**10x Genomics White Paper 1**

Title: Explore the Complexity of the Nervous System   
  
Body: This eBook from 10x Genomics examines single-cell and spatial gene expression solutions that empower neuroscientists to understand the cellular and molecular mechanisms underlying both normal function and disease states.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/explore-nervous-system-ebook)

**10x Genomics White Paper 2 (Retired)**

Title: Beyond the Surface: Uncovering the Layers of Immune Cell Complexity

Body: In this white paper from 10x Genomics learn about the challenges immunology and infectious disease researchers face due to the complex, dynamic, and heterogeneous nature of the immune system and the limitations of prevailing research tools.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/beyond-surface-uncovering-layers-immune-cell-complexity)

**10x Genomics White Paper 3 (Retired)**

Title: A New Way of Exploring Immunity: Linking Highly Multiplexed Antigen Recognition to Immune Repertoire and Phenotype

Body: This white paper from 10x Genomics demonstrates the power of the Single Cell Immune Profiling Solution with Feature Barcoding technology.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/new-way-exploring-immunity-linking-highly-multiplexed-antigen-recognition)

**10x Genomics White Paper 4**

Title: Characterization of the Tumor Microenvironment

Body: This white paper from 10x Genomics describes a project that used the Chromium Single Cell Immune Profiling Solution to investigate the cellular heterogeneity as well as the adaptive immune phenotype in the tumor microenvironment of a colorectal cancer and a squamous cell non-small cell lung carcinoma.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/characterization-tumor-microenvironment)

**10x Genomics White Paper 5 ( RETIRED )**

Title: Uncover the Full Complexity of Infectious Disease

Body: This infographic allows you to explore crucial applications of single cell and spatial technology from 10x Genomics for infectious disease research.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/uncover-full-complexity-infectious-disease)

**10x Genomics White Paper 6 ( RETIRED )**

Title: Clues to Long Lifespan Revealed by Single-Cell Transcriptomics

Body: This research shapshot from 10x Genomics describes a project that used single-cell transcriptomics to study immune systems in supercentenarians — individuals at least 110 years of age—to find clues to their incredibly long health spans.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/expansion-cytotoxic-cd4-t-cells-supercentenarians-revealed-single-cell)

**10x Genomics White Paper 7 ( RETIRED )**

Title: Multiomic Cytometry: A Vivid, Full View of the Immune System

Body: This infographic from 10x Genomics highlights how the layers of immune system complexity can be revealed with high-throughput single cell multiomic cytometry.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/multiomic-cytometry-vivid-full-view-immune-system)

**10x Genomics White Paper 8 ( RETIRED )**Title: Transcriptional Profiling of 1.3 Million Brain Cells   
  
Body: In this whitepaper from 10x Genomics learn how the Chromium Single Cell Gene Expression Solution was used in a study of the mammalian brain, one of the most complex biological systems in nature.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/transcriptional-profiling-13-million-brain-cells-chromium-single-cell-gene)

**10x Genomics White Paper 9 ( RETIRED )**Title: Illuminating the Role of the Adaptive Immune Response in Neurodegeneration  
  
Body: In this whitepaper from 10x Genomics read how researchers at Stanford University revealed immune repertoire and gene expression changes that occur in immune cells from the cerebrospinal fluid in age-related neurodegeneration, including antigen-specific clonal expansion of CD8+ T cells.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/illuminating-role-adaptive-immune-response-neurodegeneration)

**10x Genomics White Paper 10 ( RETIRED )**Title: Spatially Resolved Heterogeneity of Triple Negative Breast Cancer

Body: Download this whitepaper from 10x Genomics to learn how Visium Spatial Gene Expression can provide a better understanding of the biology within a triple negative breast cancer sample.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/spatially-resolved-heterogeneity-triple-negative-breast-cancer)

***10x Genomics White Paper 11:* ( RETIRED )**

**Title:** **The Essential Guide to Multiomic Single-Cell Immunology**

**Body:** This guide from 10x Genomics provides a comprehensive overview of multiomic single-cell immunology, including the types of studies it enables, specific tools for high-resolution multiomic immunology, how to plan an experiment, and considerations for data analysis.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/essential-guide-multiomic-single-cell-immunology).

**10x Genomics Webinar 1**

Title: Single-Cell Genomics in Cancer Immunotherapy

Body: In this on-demand webinar from 10x Genomics, Ansu Satpathy of Stanford University School of Medicine discusses single-cell genomics in in checkpoint blockade and CAR-T cell immunotherapy.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/single-cell-genomics-cancer-immunotherapy)

**10x Genomics Webinar 2 ( RETIRED )**

Title: Single-Cell Multiomics Reveals Insights into Therapeutic Resistance

Body: Join Dr. J. William Harbour, Professor and Associate Director for Basic Science at Sylvester Comprehensive Cancer Center of the University of Miami, for an on-demand webinar to learn more about his recently published research studying the evolution of uveal melanoma tumors and their microenvironments.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/using-single-cell-multiomics-reveal-new-insights-uveal-melanoma-evolution-and)

**Artel Whitepaper 1**

Title: Process Optimization for Assays: A Framework for Controlling Variability   
  
Body: This whitepaper from Artel highlights how process optimization during assay development can improve assay results beyond what can be achieved with a traditional approach. The streamlining and efficiencies that can be realized from such optimization can be significant, especially in such high-throughput operations as COVID-19 testing.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/process-optimization-assays-framework-controlling-variability-and-optimizing)

**Artel Whitepaper 2**Title: Pipette Calibration and Operator Competency Assessment Using a Dual-Dye Ratiometric Photometry System

Body: This whitepaper describes how the Artel Pipette Calibration System (PCS) helps maintain an audit-ready state of pipette calibration and operator training documentation, and increases confidence in the laboratory’s data integrity.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/single-channel-pipette-calibration-and-operator-competency-assessment-using)

**Artel Whitepaper 3**Title: A Dual-Dye Ratiometric Photometry System for Verification of Multichannel Liquid Delivery Devices

Body: This report by Artel describes a dual-dye ratiometric photometry system for verification of multichannel liquid delivery devices. Examples of selected applications and comparisons to other calibration methods are also provided.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/dual-dye-ratiometric-photometry-system-verification-multichannel-liquid)

**Artel Whitepaper 4**SARS-CoV-2 Sequencing: A GenomeWeb eCase Study Transcript

Body: This transcript is a companion piece for a GenomeWeb eCase Study in which Heather Fehling and Rob Grbac of Clinical Reference Laboratory discussed how their lab quickly developed a PCR-based COVID-19 saliva test and optimized their processes with the help of Artel's MVS technology.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/protecting-data-integrity-and-quality-assurance-times-crisis-technologies)

**Artel Whitepaper 4 [360Dx]**SARS-CoV-2 Sequencing: A GenomeWeb eCase Study Transcript

Body: This transcript is a companion piece for a GenomeWeb eCase Study in which Heather Fehling and Rob Grbac of Clinical Reference Laboratory discussed how their lab quickly developed a PCR-based COVID-19 saliva test and optimized their processes with the help of Artel's MVS technology.

Download it from the 360Dx [White Paper Channel.](https://www.360dx.com/resources/white-papers/protecting-data-integrity-and-quality-assurance-times-crisis-technologies)

**Artel Webinar 1**

Title: Protecting Data Integrity and Quality Assurance in Times of Crisis: Technologies Essential to SARS-CoV-2 Sequencing  
  
Body: In this on-demand eCase study, Heather Fehling and Rob Grbac of Clinical Reference Laboratory review how they quickly developed a PCR-based COVID-19 saliva test and then rapidly scaled from 300 samples per day to 30,000 samples per day.

Download it from GenomeWeb’s [eCase Study Videos](https://www.genomeweb.com/resources/webinars/protecting-data-integrity-and-quality-assurance-times-crisis-technologies)

**Artel Webinar 1 [360Dx]**

Title: Protecting Data Integrity and Quality Assurance in Times of Crisis: Technologies Essential to SARS-CoV-2 Sequencing  
  
Body: In this on-demand eCase study, Heather Fehling and Rob Grbac of Clinical Reference Laboratory review how they quickly developed a PCR-based COVID-19 saliva test and then rapidly scaled from 300 samples per day to 30,000 samples per day.

Download it from 360Dx’s [eCase Study Videos](https://www.360dx.com/resources/webinars/protecting-data-integrity-and-quality-assurance-times-crisis-technologies)

**Agena Bioscience White Paper 1**

Title: A SARS-CoV-2 Panel for Use on the MassARRAY System

Body: In this whitepaper from Agena Bioscience learn about a research-use-only panel for the detection of SARS-CoV-2 virus on the MassARRAY System.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/sars-cov-2-panel-ruo-high-throughput-and-robust-assay-low-limit-detection-use)

**Agena Bioscience White Paper 2**

Title: Accelerating the Future of SARS-CoV-2 Testing

Body: In this case study from Agena Bioscience, learn how ArcticDx, a specialty genetic testing lab, quickly transformed to meet the growing need for COVID-19 testing.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/accelerating-future-sars-cov-2-testing)

**Agena Bioscience GW White Paper 3**Title: Providing Resilience Against the Emergence of New SARS-CoV-2 Variants  
  
Body: This whitepaper from Agena Bioscience describes a SARS-CoV-2 testing panel that is robust against the emergence of new variants, including the recent United Kingdom and South African mutations.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/agena-bioscience-s-sars-cov-2-tests-providing-resilience-against-emergence)

**Agena Bioscience 360Dx White Paper 3**Title: Providing Resilience Against the Emergence of New SARS-CoV-2 Variants  
  
Body: This whitepaper from Agena Bioscience describes a SARS-CoV-2 testing panel that is robust against the emergence of new variants, including the recent United Kingdom and South African mutations.

Download it from 360Dx’s [White Paper Channel.](https://www.360Dx.com/resources/white-papers/agena-bioscience-s-sars-cov-2-tests-providing-resilience-against-emergence)

**Agena Bioscience GW White Paper 4**Title: SARS-CoV-2 Panel Screens for Variants of Concern

Body: This white paper from Agena reviews a SARS-CoV-2 panel that provides a high-throughput and robust alternative to next-generation sequencing (NGS) to screen for the presence of variants of concern in human samples.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/sars-cov-2-variant-panel-ruo)

**Asuragen GW White Paper 1**

Title: Analytical Validation of a Highly Sensitive CML Monitoring System Targeting BCR-ABL1 RNA

Body: In this study, Asuragen describes the analytical validation for the first FDA-cleared assay for BCR-ABL monitoring, which offers both deep sensitivity as well as a simple and scalable design to optimize workflow efficiency for any laboratory.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/analytical-validation-highly-sensitive-multiplexed-chronic-myeloid-leukemia)

**Asuragen PON White Paper 1**

Title: Analytical Validation of a Highly Sensitive CML Monitoring System Targeting BCR-ABL1 RNA

Body: In this study, Asuragen describes the analytical validation for the first FDA-cleared assay for BCR-ABL monitoring, which offers both deep sensitivity as well as a simple and scalable design to optimize workflow efficiency for any laboratory.

Download it from the Precision Oncology News [White Paper Channel.](https://www.precisiononcologynews.com/resources/white-papers/analytical-validation-highly-sensitive-multiplexed-chronic-myeloid-leukemia)

**Asuragen White Paper 2**

Title: Validation of an Assay System for the Diagnosis of Fragile X Syndrome and Carrier Screening

Body: In this poster, Asuragen describes the analytical and clinical validation of a simple and streamlined assay to accurately detect and quantify the number of CGG repeats in the FMR1 gene across all clinical categories for both diagnostic and screening applications.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/analytical-and-clinical-validation-pcrce-assay-system-diagnosis-fragile-x)

**Asuragen GW White Paper 3**

Title: BCR-ABL1 Minor Breakpoint Monitoring Using an Analytically Validated Multiplex Assay

Body: In this poster, Asuragen describes the analytical validation of a multiplex system reporting continuous BCR-ABL1:ABL1 percent ratio values via automated analysis, which offers deep sensitivity.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/bcr-abl1-minor-breakpoint-e1a2-monitoring-using-analytically-validated)

**Asuragen PON White Paper 3**

Title: BCR-ABL1 Minor Breakpoint Monitoring Using an Analytically Validated Multiplex Assay

Body: In this poster, Asuragen describes the analytical validation of a multiplex system reporting continuous BCR-ABL1:ABL1 percent ratio values via automated analysis, which offers deep sensitivity.

Download it from the Precision Oncology News [White Paper Channel.](https://www.precisiononcologynews.com/resources/white-papers/bcr-abl1-minor-breakpoint-e1a2-monitoring-using-analytically-validated)

**Asuragen White Paper 4**

Title: Detect Cancer Hotspots, SNVs, INDELs, and Gene Fusions on a Single Flow Cell  
  
Body: This white paper from Asuragen describes how the QuantideX DNA Hotspot 21 and RNA Lung Cancer Kits enable parallel detection of DNA and RNA-associated variants in a comparatively simple workflow and on widely established laboratory equipment.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/unifying-quantidex-ngs-dna-and-rna-panels-methods-detecting-cancer-hotspots)

**Asuragen White Paper 5**

Title: Analytical Validation of the QuantideX NGS DNA Hotspot 21 Kit   
  
Body: In this scientific poster by Asuragen learn how the QuantideX NGS DNA Hotspot 21 Kit enables the detection of more than 1,500 oncogenic variants in a simple and fast workflow compared to alternative commercial approaches.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/analytical-validation-quantidex-ngs-dna-hotspot-21-kit-diagnostic-ngs-system)

**Asuragen White Paper 6**

Title: Accurate and Reproducible Detection of Fusions and Exon Skipping Events with RNA-Seq   
  
Body: In this scientific poster from Asuragen learn how the QuantideX NGS RNA Lung Cancer Kit enables the highly sensitive, specific, and reproducible detection of RNA fusions and exon-skipping events from precious FFPE tumor specimens.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/accurate-and-reproducible-detection-fusions-and-exon-skipping-events-nsclc)

**Asuragen White Paper 7**

Title: A Machine-Learning Framework for Accurate Classification and Quantification of Oncogenic Variants   
  
Body: In this scientific poster from Asuragen, learn more about a machine-learning framework that correctly identifies true oncogenic variants as informed by the analysis of hundreds of samples and the querying of variant databases.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/machine-learning-framework-accurate-classification-and-quantification)

**Asuragen White Paper 8**Title: Verification of a Single-tube PCR/CE Kit for SMN1/2 Copy Number and Other Variants

Body: This poster from Asuragen describes the analytical performance of the AmplideX PCR/CE SMN1/2 Plus Kit, which evaluates exon 7 copy number of SMN1 and SMN2, and variant status of gene duplication and disease modifier markers.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/verification-single-tube-pcrce-kit-smn12-copy-number-and-variants-associated)

**Asuragen White Paper 9**Title: Multisite Evaluation of a Single-tube Assay System for Spinal Muscular Atrophy

Body: This poster from Asuragen describes a multisite evaluation of the AmplideX PCR/CE SMN1/2 Plus Kit, a one-tube PCR assay that quantifies SMN1 and SMN2 copy number and genotypes gene duplication “silent carrier” markers as well as a disease modifier variant.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/multisite-evaluation-single-tube-smn12-pcrce-assay-system-assesses-copy)

**ArcherDx White Paper 1**

Title: Sensitive Mutation Detection and Design Flexibility for FFPE Clinical Sample Types

Body: This scientific poster from ArcherDx describes a target enrichment method that performs consistently, regardless of panel size and content, which enables modularity in panel design and confidence in assay adaptability.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/anchored-multiplex-pcr-enables-sensitive-ngs-based-mutation-detection-and)

**ArcherDx White Paper 2: TEST B**

Title: Increasing the Confidence of Variant Detection in Noisy Regions

SPONSORED WHITE PAPER

[Read More](https://www.genomeweb.com/resources/white-papers/95-mdaf-modeling-noise-archer-ngs-data-base-resolution-statistically-informed)

**Arbor Biosciences White Paper 1**

Title: Targeted Pathogen Genomics Via NGS Hybridization Capture

Body: This whitepaper from Arbor Biosciences highlights hybridization capture, the most versatile technique for comprehensive, cost-effective sequencing of both viruses and bacteria in complex samples.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/targeted-pathogen-genomics-ngs-hybridization-capture)

**Arbor Biosciences White Paper 2**

Title: Chromosome Identification by Fluorescent in situ Hybridization with myTags DNA Probes

Body: This whitepaper by Arbor Biosciences presents several published applications of chromosome indexing in plants and outlines major points of consideration when undertaking new chromosome indexing projects for different species.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/chromosome-identification-fluorescent-situ-hybridization-mytags-dna-probes)

**Arbor Biosciences White Paper 3**

Title: Targeted Sequencing of SARS-COV-2: Maximizing Viral RNA Sequencing Reads

Body: This application note from Arbor Biosciences describes a targeted NGS sequencing strategy for SARS-CoV-2 that enables detection down to 10 viral genome copies in a background of 50 ng human gRNA.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/targeted-sequencing-sars-cov-2-swift-rnalibrary-kit-and-arbor-biosciences)

**Arbor Biosciences Webinar 1**

Title: Targeted NGS of SARS-CoV-2 with a Combined Strategy

Body: In this on-demand webinar Arbor Biosciences presents a targeted NGS strategy that combines RNA library prep with hybridization capture to provide full-length genome coverage from a limited number of viral genome copies in a mixed sample.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/targeted-ngs-sars-cov-2-swift-rna-arbor-biosciences-mybaits-panel)

**Bio-Techne GW White Paper 1*:***

Title: A Clear and Easy Guide to ELISAs

Body: Download this ebook from Bio-Techne for a deep-dive look at the different types of ELISAs, advantages and disadvantages of each, and why you would want to use an ELISA over other techniques.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/elisa-guide-clear-and-easy-guide-elisas).

**Bio-Techne 360Dx White Paper** 1

Title: A Clear and Easy Guide to ELISAs

Body: Download this ebook from Bio-Techne for a deep-dive look at the different types of ELISAs, advantages and disadvantages of each, and why you would want to use an ELISA over other techniques.

Download it from the [360Dx White Paper Channel](https://www.360dx.com/resources/white-papers/elisa-guide-clear-and-easy-guide-elisas)

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***Bio-Techne GW White Paper 2:***

Title: A Clear and Easy Guide to Luminex Multiplex Immunoassays

Body: Download this guide from Bio-Techne for a detailed overview of the performance capabilities of Luminex multiplex immunoassays. The guide includes a detailed Q&A section with answers to common questions.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/luminex-assay-users-guide).

***Bio-Techne 360Dx White Paper 2:***

Title: A Clear and Easy Guide to Luminex Multiplex Immunoassays

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Download it from the [360Dx White Paper Channel](https://www.360dx.com/resources/white-papers/luminex-assay-users-guide).

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***Bio-Techne GW White Paper 3:***

Title: Learn the Four Fundamentals of Immunoassay Quality

Body: Download this white paper from Bio-Techne to learn about four key elements that form the foundation of immunoassay quality and reproducibility.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/4-fundamentals-immunoassay-quality).

***Bio-Techne 360Dx White Paper 3:***

Title: Learn the Four Fundamentals of Immunoassay Quality

Body: Download this white paper from Bio-Techne to learn about four core elements that form the foundation of immunoassay quality and reproducibility.

Download it from the [360Dx White Paper Channel](https://www.360dx.com/resources/white-papers/4-fundamentals-immunoassay-quality).

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***Bio-Techne GW White Paper 4:***

Title: Avoid False Positive ELISA Data

Body: This application note from Bio-Techne explains how the company’s blocking reagents help prevent false positive data in ELISA results.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/avoid-false-positive-elisa-data).

***Bio-Techne 360Dx White Paper 4:***

Title: Avoid False Positive ELISA Data

Body: This application note from Bio-Techne explains how the company’s blocking reagents help prevent false positive data in ELISA results.

Download it from the [360Dx White Paper Channel](https://www.360dx.com/resources/white-papers/avoid-false-positive-elisa-data).

**BAG Diagnostics White Paper 1**

Title: A Simple and Rapid PCR Assay for Rhesus Weak D Variants

Body: This poster from BAG Diagnostics describes an evaluation of the Rhesus Weak D-TYPE 1-2-3 Q kit, a simple and rapid PCR-based confirmatory typing kit for common Rhesus Weak D variants.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/performance-data-real-rime-assay-fast-and-gel-free-detection-rhesus-weak-d)

**BAG Diagnostics 360Dx White Paper 1**

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Body: This poster from BAG Diagnostics describes an evaluation of the Rhesus Weak D-TYPE 1-2-3 Q kit, a simple and rapid PCR-based confirmatory typing kit for common Rhesus Weak D variants.

Download it from 360Dx’s [White Paper Channel](https://www.360dx.com/resources/white-papers/performance-data-real-rime-assay-fast-and-gel-free-detection-rhesus-weak-d)

**BAG Diagnostics White Paper 2**

Title: Reliable Real-Time PCR for HLA-B\*27 Directly from Fresh Blood

Body: This white paper from BAG Diagnostics describes a new reagent called Blood Booster that enables reliable real-time PCR amplification of HLA-B\*27, even from fresh and difficult blood samples. This reagent will be used in an extended product line for relevant human genetic markers.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/performance-data-fastq-b27-direct-kit-and-effect-blood-booster-reagent)

URL: <https://gw-resources.tradepub.com/c/pubRD.mpl?secure=1&sr=pp&_t=pp:&qf=w_defa778&ch=>

**BAG Diagnostics 360Dx White Paper 2**

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Download it from 360Dx’s [White Paper Channel](https://www.360dx.com/resources/white-papers/performance-data-fastq-b27-direct-kit-and-effect-blood-booster-reagent)

**BioLegend White Paper 1**Title: Expand Bulk Sequencing Analysis with BioLegend and Illumina

Body: Download this application note from BioLegend to learn more about the utility of bulk epitope and nucleic acid sequencing (BEN-seq) and see how the technique was used to detect 280 proteins and measure the Th1 response on both unstimulated and stimulated cells.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/expand-bulk-sequencing-analysis-biolegend-and-illumina)

**BioLegend Webinar 1**

Title: Single-Cell Multiomics Resolves a Sharp Disease-State Shift between Mild and Moderate COVID-19  
  
Body: Watch this on-demand webinar from BioLegend to hear about an integrated analysis of clinical measurements, immune cells, and plasma multiomics that identified a shift between mild and moderate disease.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/webinar-single-cell-multiomics-resolves-sharp-disease-state-shift-between-mild)

**Beckman Coulter White Paper 1**

Title: Miniaturization and Rapid Processing of TXTL Reactions Using Acoustic Liquid Handling

Body: In this application note from Beckman Coulter learn how acoustic liquid handling can optimize experiments using cell-free transcription-translation (TXTL) systems for synthetic biology.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/miniaturization-and-rapid-processing-txtl-reactions-using-acoustic-liquid)

**Beckman Coulter White Paper 2**

Title: Miniaturized Multi-Piece DNA Assembly Using the Echo 525 Liquid Handler

Body: In this application note from Beckman Coulter, learn how the integration of an Echo 525 Liquid Handler into a DNA construction pipeline can allow for significant volume reductions as well as workflow enhancements with both complex and simple plasmid designs.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/miniaturized-multi-piece-dna-assembly-using-echo-525-liquid-handler)

**Beckman Coulter White Paper 3**

Title: Modular DNA Assembly of PIK3CA Using Acoustic Liquid Transfer in Nanoliter Volumes

Body: This whitepaper from Beckman Coulter demonstrates how the Echo Liquid Handler enables lower-cost methods and workflows to produce high-quality synthetic DNA constructs, which affords the scientist a broader biological landscape to interrogate.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/modular-dna-assembly-pik3ca-using-acoustic-liquid-transfer-nanoliter-volumes)

**Beckman Coulter White Paper 4**

Title: Miniaturization of NGS Library Prep for Multiplexed Whole Genome Sequencing and Microbiome Applications

Body: This whitepaper from Beckman Coulter details a method to miniaturize reaction volumes utilized in the Illumina Nextera XT DNA library kit, thereby reducing the overall cost per reaction while maintaining equivalent data to the standard protocol.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/effective-miniaturization-illumina-nextera-xt-library-prep-multiplexed-whole)

**Beckman Coulter White Paper 5 – ( Retired )**

Title: Automation of PCR Reaction Setup

Body: This technical note by Beckman Coulter guides users through the process of setting up a PCR reaction for 1 to 192 samples in 96-well plates with any combination of master mix, primers, and samples.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/pcr-reaction-setup-biomek-4000-technical-bulletin)

***correct link:*** [***https://www.genomeweb.com/resources/white-papers/automation-pcr-reaction-setup-application-using-biomek-4000-laboratory***](https://www.genomeweb.com/resources/white-papers/automation-pcr-reaction-setup-application-using-biomek-4000-laboratory)

**Beckman Coulter White Paper 6 – ( Retired )**

Title: High-throughput qPCR and RT-qPCR Workflows Enabled by Acoustic Liquid Handling

Body: This application note by Beckman Coulter outlines the benefits of automated reaction setup for high-throughput qPCR applications using the Echo 525 acoustic liquid handler.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/high-throughput-qpcr-and-rt-qpcr-workflows-enabled-beckman-coulter-echo)

**Beckman Coulter White Paper 7 – ( Retired )**

Title: Reproducible and Efficient Automation of PCR Reaction Setup and Purification

Body: This technical note by Beckman Coulter highlights the Biomek 4000 Laboratory Automation Workstation, which has been used to demonstrate highly reproducible real-time amplification after automated reaction setup.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/pcr-reaction-setup-and-ampure-xp-biomek-4000-technical-bulletin)

***correct link: https://www.genomeweb.com/resources/white-papers/pcr-reaction-setup-and-ampure-xp-application***

**Beckman Coulter White Paper 8**

Title: Viral Inactivation Study of SARS-CoV-2 in Lysis Buffer

Body: This technical note describes a study in which lysis buffer and a PBS control buffer were incubated with SARS-COV-2 virus under different temperature and time conditions.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/viral-inactivation-study-sars-cov-2-lysis-buffer-lbf)

**Beckman Coulter White Paper 9**

Title: Characterization of a New Viral RNA Extraction Kit

Body: This white paper from Beckman Coulter demonstrates that the RNAdvance Viral XP RNA extraction kit is a viable alternative to help alleviate a critical shortage in viral RNA extraction kits for research use.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/characterization-beckman-coulters-rnadvance-viral-xp-rna-extraction-kit-using)

**Beckman Coulter White Paper 10**

Title: Miami Cancer Institute Conducted Virology Research Using RNAdvance Viral

Body: In this customer spotlight, Beckman Coulter Life Sciences highlights Weiming Shen of the Miami Cancer Institute, who recently completed a validation study of RNAdvance Viral reagents for use in virology research.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/miami-cancer-institute-conducted-virology-research-using-rnadvance-viral)

**Bio Rad White Paper 1**

Title: Expanded Droplet Digital PCR Multiplexing Capability Using Two Different Strategies

Body: This whitepaper from Bio-Rad Laboratories describes how Droplet Digital PCR enables easy multiplexing via two approaches: amplitude-based multiplexing and probe-mixing multiplexing.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/expanded-droplet-digital-pcr-multiplexing-capability-using-two-different)

**Biotech Support Group White Paper 7 ( Retired )**

Title: Hemoglobin Removal: A Range of Depletion Strategies and Their Successful Uses

Body: This white paper describes Biotech Support Group products for hemoglobin removal in a variety of separation strategies and formats. Sample types include erythrocyte lysates, hemolyzed serum, whole blood, and dried blood cards.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/hemoglobin-removal-whitepaper-describes-range-depletion-strategies-and-their)

**Biotech Support Group White Paper 8 ( Retired )**

Title: Categorization of Blood-Based Biomarkers

Body: This ebook describes new strategies to support proteomic analysis of blood to support precision medicine, including Biotech Support Group products and methods that can help proteomic investigators explore all blood compartments.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/categorization-blood-based-biomarkers)

**Biotech Support Group White Paper 9 ( Retired )**Title: Proteomics for Developing Biomarkers of the Innate Immune Response in SARS-CoV-2

Body: This whitepaper describes how Biotech Support Group's products and methods can be used to characterize the innate immune response from peripheral blood.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/re-imagining-proteomics-developing-precision-medicine-biomarkers-innate)

**Bionano Genomics White Paper 1**

Title: Next-Generation Cytogenetics Resolves Structural Variants in Heterogeneous Cancer Samples

Body: This whitepaper from Bionano Genomics highlights technology that allows for the highly sensitive detection of all structural variant types present at low allele fraction in heterogenous cancer samples.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/next-generation-cytogenetics-bionano-whole-genome-mapping-resolves-structural)

**Bionano Genomics White Paper 2**

Title: The 'Dark Matter' of Cancer Genomics: Revealing Undetected Structural Variants in Leukemia

Body: This white paper is based on a webinar presentation by Dr. James Broach of the Penn State College of Medicine. He discussed methods for capturing a comprehensive snapshot of all variants — both point mutations and structural variants — present in a tumor sample in order to gain insights about the genetic and genomic basis of individual cancers.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/dark-matter-cancer-genomics-revealing-undetected-structural-variants-leukemia)

**Bionano Genomics White Paper 3**

Title: Bionano Whole Genome Imaging Identifies Large Structural Variants in Genetic Disorders

Body: This white paper explains how Bionano whole genome imaging is able to detect all structural variant types with high sensitivity and specificity, and examples of cancer and genetic disease are shown.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/bionano-whole-genome-imaging-identifies-large-structural-variants-genetic)

**Bionano Genomics White Paper 4**

Title: Highly Sensitive Structural Variant Detection for Medical Genetics: A Comparison to the Standard of Care

Body: This white paper is based on a webinar presentation by Alexander Hoischen of Radboud University Medical Center, in which he discussed the promise of optical mapping technology for medical genetics.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/highly-sensitive-structural-variant-detection-medical-genetics-comparison)

**Bionano Genomics White Paper 5**

Title: Improved De Novo Genome Assemblies

Body: This white paper explains how Bionano whole genome imaging can improve fragmented draft assemblies and build the highest-quality assemblies containing accurate long-range information.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/generating-accurate-and-contiguous-de-novo-genome-assemblies-using-hybrid)

**Biotech Support Group White Paper 1 ( Retired )**

Hed: A Proteomic Liquid Biopsy to Measure Stromal Conditioning in Cancer

This white paper summarizes a study from Biotech Support Group describing the Stroma Liquid Biopsy, a pattern of serum proteins that is consistent with the presence of cancer.

**Download it from GenomeWeb’s** [**White Paper Channel**](https://www.genomeweb.com/resources/white-papers/stroma-liquid-biopsy-biomarkers-dysregulation-serum-proteome-cancer)

**Biotech Support Group White Paper 3 ( Retired )**

Hed: Lipid Removal in Serum and Bile Proteomics

Body: This white paper from Biotech Support Group describes the Cleanascite lipid removal reagent, which does not have significant protein binding, making its selectivity profile for lipids ideal for biology research.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/lipid-removal-sample-prep)

**Biotech Support Group White Paper 6**  **( Retired )**

Title: Tackling the Challenges of Serum Proteomics    
   
Body: This whitepaper from Biotech Support Group outlines the serum proteome bias characteristics of AlbuVoid & NuGel Protein A, alone or in serial combination, providing options to enrich or deplete one or more sub-proteomes, depending on the goal of the investigation. 

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/albuvoidtm-plus-albusorbtm-plus-application-report-evaluating-different)

**Cytiva White Paper 1**Title: Investigating Cell-Free DNA in Liquid Biopsy

Body: This whitepaper from Cytiva discusses the challenges and opportunities of measuring cfDNA from liquid samples.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/investigating-cell-free-dna-liquid-biopsy)

**Cytiva White Paper 2**Title: Best Practices for Successful PCR

Body: This whitepaper from Cytiva discusses best practices for designing and implementing PCR assays to avoid false positives and other challenges.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/best-practices-successful-pcr)

**Cytiva White Paper 3**Title: Third-Generation Sequencing and the Evolution of NGS

Body: Download this whitepaper from Cytiva to learn how third-generation (long-read) sequencing is providing insights into obscure genomic regions unreachable by existing NGS methods.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/third-generation-sequencing-and-evolution-ngs)

**Combinati White Paper 1**Title: Digital PCR Wastewater Surveillance: Detection of SARS-CoV-2 Alongside Human Fecal and Process Controls

Body: This white paper from Combinati demonstrates the performance of a 4-plex assay on an emulsion-free digital PCR platform that incorporates human fecal and process controls, which allow for normalization and recovery efficiency to be calculated without additional reactions.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/digital-pcr-wastewater-surveillance-detection-sars-cov-2-alongside-human)

**Combinati White Paper 2**Title: Emulsion-free Digital PCR Measurement of Wastewater-Related Targets

Body: In this whitepaper by Combinati learn how wastewater-based epidemiology enables tracking of biomarkers for specific pathogens to monitor for disease outbreak and spread.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/emulsion-free-digital-pcr-measurement-wastewater-related-targets-using-sars)

**Carterra White Paper 1**

Title: Understanding a Therapeutic Antibody’s Mechanism of Action   
   
Body: This white paper by Caterra outlines how high-throughput surface plasmon resonance can assist in the quest for successful next-generation therapeutic antibodies.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/discovering-antibodys-therapeutic-fingerprint)

**Carterra White Paper 2**

Title: Accelerating Biotherapeutic Discovery   
   
Body: This white paper by Caterra discusses the benefits of using large antibody panels for screening and interrogating the epitope diversity of the whole panel in an early stage to accelerate discovery.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/accelerating-biotherapeutic-discovery)

**Carterra White Paper 3**

Title: Elucidate Mechanisms of Action of Antibodies   
   
Body: This application note from Carterra demonstrates how high-throughput surface plasmon resonance facilitates the rapid assessment of an antibody library’s epitopic diversity with minimal sample requirements.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/multi-parameter-epitope-centric-data-used-elucidate-mechanisms-action)

**Carterra White Paper 4**

Title: High-Throughput SPR Kinetics

Body: This white paper from Carterra highlights a tool that can generate high-quality kinetic data for monoclonal antibodies from a large panel of clones rapidly and with minimal sample consumption.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/high-throughput-spr-kinetics)

**Carterra White Paper 5**

Title: Inform the Discovery of Therapeutic Antibody Cocktails

Body: This white paper from Carterra explains how researchers can survey the entire epitope repertoire of monoclonal antibodies to make better-informed decisions about which mAbs to combine in a therapeutic cocktail.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/understanding-epitope-coverage-can-guide-discovery-therapeutic-antibody)

**Carterra White Paper 6**

Title: Generating High Quality Kinetic Data from Crude Periplasmic Extracts Using High Throughput SPR  
  
Body: This white paper from Carterra demonstrates how high-throughput surface plasmon resonance enables in-line enrichment of crude antibodies available in low titers to enhance assay sensitivity relative to other methods.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/generating-high-quality-kinetic-data-crude-periplasmic-extracts-using-high)

**Congenica Whitepaper 1**Title: Ending an 8 Year Odyssey: Delivering a Diagnosis in 20 Days

Body: This whitepaper from Congenica describes a case study in which the company’s clinical decision support platform helped diagnose an inherited genetic disorder after other approaches failed.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/ending-8-year-odyssey-delivering-diagnosis-20-days)

**Congenica Whitepaper 2**Title: From Data to Diagnosis: Delivering Results on a National Scale with Genomics England

Body: This whitepaper highlights how the Congenica platform has allowed Genomics England to process 2,700 whole genomes per week and improved diagnostic yield for the 100,000 Genomes Project by 50 percent.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/data-diagnosis-delivering-results-national-scale-genomics-england)

**Congenica Whitepaper 3**Title: Expediting an Accurate Diagnosis through Streamlined Clinical Workflows

Body: This whitepaper explains how Congenica’s intuitive inheritance filtering workflow facilitates fast and accurate identification of causal variants for genetic disorders.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/expediting-accurate-diagnosis-through-streamlined-clinical-workflows)

**Congenica Whitepaper 4**Title: A New CNV Calling Tool for Exomes

Body: This whitepaper from Congenica describes the development, validation, and analytical performance of a newly developed copy-number variant (CNV) calling module released as part of the Congenica clinical decision support platform.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/congenica-cnv-calling-exomes-whitepaper)

**Congenica Whitepaper 5**Title: Comparison of Splice Site Finder Algorithms

Body: This whitepaper presents a performance comparison of Congenica Splice Site Finder (CSSF), an algorithm that determines the splicing functionality of a given DNA sequence, against an older algorithm, SSFL.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/congenica-splice-site-finder-white-paper)

**Congenica Whitepaper 6**Title: Five-Minute Diagnosis of a Previously Unsolved Case

Body: This whitepaper describes how Congenica’s annotation and filtering features identified the causal variant in a developmental disorder case that previous whole-genome sequencing analysis was unable to solve.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/congenica-enables-five-minute-diagnosis-previously-unsolved-case)

**Congenica White Paper 7**Title: Increase Diagnostic Yield with Class-Leading Variant Prioritization

Body: This white paper describes Exomiser, a variant prioritization tool that enables geneticists to make faster, more accurate diagnoses and achieve a consistently higher diagnostic yield than industry averages.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/increase-diagnostic-yield-class-leading-variant-prioritization)

**Congenica White Paper 8**Title: Analyze, Interpret and Report NGS Data Faster than Ever Before

Body: This white paper describes an analysis of more than 2,000 complex cases interpreted using the Congenica decision support platform, which showed that complex clinical analyses that used to take 20 hours to interpret and report can now be completed in an average of 30 minutes.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/analyze-interpret-and-report-ngs-data-faster-ever)

***Congenica Webinar 1:***

**Title:** **Enabling Genomic Medicine: Analysis at Scale**

**Body:** This on-demand webinar from Congenica outlines a new technology that allows health professionals to interpret genomic data faster and with greater accuracy than ever before.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/enabling-genomic-medicine-analysis-scale)

***Congenica Webinar 2:***

**Title:** **The Case for Automated Variant Classification for Rare Disease Cases**

**Body:** In this on-demand webinar, Helen Savage, Lead Clinical Scientist at Congenica, discusses new advances in automated variant classification for rare diseases.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/role-automated-variant-classification-clinical-rare-disease-reporting)

**Discovery Life Sciences White Paper 1**

Title: HPV-Positive Oropharyngeal Squamous Cell Carcinomas Show a Marked Increase in PDL1 Expression Relative to Viral Negative Tumors  
  
Body: In this poster from Discovery Life Sciences, learn how increased PDL1 expression in HPV-positive oropharyngeal squamous cell carcinoma suggests that such tumors may be highly sensitive to checkpoint inhibitor therapy.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/human-papillomavirus-positive-oropharyngeal-squamous-cell-carcinomas-show)

**Discovery Life Sciences White Paper 2**

Title: Checkpoint Inhibitor Therapy Utilization and PD1/PDL1 Expression Across a Global Clinical Network  
  
Body: In this whitepaper from Discovery Life Sciences learn how to understand patient responses to therapies as well as the mechanisms of action, including expression patterns and functionality, within the tumor microenvironment.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/checkpoint-inhibitor-therapy-utilization-and-pd1pdl1-expression-across-global)

**Discovery Life Sciences White Paper 3**

Title: Case study: Custom Sourcing of Normal Isolated Immune Cells

Body: This whitepaper from Discovery Life Sciences describes a case study in which a researcher investigating interactions of novel therapies within the microenvironments of multiple hematological malignancies needed custom sourcing of matched monocytes and pan T-cells from 30 patients.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/normal-isolated-immune-cells)

**Discovery Life Sciences White Paper 4**

Title: Case Study: Development of the Prototype Assay that Advanced Development of Pembrolizumab

Body: This whitepaper from Discovery Life Sciences describes the development of an immunohistochemical assay with wide dynamic range, high precision and reproducible results, laying the foundation for the successful 22C3 PD-L1 companion diagnostic assay widely utilized today to select patients eligible for treatment with the anti-PD-1 immunotherapy pembrolizumab.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/ihc-assay-advanced-development-pembrolizumab)

**Discovery Life Sciences White Paper 5**

Title: Optimized Methods for Sequencing RNA From FFPE Samples

Body: In this white paper, Discovery Life Sciences shares important factors to consider when obtaining and sequencing RNA from FFPE tissues, including details of a method for dual extraction of RNA and DNA from FFPE tissues.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/optimized-methods-sequencing-rna-ffpe-samples)

**Discovery Life Sciences Webinar 1**

Title: Utilization of a Single Strategic Partner for Biospecimens and Genomic Services

Body: In this on-demand webinar from Discovery Life Sciences, learn about significantly improved methods for FFPE RNA extraction and whole-exome sequencing with deep coverage of solid tumor variants.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/utilization-single-strategic-partner-biospecimens-and-genomic-services)

**DNAnexus White Paper 1**

Title: 10 Tips to Scale Your Diagnostics Business and Grow Your Test Portfolio Globally

Body: This white paper from DNAnexus valuable resource for clinical diagnostics leaders as they plan for future growth, providing critical operational and compliance recommendations in order to scale their business. This includes: reducing time to market for new tests, improving pipeline optimization and turnaround time, ensuring quality and uniformity, mitigating security and compliance risk, and more.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/10-tips-scale-your-diagnostics-business-and-grow-your-test-portfolio-globally)

**DNAnexus White Paper 2**

Title: 4 Critical Strategies for Clinical Diagnostics Leaders

Body: In this white paper from DNAnexus learn four best practices useful for clinical diagnostics leaders.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/4-critical-strategies-clinical-diagnostics-leaders)

**DNANexus Whitepaper 3**

Title: Working with UK Biobank Data: A Research Guide

Body: This white paper from DNANexus helps research teams evaluate whether they have the right informatics strategy to gain insights quickly from the UK Biobank dataset.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/working-uk-biobank-data-research-guide)

**DNANexus Whitepaper 4**

Title: A Pharma’s Guide to Working with UK Biobank Data

Body: In this whitepaper from DNANexus learn how a top 20 pharmaceutical company democratized the UK Biobank data to speed time-to-insights.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/pharma-s-guide-working-uk-biobank-data)

**DNANexus Whitepaper 5**

Title: 10 Tips to Scale Your Diagnostics Business & Grow Your Test Portfolio Globally

Body: This whitepaper from DNAnexus presents 10 tips for diagnostics labs implementing NGS testing to scale up their businesses and grow their test portfolios.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/10-tips-scale-scale-your-diagnostics-business-grow-your-test-portfolio)

**DNANexus Whitepaper 6**

Title: Build vs. Buy? Six Questions to Consider when Evaluating Clinical Diagnostics Informatics Solutions

Body: This whitepaper from DNAnexus highlights the advantages and disadvantages of either improving, augmenting or entirely replacing your existing clinical diagnostics informatics solutions.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/build-vs-buy-six-questions-consider-when-evaluating-clinical-diagnostics)

***Dovetail White Paper 1***

**Title:** Improved Coverage Uniformity for Chromatin Capture

**Body:** This application note from Dovetail Genomics introduces Omni-C, a sequence-independent, endonuclease-based proximity-ligation assay that addresses the limitations of Hi-C approaches based on restriction enzymes.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/domains-snps-multi-resolution-view-genome)

***Dovetail Webinar 1***

**Title:** Breaking the Hi-C Resolution Barrier

**Body:** This on-demand webinar describes the Micro-C kit from Dovetail Genomics, which uses MNase to enable high-resolution chromatin conformation.

Download it from GenomeWeb’s [Webinar Library.](https://www.genomeweb.com/resources/webinars/breaking-hi-c-resolution-barrier)

***Dovetail Webinar 2***

**Title:** Linking Sequence Variation to Chromatin Dynamics through Genome Topology

**Body:** This on-demand webinar from Dovetail Genomics explains why integrating conformation data with genotyping data can provide a more complete view of variants.

Download it from GenomeWeb’s [Webinar Library.](https://www.genomeweb.com/resources/webinars/genotype-phenotype-linking-sequence-variation-chromatin-dynamics-through-genome)

***Dovetail Webinar 3***

**Title:** Genome Conformation Offers an Enhanced View of the Regulatory Landscape

**Body:** This on-demand webinar from Dovetail Genomics explains the role of genome conformation in gene regulation and explains why topological interactions paint a more complete picture of gene regulation.

Download it from GenomeWeb’s [Webinar Library.](https://www.genomeweb.com/resources/webinars/life-after-chip-seq-genome-conformation-enhances-our-view-regulatory-landscape)

***Dovetail White Paper 2***

**Title:** Probing Protein-Directed Chromatin Architecture by Combining ChIP and Hi-C

**Body:** This technical note describes the Dovetail HiChIP MNase Kit, which combines the benefits of ChIP-seq with Hi-C, enabling researchers to query protein-directed chromatin conformation mediated by specific proteins of interest.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/probing-protein-directed-chromatin-architecture-using-dovetail-hichip-assays)

***Dovetail White Paper 3***

**Title:** Uncovering Local Genome Architecture in Regions of Interest

**Body:** This application note from Dovetail Genomics explores whether the overall sequencing costs for genome-wide conformational studies can be reduced by combining targeted enrichment with Omni-C chemistry.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/targeted-hi-c-uncovering-local-genome-architecture-regions-interest)

***Dovetail White Paper 4***

**Title:** Genome Conformation Profiling from as few as 1,000 Cells

**Body:** This application note from Dovetail Genomics demonstrates the use of the Omni-C Kit, which enables genome conformation profiling with ultra-low input cell counts as low as 1,000 cells.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/genome-conformation-profiling-few-1000-cells)

***Dovetail White Paper 5***

**Title:** Improved Read Support to Study Chromatin Topology

**Body:** This technical note compares the ultra-high-resolution chromatin conformation information generated by Dovetail Micro-C to restriction enzyme-based Hi-C data and highlights its nucleosome-resolution capabilities.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/dovetail-micro-c-assay-improved-read-support-topological-features)

***Dovetail White Paper 6***

**Title:** The Power of Uniform Coverage in a Restriction Enzyme Free Hi-C Kit

**Body:** This white paper presents data showcasing the Dovetail Omni-C Kit, which increases the genomic coverage of a proximity-ligation assay, thereby expanding the efficiency of each sequencing run by covering more of the genome.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/omni-c-technology-power-uniform-coverage-restriction-enzyme-free-hi-c-kit)

**GE Healthcare White Paper 1**

Title: Delivering Precision Health: The Role of Molecular Diagnostics  
  
Body: In recent years there has been an unmistakable trend towards precision health, a broad approach that uses innovations in technology, diagnostics, and bioinformatics to enhance disease prevention, diagnosis, treatment, and monitoring. This white paper outlines the role that molecular diagnostics plays in high-precision approaches to oncology and infectious diseases - not just the causes, but also the treatments, controls, and side effects.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/delivering-precision-health-role-molecular-diagnostics)

**Glen Research White Paper 1 ( Retired )**

Title: Oligonucleotide Deprotection Guide

Body: Deprotection is an important step in the oligonucleotide synthesis workflow. This guide by Glen Research outlines considerations in choosing the optimal deprotection strategy, as well as the variety of options available for deprotection of oligonucleotides.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/oligonucleotide-deprotection-guide)

**Glen Research White Paper 2 ( Retired )**

Title: Electrochemical Detection of Nucleic Acids

Body: Download this note from Glen Research for an overview of electrochemical probes, which can be used for the detection of single-base mismatches, DNA methylation, important analytes, abasic sites, and DNA damage.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/electrochemical-detection-nucleic-acids)

**Glen Research Whitepaper 3 ( Retired )**

Title: Epigenetics & DNA Methylation  
  
Body: This whitepaper from Glen Research provides some background on epigenetic DNA modifications and an overview of recent research that leverages the epigenetic 5-methylcytosine modification in a biosensor to detect DNA methyltransferase (DNMT) activity in tumor cells.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/epigenetics-dna-methylation)

**Hera Biolabs White Paper 1**

Title: The Clean Alternative to Gene Editing in Drug Discovery  
  
Body: This white paper from Hera Biolabs introduces Cas-CLOVER gene editing technology, which is a dimeric guide system, free of detectable off-targets and licensing impediments, and “the clean alternative to CRISPR/Cas9.”

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/cas-clover-clean-alternative-crisprcas9-gene-editing-drug-discovery-and)

**Horizon Discovery Webinar 1**

Title: High-Throughput Genome-Wide RNAi Screens

Register for this webinar to hear Stephen Brown from the University of Sheffield provide an overview of high-throughput RNAi screening from the perspective of a dedicated RNAi screening facility.

[Register Here](https://event.on24.com/wcc/r/2137668/E7F025B48FCF67431EA9B0523E668512)

**Helmer Scientific White Paper 1**

Title: Demystifying the Medical-Grade Refrigerator

Sponsored Application Note

[Read More](https://www.genomeweb.com/resources/white-papers/demystifying-medical-grade-refrigerator)

**Helmer Scientific White Paper 2**

Title: Achieve Optimal Temperature Management While Minimizing Energy Consumption

Sponsored Whitepaper

[Read More](https://www.genomeweb.com/resources/white-papers/gx-solutions-energy-efficiency)

**Helmer Scientific White Paper 3**

Title: Three Key Temperature Management Factors You Need to Consider for Your Lab

Sponsored eBook

[Read More](https://www.genomeweb.com/resources/white-papers/gx-solutions-cold-storage)

***correct link: https://www.genomeweb.com/resources/white-papers/gx-solutions-first-professional-medical-grade-refrigerators***

**Helmer Scientific White Paper 4**

Title: Managing Noise in Clinical Environments

Sponsored Whitepaper

[Read More](https://www.genomeweb.com/resources/white-papers/gx-solutions-noise-reduction)

**Helmer Scientific White Paper 5**

Title: New Technology Advances the Performance of Medical-Grade Cold Storage

Sponsored Whitepaper

[Read More](https://www.genomeweb.com/resources/white-papers/gx-solutions-opticool-technology)

***correct link:*** [***https://www.genomeweb.com/resources/white-papers/opticool-cooling-system-helmer-scientific-gx-cold-storage-solutions***](https://www.genomeweb.com/resources/white-papers/opticool-cooling-system-helmer-scientific-gx-cold-storage-solutions)

**Helmer Scientific White Paper 8**

Title: Best Practices Guide for Selecting Laboratory Refrigerators

Sponsored Whitepaper

[Read More](https://www.genomeweb.com/resources/white-papers/best-practices-guide-selecting-laboratory-refrigerators)

**Helmer Scientific White Paper 9**

Title: Reducing the Risk of Service Costs for Critical Lab Equipment

Body: This article from Helmer Scientific evaluates the financial impact of two ultra-low freezer failure modes including compressor failures and freezer warm-ups. It also provides considerations for choosing reliable ultra-low freezer designs that can help reduce these risks.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/ultra-low-freezer-design-reducing-risk-service-costs)

**Helmer Scientific White Paper 10**

Title: Impact of Manual Defrost vs. Auto Defrost Freezers on Sample Temperature

Body: This study from Helmer Scientific evaluates the performance of two defrosting technologies by testing the impact of sample temperature variability during routine door openings and during the auto-defrost process.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/impact-manual-defrost-vs-auto-defrost-freezers-sample-temperature)

**Helmer Scientific Webinar 1**

Title: Solutions for a Quiet Work Environment

Body: Watch this video from Helmer Scientific to learn more about the benefits of reducing noise in a healthcare environment.

Download it from GenomeWeb’s [Webinar Library](https://www.360dx.com/resources/webinars/gx-solutions-quiet-work-environment)

**Helmer Scientific Webinar 2**

Title: GX Solutions and Energy Savings

Body: Watch this video from Helmer Scientific to learn about the impact of energy efficiency on cost of ownership and how facilities can save money and support sustainability with GX Solutions.

Download it from GenomeWeb’s [Webinar Library](https://www.360dx.com/resources/webinars/gx-solutions-and-energy-savings)

***HTG GW White Paper 1 ( RETIRED )***

**Title:** Robust Signatures for Characterizing the Tumor Microenvironment in FFPE Samples

**Body:** This white paper describes the development and verification of immune, stroma, and tumor microenvironment signatures built upon the HTG EdgeSeq RUO Precision ImmunoOncology Panel.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/development-and-verification-htg-edgeseq-reveal-immune-stroma-and-tme)

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***HTG White Paper 2 ( RETIRED )***

**Title:** Fast Gene Expression Profiling with an Integrated Web-Based Analysis Pipeline

**Body:** This whitepaper compares the performance of the HTG EdgeSeq Oncology Biomarker and Precision Immuno-Oncology gene expression profiling panels to RNA-seq, finding that it requires less sample input than RNA-seq and has a faster workflow.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/method-comparison-between-rna-seq-and-htg-edgeseq-platform)

***HTG White Paper 3 ( RETIRED )***

**Title:** Whole-Transcriptome Panel Using Extraction-Free Technology

**Body:** This white paper introduces a prototype HTG EdgeSeq panel that covers the entire human transcriptome and still retains the advantages of smaller targeted panels.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/proof-concept-whole-transcriptome-panel-using-htg-edgeseq-technology)

**IDT White Paper 1 – (Retired )**Title: Improved Coverage Uniformity in Targeted NGS

Body: This case study from IDT outlines how customizable next-generation sequencing target capture panels decrease sample dropout, increase coverage uniformity, and lower turnaround time for maximum flexibility and performance.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/improved-coverage-uniformity-xgen-lockdown-panels)

**IDT GW White Paper 2 ( Retired ) Use this instead** (Isoplexis TT GW White Paper 2)Title: Biomarker Discovery Research: Cancer Molecular Profiling

Body: This application note from IDT presents a workflow for sensitive and accurate detection of low-frequency variants.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/biomarker-discovery-research-cancer-molecular-profiling)

**IDT PON White Paper 2 ( Retired )**Title: Biomarker Discovery Research: Cancer Molecular Profiling

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Download it from the Precision Oncology News [White Paper Channel.](https://www.precisiononcologynews.com/resources/white-papers/biomarker-discovery-research-cancer-molecular-profiling)

**IDT GW White Paper 3 ( Retired ) Use this instead** (Isoplexis TT GW Webinar 1)Title: Combining NGS Technologies for Biomarker Identification and Confirmation Research

Body: This application note from IDT describes two high-performing targeted NGS approaches to maximize the ability to identify and confirm germline and somatic mutations.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/combining-ngs-technologies-biomarker-identification-and-confirmation-research)

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Download it from Precision Oncology News [White Paper Channel.](https://www.precisiononcologynews.com/resources/white-papers/combining-ngs-technologies-biomarker-identification-and-confirmation-research)

**Roche White Paper 2**

Title: Compatibility of Liquid Biopsy Assays on Multiple Sequencing Platforms  
  
Body: This white paper describes a study that compared the performance of three AVENIO ctDNA assays ─Targeted, Expanded, and Surveillance ─ across two Illumina sequencing platforms: the HiSeq 4000 and 2500 systems.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/compatibility-liquid-biopsy-assays-multiple-sequencing-platforms)

**Roche White Paper 3**

Title: Streamlined Library Prep Enables Robust Gene Expression Profiling Using RNA-sequencing  
  
Body: This whitepaper from Roche describes a method for successful RNA-sequencing library construction from partially degraded RNA, leading to superior detection of differential gene expression compared to alternative workflows.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/kapa-rna-hyperprep-streamlined-library-preparation-workflow-enables-robust)

**Roche White Paper 4**

Title: Targeted CRISPR Indel Screening Using an Automated Workflow

Body: Download this application note from Roche to learn about automated library preparation for CRISPR sequencing with minimal QC or sample-specific workflow modifications.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/targeted-crispr-indel-screening-using-automated-kapa-hyperprep-workflow)

**Roche White Paper 5**

Title: Recommendations and Expectations for RNA-seq Using Degraded Inputs  
  
Body: This study by Roche assesses the effects of RNA type and quality on RNA-seq library construction and addresses expectations regarding sequencing data quality.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/kapa-rna-hyperprep-workflow-recommendations-and-expectations-rna-sequencing)

**Roche White Paper 6**

Title: Shortened Hybridization Times Using Mechanical Fragmentation  
  
Body: This white paper from Roche describes an accelerated workflow for hybridization-based target-enriched next-generation sequencing that yields high-quality whole-exome sequencing data with hybridization times as short as 1 hour.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/shortened-hybridization-times-kapa-hypercap-v3-using-mechanical-fragmentation)

**MGI Americas Webinar 1**

Title: Transforming COVID-19 Testing and Research in the Sinai Health System/University Health Network

Body: This on-demand webinar discusses how the Sinai Health System in Ontario is increasing its COVID-19 lab testing capacity from 650 to 17,500 tests per day, along with the role of the MGISP-960 automation system in this scaleup.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/covid-19-webinar-series-transforming-covid-19-testing-and-research-sinai-health)

**MNG Laboratories Webinar Library 3**

Title: Combining Genome and Transcriptome Sequencing to Improve Diagnostic Outcomes

Body: This on-demand webinar presented by MNG Laboratories discusses the benefits of performing genome and RNA sequencing together.

Download it from GenomeWeb’s [library](https://www.genomeweb.com/resources/webinars/combining-genome-sequencing-transcriptome-analysis-can-improve-diagnostic)

**MNG Laboratories Webinar Library 4**

Title: Solving Challenging Cases with Advanced Sequencing Technologies

Body: This on-demand webinar from MNG Laboratories presents multiple case studies illustrating the value of advanced sequencing to address clinical challenges, including high-resolution CNV assessment, mitochondrial DNA analysis, uniparental disomy assessment, and more

Download it from GenomeWeb’s Webinar [library](https://www.genomeweb.com/resources/webinars/solving-challenging-cases-mng-webinar-series)

**Metabolon White Paper 1**Title: Six Ways Phenotypic Data Improves Decision-Making in Your Drug Development Program  
  
Body: In this whitepaper from Metabolon discover six ways metabolomics provides greater confidence and higher success rates and complements the work of your in-house teams for your drug development pipeline.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/6-ways-phenotypic-data-improves-decision-making-your-drug-development-program)

**Metabolon Whitepaper 2**Title: Five Translational Insights Key to a Successful First-in-Human Study

Body: In this whitepaper by Metabolon learn how metabolomics can provide five critical translational insights for moving from pre-clinical animal studies to human clinical trials.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/five-translational-insights-key-successful-first-human-fih-study-metabolite)

**Metabolon White Paper 3**

Title: The Keys to Harnessing the True Power of Metabolomics  
  
Body: Read this white paper from Metabolon to learn why metabolomics is an essential technology for successful drug discovery and development.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/keys-harnessing-true-power-metabolomics)

**Metabolon Webinar 1**

Title: Harnessing the True Power of Metabolomics with the 4Cs

Body: In this on-demand webinar from Metabolon learn how metabolomics provides life sciences researchers and drug developers with an integrative look at the functional state of a biological system, allowing you to quickly zero in on the biological insights and biomarkers that define health, disease and treatment response.

Download it from GenomeWeb’s [Webinar library](https://www.genomeweb.com/resources/webinars/harnessing-true-power-metabolomics-4cs)

**Metabolon Webinar 2**

Title: Case Study: New Target in Sickle Cell Disease

Body: This case study from Metabolon highlights how metabolomics revealed an unknown pathway and a promising target for a new drug.

Download it from GenomeWeb’s [Webinar library](https://www.genomeweb.com/resources/webinars/new-target-sickle-cell-disease)

**Metabolon Webinar 3**

Title: Case Study: Ketogenic Efficacy Through Microbiome Metabolism

Body: This case study from Metabolon describes how metabolomics led to the discovery that the low-carb, high-fat ketogenic diet can help some patients with treatment-resistant epilepsy control their seizures.

Download it from GenomeWeb’s [Webinar library](https://www.genomeweb.com/resources/webinars/ketogenic-efficacy-through-microbiome-metabolism)

**Metabolon Webinar 4**

Title: Identification of Therapeutic Intervention and Translatable Biomarkers

Body: This case study from Metabolon highlights a client’s success in identifying a novel interaction between the diet, the intestinal microbiota, and metabolite signaling in type 2 diabetes.

Download it from GenomeWeb’s [Webinar library](https://www.genomeweb.com/resources/webinars/identification-therapeutic-intervention-and-translatable-biomarkers)

**Mission Bio White Paper 1**Title: Deep Understanding of Cell and Gene Therapy Genome Editing Protocols Enabled with Single-cell Sequencing  
  
Body: Download this whitepaper from Mission Bio to learn how single-cell sequencing can help reduce the time and cost for cell and gene therapies to go to market.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/deep-understanding-cell-and-gene-therapy-genome-editing-protocols-enabled)

**Mission Bio White Paper 2**Title: Single-cell Multiomics Reveals Novel Correlations Between Genomic Variants and Protein Expression in AML Patient Samples  
  
Body: In this whitepaper by Mission Bio learn about a novel capability that has the power to reveal cell identities and subtle cell states and link genomic variation to protein expression, leading to more informed research on disease and therapeutic development.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/single-cell-multi-omics-reveals-novel-correlations-between-genomic-variants)

URL: <https://www.genomeweb.com/resources/white-papers/single-cell-multiomics-reveals-novel-correlations-between-genomic-variants>

**Mission Bio White Paper 3**Title: In-depth Quantification of Cell and Gene Therapy DNA Integrations Enabled with Single-cell Sequencing  
  
Body: This whitepaper by Mission Bio describes a system that can simultaneously measure DNA variations for up to 1,000 targets and protein expression for 45 targets in thousands of single cells. This novel capability has the power to lead to more informed research on disease and therapeutic development.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/depth-quantification-cell-and-gene-therapy-dna-integrations-enabled-single)

**Mission Bio White Paper 4**Title: Single-Cell Sequencing 101: DNA & Multiomics for Precision Medicine

Body: This eBook from Mission Bio explores how single-cell DNA sequencing and multi-omics are rapidly elevating how cancer is both studied and treated.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/single-cell-sequencing-101-dna-multiomics-precision-medicine)

**Mission Bio White Paper 5**Title: Single-cell DNA Analysis of a Novel Acute Erythroid Leukemia CRISPR Induced Mouse Model

Body: This application note from Mission Bio describes a project that used CRISPR and single-cell DNA sequencing to generate mouse models of acute erythroid leukemia and to analyze clonal structure and co-mutations responsible for tumorigenesis.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/single-cell-dna-analysis-novel-acute-erythroid-leukemia-ael-crispr-induced)

**NanoDrop TFS Whitepaper 1**Title: Nucleic Acid Contamination Application Ebook

Body: This ebook by Thermo Fisher Scientific outlines the benefits of a chemometric approach to analyze the chemical components present in a sample.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/nucleic-acid-contamination-application-ebook)

**NanoDrop TFS Whitepaper 2**Title: Protein Quantification and Qualification

Body: This compendium from Thermo Fisher Scientific provides technical documents, application notes, and protocols for measuring proteins using the Thermo Scientific NanoDrop One/OneC Microvolume UV-Vis Spectrophotometer.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/protein-quantification-and-qualification)

**NanoDrop TFS Webinar 1**

Title: Differentiate DNA from RNA using NanoDrop Spectrophotometers  
  
Body: This on-demand webinar from Thermo Fisher Scientific reviews how absorbance is used to analyze nucleic acid samples to detect DNA/RNA contamination.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/differentiate-dna-rna-using-nanodrop-spectrophotometers)

**Namocell Whitepaper 1**Title: Single Cell Deposition Efficiency

Body: This application note establishes Namocell’s deposition efficiency for single-cell isolation for multiple downstream applications including single-cell genomics, CRISPR, rare cell isolation, and cell line development.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/single-cell-deposition-efficiency)

**Namocell Whitepaper 2**Title: B Cell Isolation for Single Cell Genomics

Body: In this application note, the Namo Single Cell dispenser was used to isolate single activated B cells. Gene expression was quantified for both resting and activated B cells to identify transcriptional changes associated with the activated cell state.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/b-cell-isolation-single-cell-genomics)

**Natera White Paper 1**

Title: A Personalized, Tumor-Informed Approach to Detect Molecular Residual Disease with High Sensitivity and Specificity

Body: This whitepaper from Natera summarizes advantages of the Signatera approach, data from the analytical validation of Signatera, and differences between Signatera and other ctDNA detection assays.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/personalized-tumor-informed-approach-detect-molecular-residual-disease-high)

**Natera White Paper 2**

Title: Seeing Beyond the Limit: Detect Residual Disease and Assess Treatment Response

Body: This whitepaper by Natera reviews the differences between Signatera and other ctDNA detection assays, summarizes data from the analytical and clinical validation of Signatera, and presents potential research applications of Signatera in clinical studies.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/seeing-beyond-limit-detect-residual-disease-and-assess-treatment-response)

**Natera Webinar 1**

Title: Novel Trial Design Strategies with a Personalized ctDNA Assay

Body: In this on-demand webinar from Natera learn how a personalized, tumor-informed ctDNA test can be applied in cancer trials, potentially enriching for patients most likely to respond to therapy, accelerating time to trial readout, or identifying early relapsers.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/novel-trial-design-strategies-personalized-ctdna-assay)

**Norgen GW Whitepaper 1 ( Do not use )**

Title: Saliva: A Viable Alternative to Nasal and Oral Swabs for the Detection of SARS-CoV-2  
  
Body: This whitepaper outlines data supporting the advantages of saliva over nasopharyngeal swabs for the detection of SARS-CoV-2 RNA in COVID-19 patients.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/saliva-viable-alternative-nasal-and-oral-swabs-detection-sars-cov-2)

**Norgen 360Dx Whitepaper 1 ( Do not use )**

Title: Saliva: A Viable Alternative to Nasal and Oral Swabs for the Detection of SARS-CoV-2  
  
Body: This whitepaper outlines data supporting the advantages of saliva over nasopharyngeal swabs for the detection of SARS-CoV-2 RNA in COVID-19 patients.

Download it from 360Dx’s [White Paper Channel.](https://www.360dx.com/resources/white-papers/saliva-viable-alternative-nasal-and-oral-swabs-detection-sars-cov-2)

**Norgen GW Whitepaper 2 (Retired )**

Title: Inactivation of Coronavirus in Samples Using a Saliva RNA Preservative  
  
Body: This whitepaper from Norgen illuminates the importance of using effective preservation agents to inactivate SARS-CoV-2 in order to expand mass testing efforts for COVID-19.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/inactivation-coronavirus-samples-using-norgen-s-saliva-rna-preservative)

**Norgen GW White Paper 3 ( Retired )**Title: The Complete Diagnostic COVID-19 Workflow Infographic

Body: Download this whitepaper from Norgen to learn how silicon carbide reduces false negatives in the detection of SARS-CoV-2.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/complete-diagnostic-covid-19-workflow-infographic)

**Norgen GW White Paper 4 ( Retired )**Title: How to Reduce False Negative SARS-CoV-2 Results with Silicon Carbide

Body: Download this whitepaper from Norgen to learn why it matters if viral RNA is fragmented from VTM storage.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/how-reduce-false-negative-sars-cov-2-results-silicon-carbide)

**Norgen GW White Paper 5 (Do not use )**Title: Detecting SARS-CoV-2 Variants

Body: In this report by Norgen learn about the effectiveness of TaqMan RT-PCR kits in detecting new variants of SARS-CoV-2

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/sars-cov-2-variants-are-detected-norgen-biotek-detection-kits)

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URL: <https://gw-resources.tradepub.com/c/pubRD.mpl?secure=1&sr=pp&_t=pp:&qf=w_nori03&ch=>

**NDSC White Paper 1**

Title: Mayo Clinic Provides Insight on PAMA and Overcoming Medicare Cuts  
  
Body: This paper provides insight from Mayo Clinic physicians and Change Healthcare experts on the impact of PAMA cuts for labs and alternative solutions that may enable them to continue operating as a vital and sustainable service line within the hospital.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/new-pama-math-laboratory-data-key-overcoming-medicare-cuts)

**Fabric Genomics White Paper 1**

Title: Delivering Rapid Whole Genome Reports for ICU Cases with Opal Clinical STAT

Body: In this whitepaper, learn how Rady Children’s Institute for Genomic Medicine use Fabric Genomics’ interpretation platform to quickly analyze results and apply insights to pediatric patient care.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/delivering-rapid-whole-genome-reports-icu-cases-opal-clinical-stat)

**Fabric Genomics White Paper 2**

Title: Validation of NGS-Based Laboratory-Developed Testing  
  
Body: Although laboratory developed tests (LDTs) are exempt from clinical trials, they do need to be validated. This white paper provides an introduction to validating NGS methods for clinical testing and describes how sophisticated artificial intelligence developed by Fabric Genomics can help in the process.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/validation-ngs-based-laboratory-developed-testing)

**Fabric Genomics White Paper 3**

Title: Planning Your Lab-Developed Test Validation Experiments  
  
Body: This guide will help you plan validation experiments for next-generation sequencing assays. Download the guide to learn what type of samples to use and how many, how to address carryover, an overview of PPA/PPV, and more.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/planning-your-lab-developed-test-validation-experiments)

**Fabric Genomics Webinar 1**

Title: AI-Driven Automated Variant Classification for Inherited Disease Panel Reporting

Body: In this on-demand webinar, Fabric Genomics presents curated gene panels to accelerate your genomic interpretation and reporting.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/ai-driven-automated-variant-classification-inherited-disease-panel-reporting)

**Fabric Genomics Webinar 2**

Title: Near-Instant Identification of Rare Genetic Disease Genes

Body: In this webinar, Francisco De La Vega, Chief Scientific Officer at Fabric Genomics, introduces the Fabric GEM AI algorithm and demonstrates how it significantly simplifies and improves disease-causing variant identification over prior methods.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/near-instant-identification-rare-genetic-disease-genes)

**Fabric Genomics Webinar 3**

Title: Avoid Common Mistakes When Launching Hereditary Cancer Panel Tests

Body: In this on-demand webinar, Dr. Jeanette McCarthy goes over the best strategies for launching, scaling, and troubleshooting hereditary cancer panel tests to make the most of your clinical workflows cost-effectively.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/avoiding-common-mistakes-labs-make-when-launching-hereditary-cancer-panel-tests)

**Deep Lens GW White Paper 1**

Title: How Can AI Improve Oncology Clinical Trial Fulfillment?

Body: This scientific poster from Deep Lens highlights how an AI-based platform, VIPER, triaged study participants across 20 different cancer studies simultaneously, allowing identification of 150 previously unidentified patients for interventional studies.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/novel-artificial-intelligence-ai-based-technology-improve-oncology-clinical)

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**Deep Lens GW Webinar 1**

Title: Busting Cancer Patient Recruitment Bottlenecks in Precision Trials

Body: The interpretation of genomic test results is challenging, but advanced ingestion tools and machine learning can help patients access precision treatments. Learn more from this on-demand webinar from Deep Lens.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/busting-cancer-patient-recruitment-bottlenecks-precision-trials)

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**Deep Lens GW Webinar 2**

Title: Automating Precision Oncology Clinical Trials

Body: In this on-demand webinar from Deep Lens, learn how automating the identification and screening process for precision oncology clinical trials can help meet study goals.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/precision-medicine-how-lab-agnostic-genomic-data-ingestion-automating-oncology)

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Download it from the Precision Oncology News [Webinar Library](https://www.precisiononcologynews.com/resources/webinars/precision-medicine-how-lab-agnostic-genomic-data-ingestion-automating-oncology)

**Deep Lens GW Webinar 3**

Title: Technology Barriers and Breakthroughs to Better Serve Community Cancer Patients

Body: View this on-demand webinar as Deep Lens discusses how technology barriers and breakthroughs can better serve community cancer patients. Featuring Kamala Harris, TJ Bowen, Kashyap Patel, Harish Dave.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/technology-barriers-and-breakthroughs-better-serve-community-cancer-patients)

**Deep Lens PON Webinar 3**

Title: Technology Barriers and Breakthroughs to Better Serve Community Cancer Patients

Body: View this on-demand webinar from Deep Lens to learn how technology breakthroughs can better serve community cancer patients.

Download it from the Precision Oncology News [Webinar Library](https://www.precisiononcologynews.com/resources/webinars/technology-barriers-and-breakthroughs-better-serve-community-cancer-patients)

**Deep Lens GW Webinar 4**

Title: The Critical Intersection Between Patients, Sites, and Sponsors in Cancer Clinical Trials

Body: This on-demand webinar describes game-changing models in cancer research as well as how artificial intelligence and mobile technology are driving precision medicine.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/critical-intersection-between-patients-sites-and-sponsors-cancer-clinical-trials)

**Deep Lens PON Webinar 4**

Title: The Critical Intersection Between Patients, Sites, and Sponsors in Cancer Clinical Trials

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Download it from the Precision Oncology News [Webinar Library](https://www.precisiononcologynews.com/resources/webinars/critical-intersection-between-patients-sites-and-sponsors-cancer-clinical-trials)

**DNANexus Whitepaper 5**

Title: 10 Tips to Scale Your Diagnostics Business & Grow Your Test Portfolio Globally

Body: This whitepaper from DNAnexus presents 10 tips for diagnostics labs implementing NGS testing to scale up their businesses and grow their test portfolios.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/10-tips-scale-scale-your-diagnostics-business-grow-your-test-portfolio)

**DNANexus Whitepaper 6**

Title: Build vs. Buy? Six Questions to Consider when Evaluating Clinical Diagnostics Informatics Solutions

Body: This whitepaper from DNAnexus highlights the advantages and disadvantages of either improving, augmenting or entirely replacing your existing clinical diagnostics informatics solutions.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/build-vs-buy-six-questions-consider-when-evaluating-clinical-diagnostics)

**DNANexus Webinar 1**

Title: Explore Millions of Clinico-Genomic Data Points from UK Biobank

Body: Watch this webinar to learn how DNAnexus Apollo empowers UK Biobank researchers to explore possible correlations across population-wide genomic and phenotypic data.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/explore-millions-clinico-genomic-data-points-uk-biobank)

**DNANexus Webinar 2**

Title: Rapid Exploration of Oncology Clinico-Genomic Data from TCGA

Body: Watch this webinar to see how DNAnexus empowers clinician researchers and bioinformaticians to work together to explore expansive TCGA clinical data elements with the Apollo Cohort Browser.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/rapid-exploration-oncology-clinico-genomic-data-tcga)

**Eppendorf GW Whitepaper 1**

Title: Case Study: Eppendorf OEM for a Clinical Analyzer

Body: This case study describes an Eppendorf OEM project to support development of a clinical analyzer for a large diagnostics provider.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/case-study-eppendorf-oem-your-volume-your-quality-when-you-need-it)

**correct link : https://www.genomeweb.com/resources/white-papers/case-study-eppendorf-oem-clinical-analyzer**

**Eppendorf 360Dx Whitepaper 1**

Title: Case Study: Eppendorf OEM for a Clinical Analyzer

Body: This case study describes an Eppendorf OEM project to support development of a clinical analyzer for a large diagnostics provider.

Download it from 360Dx’s [White Paper Channel](https://www.360dx.com/resources/white-papers/case-study-eppendorf-oem-your-volume-your-quality-when-you-need-it)

**correct link : https://www.360dx.com/resources/white-papers/case-study-eppendorf-oem-clinical-analyzer**

**Eppendorf Whitepaper 2**

Title: Case Study: Eppendorf OEM for Lab Automation

Body: This case study describes an Eppendorf OEM project for a lab automation company that required a portfolio of automation tips of varying purity levels, pipetting volumes, and aerosol protection.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/case-study-eppendorf-oem-consistent-quality-strong-growth-over-decades)

**correct link : https://www.genomeweb.com/resources/white-papers/case-study-eppendorf-oem-lab-automation**

**Eppendorf Whitepaper 3**

Title: High Quality Products + Lower Lifetime Costs = Eppendorf OEM

Body: Download this whitepaper from Eppendorf to learn how an OEM (original equipment manufacturer) custom solution can overcome the limitations of existing instrument and consumables designs and make new assays and analyses possible.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/high-quality-products-lower-lifetime-costs-eppendorf-oem)

**Integra White Paper 1**Title: Performing an ELISA with a Pipetting Robot  
  
Body: In this application note from Integra learn about a pipetting robot that allows ELISAs to be automated, which increases the reproducibility of your results and gives you more time to focus on your science.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/performing-elisa-assist-plus-pipetting-robot)

**Integra White Paper 2**Title: Automated RT-PCR Setup for COVID-19 Testing  
  
Body: This whitepaper from Integra highlights describes how the ASSIST PLUS pipetting robot and other tools helped automate RT-PCR setup in COVID-19 testing laboratories.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/automated-rt-pcr-set-covid-19-testing)

URL: <https://gw-resources.tradepub.com/c/pubRD.mpl?secure=1&sr=pp&_t=pp:&qf=w_defa902&ch=>

**Integra White Paper 3**Title: Protein Purification with a Handheld Electronic Pipette  
  
Body: In this whitepaper from Integra learn how an electronic multichannel pipette can automate protein purification using immobilized metal affinity chromatography (IMAC).

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/protein-purification-using-immobilized-metal-affinity-chromatography-imac)

**Integra White Paper 4**Title: Automated Nucleic Acid Extraction and RT-PCR Setups for SARS-CoV-2 Testing  
  
Body: This application note from Integra describes how a pipetting robot can be used for rapid implementation of COVID-19 testing and automation of sample preparation processes.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/automated-nucleic-acid-extraction-and-rt-pcr-set-ups-sars-cov-2-testing)

URL: <https://gw-resources.tradepub.com/c/pubRD.mpl?secure=1&sr=pp&_t=pp:&qf=w_defa900&ch=>

**Integra White Paper 5**Title: High-Throughput, 3D Assay Development on Spheroids in 1536 Well Plates  
  
Body: In this whitepaper from Integra learn about an automated method for seeding, dosing, and assaying spheroids in 1536-well spheroid microplates.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/high-throughput-3d-assay-development-spheroids-1536-well-plates)

**Integra White Paper 6**Title: Performance of Low Retention GripTips  
  
Body: This application guide by Integra illustrates the advantages of using Low Retention GripTips when pipetting low surface tension liquids.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/performance-low-retention-griptips-integra)

**Integra White Paper 7**Title: Measuring Dead Volume in Multichannel Reagent Reservoirs  
  
Body: This technical note from Integra describes a novel 25 ml divided reservoir that overcomes the challenge of dead volumes in multichannel reagent reservoirs. The two-compartment reservoir prevents liquids from pooling, offering the lowest dead volume on the market.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/measuring-dead-volume-integra-s-multichannel-reagent-reservoirs)

**Integra White Paper 8**Title: Automated Affinity Purification of Immunoglobulins   
  
Body: The affinity extraction protocol described in this application note from Integra demonstrates high recoveries, low background, and reproducible antibody enrichment.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/automated-affinity-purification-immunoglobulins-iggs-using-intip-dispersive)

**Integra White Paper 9**Title: Increase your Sample Screening and Genotyping Assay Throughput   
  
Body: Download this whitepaper by Integra to learn how scientists from the Technical University of Munich benefitted from the enhanced productivity of a multichannel pipette, reducing tedious liquid handling tasks.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/increase-your-sample-screening-and-genotyping-assay-throughput-voyager)

**Integra White Paper 10**Title: Setting up a 384 well qRT-PCR assay for the ViiA 7  
  
Body: This application note from Integra describes how to set up a 384-well qRT-PCR assay by hand using a VIAFLO 16 channel 125 μl electronic pipette.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/setting-384-well-qrt-pcr-assay-viia-7-using-viaflo-and-voyager-electronic)

**Invetech White Paper 1**

Title: Best Practices for Point-of-Care Product Development  
  
Body: In this whitepaper, Invetech shares best practices and proven approaches gained from developing more than 30 point-of-care platforms so you can make informed decisions that will empower your path to commercialization.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/best-practices-point-care-poc-product-development)

**Invetech White Paper 2**

Title: Improving POC Device Manufacturability: 5 Expert Approaches

Body: In this whitepaper Invetech shares proven approaches along with an easy-to-use manufacturability checklist to support your successful path to commercialization.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/improving-poc-device-manufacturability-5-expert-approaches)

**Invetech GW White Paper 3**

Title: User-focused Product Definition for IVD Market Success

Body: This white paper from Invetech describes how a user-focused product development process will enable you to accurately identify and understand the problems a device must address before looking for solutions through product definition

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/user-focused-product-definition-ivd-market-success)

**Invetech 360Dx White Paper 3**

Title: User-focused Product Definition for IVD Market Success

Body: This white paper from Invetech describes how a user-focused product development process will enable you to accurately identify and understand the problems a device must address before looking for solutions through product definition

Download it from 360Dx’s [White Paper Channel.](https://www.360Dx.com/resources/white-papers/user-focused-product-definition-ivd-market-success)

**Isoplexis White Paper 2**Title: Single-Cell Intracellular Proteome  
  
Body: In this ebook by Isoplexis learn how to reveal critical signaling mechanisms by uncovering intracellular communication.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/single-cell-intracellular-proteome)

**Isoplexis White Paper 3**Title: Harnessing the Most Powerful Cells Crucial to Accelerating Curative Medicines  
  
Body: Download this article to learn how IsoPlexis’ single-cell functional proteomics technology is accelerating and improving immune therapies.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/harnessing-most-powerful-cells-crucial-accelerating-curative-medicines)

**Isoplexis White Paper 4**Title: Discovering Multiple Pathways to Drug Resistance in Melanoma Cells with Single-Cell Proteomics and Single-Cell Metabolomics  
  
Body: Download this research summary from IsoPlexis to find out how researchers at the California Institute of Technology used predictive single-cell functional proteomic and metabolic assays to investigate changing cellular states in melanoma cells for the development of improved targeted therapies.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/discovering-multiple-pathways-drug-resistance-melanoma-cells-single-cell)

**Isoplexis Webinar 1**

Title: Biomarker Strategies for Advanced Immune-Based Therapies

Body: In this on-demand webinar from Isoplexis, Naval Daver of MD Anderson Cancer Center discusses advanced immune-based approaches in acute myeloid leukemia that combine chemotherapy with checkpoint therapy, along with the relevant biomarker strategies associated with each.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/biomarker-strategies-advanced-immune-based-therapies)

**Isoplexis Webinar 2**Title: Walk-Away High-Plex Proteomics to Enable Accelerated Immune Medicine  
  
Body: In this on-demand webinar from Isoplexis, learn why the company’s intracellular signaling omics application is a critical tool for the characterization of cancer cell resistance pathways and the development of durable targeted therapies to overcome resistance.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/walk-away-high-plex-proteomics-enable-accelerated-immune-medicine)

**Illumina White Paper 1**

Title: De Novo Genome Assembly for Large, Complex Genomes  
  
Body: This application note from Illumina discusses how the NovaSeq 6000 sequencer with NRGene's DeNovoMAGIC bioinformatics system produces de novo assemblies for large, complex crop genomes of exceptional quality.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/de-novo-genome-assembly-illumina-sequencing-and-nrgene-denovomagic-solution)

**Illumina White Paper 2**

Title: Nextera DNA Flex Library Preparation for Soil Shotgun Metagenomics Analysis

Body: This application note from Illumina shows how to explore the taxonomic and functional diversity of soil microbial communities with a comprehensive shotgun metagenomics sequencing workflow.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/nextera-dna-flex-library-preparation-soil-shotgun-metagenomics-analysis)

**Illumina Webinar 1**

Title: Comprehensive NTRK Fusion Detection for Optimal Identification of Rare Genomic Events

Body: In this webinar from Illumina, learn how NTRK detection from RNA using hybrid-capture NGS provides comprehensive and accurate fusion detection, agnostic of the fusion partner.

Download it from GenomeWeb’s [Webinar library](https://www.genomeweb.com/resources/webinars/comprehensive-ntrk-fusion-detection-agnostic-fusion-partner-optimal)

**Illumina Webinar 2**

Title: AIM-MNP: Implementation of Molecular Profiling in Pediatric Brain Cancer

Body: In this on-demand eCase Study video, Dr Jordan Hansford, Clinical Lead for the Neuro-Oncology group at the Royal Children’s Hospital Melbourne, discusses how DNA methylation analysis is impacting neuropathology and improving diagnosis of central nervous system tumors.

Download it from GenomeWeb’s [eCase Study Channel](https://www.genomeweb.com/resources/webinars/aim-mnp-implementation-molecular-profiling-pediatric-brain-cancer)

**Illumina eCase Study 1**

Title: High-Throughput Detection of SARS-CoV-2 Using NGS

Body: This on-demand eCase Study by Illumina demonstrates the opportunity for next-generation sequencing for detection of SARS-CoV-2, with an additional advantage of enabling genetic epidemiology and surveillance.

Download it from GenomeWeb’s [eCase Study Library.](https://www.genomeweb.com/resources/webinars/high-throughput-detection-sars-cov-2-using-covidseq-ngs-insights-surveillance)

**Illumina eCase Study 2**

Title: Transcript: High-Throughput Detection of SARS-CoV-2 Using NGS

Body: This transcript is from a GenomeWeb eCase Study in which Sridhar Sivasubbu discussed the advantages of using NGS to study the SARS-CoV-2 genome and how these findings can be applied to surveillance and epidemiology.

Download it from GenomeWeb’s [eCase Study Library.](https://www.genomeweb.com/resources/white-papers/high-throughput-detection-sars-cov-2-using-covidseq-ngs-insights-surveillance)

**Illumina eCase Study 3**

Title: Increasing the Resolution: Implementing NGS at Probiotics Australia

Body: In this on-demand eCase Study, Tristrom Winsley of Probiotics Australia shares how the implementation of next-generation sequencing has transformed his organization’s operations.

Download it from GenomeWeb’s [eCase Study Library.](https://www.genomeweb.com/resources/webinars/increasing-resolution-implementing-ngs-probiotics-australia)

**Illumina eCase Study 4**

Title: Implementing NGS at Probiotics Australia: A GenomeWeb eCase Study Transcript

Body: This transcript is from a GenomeWeb eCase Study in which Tristrom Winsley of Probiotics Australia discussed how the implementation of next-generation sequencing has transformed his organization’s operations.

Download it from GenomeWeb’s [eCase Study Library.](https://www.genomeweb.com/resources/white-papers/increasing-resolution-implementing-ngs-probiotics-australia-genomeweb-ecase)

**Invivoscribe White Paper 1**

Title: NGS for Disease Monitoring

Body: In this on-demand webinar from Invivoscribe, Maria Arcila of Memorial Sloan Kettering Cancer Center discusses the advantages of next-generation sequencing to assess clonality status and monitor minimum residual disease.

Download it from GenomeWeb’s Webinar [library](https://www.genomeweb.com/resources/webinars/ngs-based-clonality-testing)

**Invivoscribe Webinar 1**

Title: Assessment of FLT3 Mutations in AML Patients

Body: This on-demand webinar from Invivoscribe discusses the advantages of using a highly validated and precise companion diagnostic for the assessment of FLT3 mutations in AML patients.

Download it from GenomeWeb’s [Webinar library](https://www.genomeweb.com/resources/webinars/leukostrat-cdx-flt3-mutation-assay-featured-speaker-dr-bradley-patay)

**Informed DNA White Paper 1**

Title: Genetic Testing Improves Outcomes for Patients with Rare Inherited Retinal Diseases  
  
Body: In this whitepaper from Informed DNA learn how genetic testing can be vital to the diagnosis of rare inherited retinal diseases and syndromic conditions and is important in the management of all patients.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/genetic-testing-tool-improving-care-and-outcomes-patients-rare-inherited)

**Olink Whitepaper 1**

Title: Serum Protein Biomarkers in Inflammatory Bowel Disease and Prediction of Anti-TNF Response

Body: This pilot study demonstrates the use of Olink protein biomarker data in clinical use. Among other findings, 11 proteins were found to be differentially expressed in patients with ulcerative colitis or Crohn’s disease.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/pilot-study-serum-protein-biomarkers-inflammatory-bowel-disease-and)

**Olink Whitepaper 2**

Title: Pilot Study for Identification of Biomarker Profiles in NASH Patients

Body: This report from Olink describes a pilot study that identified a potential predictive protein signature separating stage 0 from stage 1 fibrosis in non-alcoholic steatohepatitis (NASH) patients.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/pilot-study-identification-biomarker-profiles-nash-patients)

**Olink Whitepaper 3**

Title: Accelerate COVID-19 Research with New Insights from World-Class Proteomics

Body: This infographic from Olink describes how Olink analysis has been providing vital data in many COVID-19 studies around the world, covering a broad range of key applications.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/accelerate-covid-19-research-new-insights-world-class-proteomics)

**Olink GW Whitepaper 4**

Title: Protein Biomarkers Identify Immunotherapy Response in Malignant Melanoma

Body: This case study from Olink reports on the potential utility of plasma proteomic biomarkers for rapidly predicting immunotherapy response in a non-invasive manner.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/protein-biomarkers-identify-responders-and-non-responders-immunotherapy)

**Olink PON Whitepaper 4**

Title: Protein Biomarkers Identify Immunotherapy Response in Malignant Melanoma

Body: This case study from Olink reports on the potential utility of plasma proteomic biomarkers for rapidly predicting immunotherapy response in a non-invasive manner.

Download it from the Precision Oncology News [White Paper Channel.](https://www.precisiononcologynews.com/resources/white-papers/protein-biomarkers-identify-responders-and-non-responders-immunotherapy)

**Olink White Paper 5**Title: Link Genomics with Proteomics to Accelerate the Search for Effective Drug Targets

Body: This infographic by Olink illustrates the importance of combining proteomics with genomics to identify actionable protein targets for drug development.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/link-genomics-proteomics-accelerate-search-effective-drug-targets)

**Olink Webinar 1**

Title: Proteomics on NGS: Game-changing immunoassay technology to increase multiplexing and throughput

Body: In this on-demand webinar from Olink, learn how high-multiplex immunoassay technology can be combined with next-generation sequencing readout for a better understanding of real-time human biology.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/proteomics-ngs-game-changing-immunoassay-technology-increase-multiplexing-and)

**Olink Webinar 2**Title: Accelerating Proteomics with Proximity Extension Assay  
  
Body: This short video provides an overview of the Proximity Extension Assay technology that lies behind the Olink Explore 1536 proteomics platform, which offers next-generation sequencing readout for human protein biomarker research.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/accelerating-proteomics-proximity-extension-assay)

**Paragon Genomics White paper 1**

Title: Amplicon-based Target Enrichment to Characterize the SARS-CoV-2 Genome

Body: Paragon Genomics has developed a fast, easy, and highly sensitive sequencing method to detect and interrogate the SARS-CoV-2 genome. This paper discusses the methods and results from initial testing, demonstrating how their highly specific primers deliver >98% genome coverage in samples with as low as <2 viral copies/µL.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/accurate-detection-and-whole-genome-characterization-sars-cov-2-using)

**Paragon Genomics Webinar 1**

Title: Turn Your Sequencing Lab Into a COVID-19 Research and Surveillance Powerhouse

Body: This on-demand webinar will explain how to ramp up your COVID-19 research and surveillance by utilizing Paragon Genomics' new CleanPlex SARS-CoV-2 NGS Panel, based on a highly sensitive amplicon sequencing technology designed to selectively amplify and sequence the full genome of the SARS-CoV-2 virus.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/turn-your-sequencing-lab-covid-19-research-and-surveillance-powerhouse)

**Paragon Genomics Webinar 2**Title: SARS-CoV-2 Sequencing at Children’s Hospital Los Angeles  
Body: In this on-demand webinar, Paragon Genomics and Children's Hospital Los Angeles discuss the newest applications and methods for identifying and investigating the SARS-CoV-2 genome.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/sars-cov-2-sequencing-and-high-throughput-detection)

**PerkinElmer White Paper 1**

Title: Small RNA Library Preparation from Human Biofluids

Body: In this application note from PerkinElmer learn how to increase the efficiency of miRNA biomarker discovery by using tRNA/YRNA blockers during small RNA library prep, which reduces the formation of YRNA and tRNA products.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/small-rna-library-preparation-human-biofluids)

**PerkinElmer White Paper 2**

Title: PG-Seq Rapid Kit for Preimplantation Genetic Screening

Body: In this whitepaper from PerkinElmer learn how to reduce the PGT-A total assay time and hands-on time with an innovative single-tube, PCR indexing approach.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/pg-seq-rapid-kit-preimplantation-genetic-screening)

**PerkinElmer White Paper 3**

Title: Fully Automated Miniaturized Sequencing

Body: In this whitepaper from PerkinElmer learn how to reduce the cost of NGS with comprehensive complete reaction miniaturization solutions, including kits and a liquid handler with pre-programed, plug-and-play automated methods.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/fully-automated-miniaturized-nextflex-rapid-xp-dnaseq-sciclone-g3-ngsx-ht)

**PerkinElmer GW White Paper 4**

Title: Important Considerations When Choosing a SARS-CoV-2 Real-Time RT-PCR Assay

Body: In this whitepaper from PerkinElmer, you will learn about the many factors that need to be considered when choosing a workflow for SARS-CoV-2 detection.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/important-considerations-when-choosing-sars-cov-2-real-time-rt-pcr-assay)

**PerkinElmer 360Dx White Paper 4**

Title: Important Considerations When Choosing a SARS-CoV-2 Real-Time RT-PCR Assay

Body: In this whitepaper from PerkinElmer, you will learn about the many factors that need to be considered when choosing a workflow for SARS-CoV-2 detection.

Download it from 360Dx’s [White Paper Channel](https://www.360dx.com/resources/white-papers/important-considerations-when-choosing-sars-cov-2-real-time-rt-pcr-assay)

**PerkinElmer White Paper 5**

Title: Non-invasive Preimplantation Genetic Testing: An Important Frontier for IVF

Body: This application note from PerkinElmer describes how non-invasive preimplantation genetic testing has been improving in vitro fertilization (IVF) success rates.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/non-invasive-preimplantation-genetic-testing)

**PerkinElmer GW Webinar 1**

Title: Choosing a Coronavirus PCR Assay

Body: This on-demand webinar from PerkinElmer highlights critical considerations when choosing a RT-PCR assay for SARS-CoV-2 testing.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/choosing-coronavirus-pcr-assay)

**PerkinElmer 360Dx Webinar 1**

Title: Choosing a Coronavirus PCR Assay

Body: This on-demand webinar from PerkinElmer highlights critical considerations when choosing a RT-PCR assay for SARS-CoV-2 testing.

Download it from 360Dx’s [Webinar Library](https://www.360dx.com/resources/webinars/choosing-coronavirus-pcr-assay)

**Promega White Paper 1**

Title: Cell Line Authentication Using the GenePrint 10 and GenePrint 24 Systems

Body: The Spectrum Compact CE System, paired with the STR-based GenePrint System for cell line authentication, allows for minimal batching and reagent waste to accommodate individual labs or small lab clusters and provides the sensitivity needed to help identify human cell lines and cross-contamination before starting your experiments.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/cell-line-authentication-using-geneprint-10-and-geneprint-24-systems)

**Purigen Biosystems White Paper 1**

Title: Get Higher Yield and Higher Quality DNA from FFPE Samples

Body: This white paper reviews a series of experiments conducted with the Purigen Ionic Purification System to demonstrate an automated application of isotachophoresis and improvements to workflow, nucleic acid yield, and nucleic acid quality in comparison to conventional methods with data from qPCR-based assays and next-generation sequencing.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/isotachophoresis-improves-nucleic-acid-extraction-and-purification-ffpe)

**Purigen Biosystems White Paper 2**

Title: Get High-Quality DNA from FFPE and Reduce PCR Duplicates

Body: This app note reviews how the Purigen Ionic Purification System reduces the number of PCR duplicates that decrease sequencing efficiency. Improving the quality and quantity of DNA from FFPE samples can improve sequencing interpretation by reducing PCR cycles needed during library prep, yielding more usable high-quality sequencing reads.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/isotachophoresis-improves-nucleic-acid-extraction-and-purification-ffpe)

**Purigen Biosystems Webinar 1**

Title: High-yield Extraction and Purification of DNA and RNA from FFPE Samples  
  
Body: In this on-demand webinar, Purigen Biosystems reviews an innovative approach to automated nucleic acid purfication using isotachophoresis.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/simultaneous-high-yield-extraction-and-purification-dna-and-rna-ffpe-samples)

**PierianDx Webinar 1**

Title: Analyzing Complex Genomic Variants in Somatic Cancer

Body: In this on-demand webinar, PierianDx provides practical strategies for analyzing and classifying complex alterations, such as gene fusions, co-occurring variants, copy number variants, and tumor mutational burden, in the context of somatic cancer.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/analyzing-complex-genomic-variants-somatic-cancer)

**ACD White paper 1**

Title: Spatial Mapping and Confirmation of Gene Signatures in a Single-Cell RNA-seq Workflow  
  
Body: This white paper from ACD describes a study in which the diverse cell types in the mouse striatum that had been previously identified by scRNA-seq were confirmed and spatially mapped using the RNAscope Multiplex Fluorescent assay and the RNAscope HiPlex assay.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/rnascope-multiplex-situ-hybridization-technology-enables-incorporation)

**ACD White paper 2**

Title: Combining the RNAscope ISH technology with IHC to Spatially Resolve RNA and Protein Targets Simultaneously  
  
Body: This report from ACD presents the applications of the dual ISHIHC/IF workflow in neuroscience, immuno-oncology, and beyond.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/combining-rnascope-ish-technology-ihc-spatially-resolve-rna-and-protein)

**ACD White Paper 3**

Title: Using QuPath to Analyze RNAscope, BaseScope and miRNAscope Images

Body: This guide by ACD introduces the basic workflow for using QuPath, a free open source bioimage analysis software for whole slide images, to quantify images from RNAscope assays, BaseScope assays, ans miRNAscope assays.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/using-qupath-analyze-rnascope-basescope-and-mirnascope-images)

**ACD White Paper 4**

Title: Detect Small Regulatory RNAs with Spatial & Morphological Context

Body: This scientific poster by ACD presents miRNAscope, a novel in situ hybridization technology for the detection of small regulatory RNAs with spatial and morphological context.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/detect-small-regulatory-rnas-spatial-morphological-context)

**ACD White paper 5**

Title: Measuring the Biodistribution of Gene Therapy Products   
   
Body: In this report ACD demonstrates the use of the RNAscope assay to measure the biodistribution of gene therapy products at single-cell resolution in target and non-target tissues.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/tissue-biodistribution-aav-based-gene-therapy-rnascope-assay)

**ACD White paper 6**

Title: Extracellular Matrix Gene Expression and Cytotoxic T Lymphocyte Infiltration in the Tumor Microenvironment in Non-Small Cell Lung Cancer  
  
Body: In this scientific poster from ACD, learn how the extracellular matrix, an important factor for promoting tumor growth, survival, and migration of tumor cells, can also act as a physical barrier to prevent immune cell infiltration and promote tumor immune escape.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/extracellular-matrix-gene-expression-and-cytotoxic-t-lymphocyte-infiltration)

**ACD White paper 7**

Title: Visualization of in Vivo Gene Editing Heterogeneity at the Transcript Level   
   
Body: In this report ACD describes how the BaseScope ISH Assay can be used in gene editing studies to quantify wild-type versus edited transcripts with single-cell resolution.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/visualization-vivo-gene-editing-heterogeneity-transcript-level-basescope)

**ACD White paper 8**

Title: Preclinical CAR-T Cell Target Safety, Biodistribution, and Tumor Infiltration Analysis

Body: In this report, ACD illustrates a way to detect activated CAR-T cells in the tissue context, as well as low expression of CAR target antigen, using the RNAscope in situ hybridization technology.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/preclinical-car-t-cell-target-safety-biodistribution-and-tumor-infiltration)

**ACD White paper 9**

Title: Visualize Gene Expression and Splice Junctions at the Single-Cell Level Using the RNAscope and BaseScope In Situ Hybridization Assays

Body: In this application note, ACD highlights the RNAscope in situ hybridization ISH assay capable of highly sensitive and specific gene expression visualization within the nervous system.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/visualize-gene-expression-and-splice-junctions-single-cell-level-using)

**ACD White paper 10**

Title: Publications Utilizing the RNAscope Assay to Validate and Spatially Map Single-Cell RNA-Seq Results in the Tissue

Body: This application note from ACD references a list of researchers that are publishing in prominent journals using RNAscope assays to spatially map scRNA-Seq results.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/publications-utilizing-rnascope-assay-validate-and-spatially-map-single-cell)

**ACD White paper 11**

Title: Dissecting the Cellular and Subcellular Localization of lncRNAs in Lung Cancer with the RNAscope In Situ Hybridization Assay

Body: This application note from ACD presents the use of the RNAscope assay to visualize several lncRNAs within the tumor and its relationship to stromal cells.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/dissecting-cellular-and-subcellular-localization-lncrnas-lung-cancer-rnascope)

**ACD White paper 12**  - USE **ACD Webinar 1**

Title: Single-Molecule Detection of MAGE-A Antigens

Body: This white paper from ACD describes how the BaseScope RNA ISH assay can differentially discern between highly homologous sequences, such as the MAGE-A gene family members, in intact fixed tissue.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/basescope-assays-detection-splice-variants-short-targets-and-point-mutations)

URL:

**ACD White paper 13**

Title: How Are Researchers Using In Situ Hybridization in Infectious Disease Research?

Body: This white paper from ACD provides a selection of articles demonstrating use of the RNAscope technology in various infectious disease research groups.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/learn-how-researchers-are-using-rnascope-technology-infectious-diseases)

**ACD White paper 14**

Title: Accelerate COVID-19 Research Using in Situ Hybridization Technology

Body: In this white paper from ACD learn about a technology that obviates the need for the costly and time-consuming development of specific antibodies for newly identified gene targets or pathogens such as the SARS-CoV-2 virus.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/accelerate-covid-19-research-using-highly-sensitive-rnascope-situ)

**ACD White paper 15**

Title: RNAscope for COVID-19 Research

Body: This presentation deck from ACD Bio-techne reviews RNAscope technology, COVID-19 offerings, and RNAscope in COVID-19 literature.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/rnascope-covid-19-research)

**ACD White paper 16**

Title: A Novel Assay for the Robust Detection of MicroRNAs with Spatial Resolution

Body: This application note from ACD describes the new miRNAscope Assay, an in situ hybridization assay enabling highly robust detection of miRNAs, siRNAs, ASOs, and other small RNAs in tissues with spatial and morphological context at single-cell resolution.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/introducing-novel-mirnascope-situ-hybridization-assay-robust-detection)

**ACD White paper 17**

Title: miRNAscope: Detect Small Regulatory RNAs with Spatial and Morphological Context

Body: This poster from ACD, describes the miRNAscope in situ hybridization assay, which detects small RNA species with unparalleled detection sensitivity and specificity, enabling morphological information with single-cell resolution.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/mirnascope-novel-situ-hybridization-technology-detection-small-regulatory)

**ACD White paper 18**

Title: Tech Note: RNAscope or BaseScope RED Assay Combined with Immunohistochemistry

Body: This technical note from ACD provides guidelines for performing in situ hybridization using the RNAscope 2.5 HD Detection Kit RED or the BaseScope Detection Reagent Kit v2 RED with immunohistochemistry on FFPE tissue sections.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/rnascope-or-basescope-red-assay-combined-immunohistochemistry-integrated-co)

**ACD White paper 19**

Title: Tech Note: RNAscope Multiplex Fluorescent v2 Assay Combined with Immunofluorescence

Body: This technical note from ACD provides guidelines for performing in situ hybridization using an RNAscope Multiplex Fluorescent Reagent Kit v2 combined with immunofluorescence on FFPE tissue sections.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/rnascope-multiplex-fluorescent-v2-assay-combined-immunofluorescence)

**ACD White paper 20**

Title: Tech Note: RNAscope 2.5 LS or BaseScope RED Assay Combined with Immunohistochemistry

Body: This technical note from ACD provides guidelines for performing automated chromogenic co-detection of RNA and protein on the Leica BOND RX System.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/rnascope-25-ls-or-basescope-red-assay-combined-immunohistochemistry)

**ACD White paper 21**

Title: Tech Note: RNAscope LS Multiplex Fluorescent Assay Combined with Immunofluorescence

Body: This technical note from ACD provides guidelines for performing automated fluorescent co-detection of RNA and protein by combining in situ hybridization and immunofluorescence on the Leica BOND RX System.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/rnascope-ls-multiplex-fluorescent-assay-combined-immunofluorescence)

**ACD White paper 22**Title: RNAscope in COVID-19 Research  
  
Body: This resource from ACD includes more than 25 publications that show the adoption of RNAscope technology in COVID-19 research ranging from detection of both the viral and replicating strand of the virus, visualizing the host-receptor interaction and the histopathology post infection.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/rnascope-covid-19-research-0)

**ACD White paper 23**Title: Simultaneous Visualization of RNA and Protein Targets Using a New Co-Detection Kit  
  
Body: This resource from ACD describes new kits that allow researchers to simultaneously examine cell-type specific gene expression and identify cellular sources of secreted proteins.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/simultaneous-visualization-rna-and-protein-targets-using-new-co-detection-kit)

**ACD White Paper 24**

Title: Using QuPath to Analyze RNAscope, BaseScope and miRNAscope Images

Body: This guide by ACD introduces the basic workflow for using QuPath, a free open source bioimage analysis software for whole slide images, to quantify images from RNAscope assays, BaseScope assays, ans miRNAscope assays.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/using-qupath-analyze-rnascope-basescope-and-mirnascope-images)

**ACD GW White Paper 25**

Title: Visualize KRAS Point Mutations Using In Situ Hybridization

Body: This scientific poster from ACD highlights the benefits of visualizing KRAS point mutations in non-small cell lung cancer tumors using the BaseScope in situ hybridization assay.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/visualize-kras-point-mutations-using-basescope-ish)

**ACD PON White Paper 25**

Title: Visualize KRAS Point Mutations Using In Situ Hybridization

Body: This scientific poster from ACD highlights the benefits of visualizing KRAS point mutations in non-small cell lung cancer tumors using the BaseScope in situ hybridization assay.

Download it from the Precision Oncology News [White Paper Channel.](https://www.precisiononcologynews.com/resources/white-papers/visualize-kras-point-mutations-using-basescope-ish)

**ACD White Paper 26**

Title: Highly Multiplexed Spatial Mapping Using an In Situ Hybridization Assay

Body: This scientific poster by ACD presents highly multiplexed spatial mapping of diverse gene signatures and cell type specific markers across the mouse brain using the RNAscope HiPlexUp in situ hybridization assay.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/highly-multiplexed-spatial-mapping-using-rnascope-hiplexup-ish-assay)

**ACD White Paper 27**

Title: Detect Small Regulatory RNAs with Spatial & Morphological Context

Body: This scientific poster by ACD presents miRNAscope, a novel in situ hybridization technology for the detection of small regulatory RNAs with spatial and morphological context.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/detect-small-regulatory-rnas-spatial-morphological-context)

**ACD Webinar 1**

Title: Visualization of lgr5+ Stem Cells and the Immune Response in the Inflamed Mouse Colon

Body: In this on-demand webinar, ACD demonstrates the utility of the RNAscope technology in elucidating direct effects of inflammatory cues on intestinal stem cells, and their niche, during pathogenesis of intestinal bowel disease and other inflammatory diseases.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/visualization-lgr5-stem-cells-and-immune-response-inflamed-mouse-colon-rnascope)

**ACD Webinar 2**

Title: Single-Cell Biology Research with the RNAscope Technology

Body: In this on-demand webinar from ACD, watch scientists describe the power of in situ transcriptomics and discuss the application of this technology to large-scale tissue mapping in the mouse brain.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/single-cell-biology-research-rnascope-technology-utilize-rnascope-assays)

**ACD Webinar 3**

Title: Characterizing Complex Tissues with Spatial Genomics Using the RNAscope Technology

Body: In this on-demand webinar from ACD, learn how RNAscope and GeoMx DSP Technologies are advancing the field of spatial genomics.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/characterizing-complex-tissues-spatial-genomics-using-rnascope-technology)

**ACD Webinar 4**

Title: Viral Pathogenesis Research: Molecular Detection with RNA ISH

Body: In this on-demand webinar ACD demonstrates how RNA in situ hybridization offers molecular detection coupled with morphological context to enable visualization of viruses, such as SARS-CoV-2, in infected tissues and cell types.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/viral-pathogenesis-research-molecular-detection-rnascope)

**ACD Webinar 5**

Title: Spatial Profiling to Assess a Novel Gene Therapy

Body: This on-demand webinar by ACD discusses the use of digital spatial profiling to test a gene therapy for a rare neurodevelopmental disease that causes severe seizures, global developmental delay, and limits a patient’s ability to communicate.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/spatial-profiling-assess-novel-gene-therapy-mouse-model-rare-genetic-disorder)

**ACD GW Webinar 6**

Title: Spatial Expression Analyses Elucidate Mechanisms of circRNAs in Cancer

Body: In this on-demand webinar, Lasse Sommer Kristensen of Aarhus University describes his team’s work studying the role of circRNAs in cancer.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/spatial-expression-analyses-elucidate-mechanisms-circrnas-cancer)

**ACD PON Webinar 6**

Title: Spatial Expression Analyses Elucidate Mechanisms of circRNAs in Cancer

Body: In this on-demand webinar, Lasse Sommer Kristensen of Aarhus University describes his team’s work studying the role of circRNAs in cancer.

Download it from Precision Oncology News [Webinar Library](https://www.precisiononcologynews.com/resources/webinars/spatial-expression-analyses-elucidate-mechanisms-circrnas-cancer)

**ACD Webinar 7**

Title: Spatial Profiling of Lung Tissue from SARS-CoV-2-Positive Rapid Autopsies  
  
Body: This on-demand webinar from ACD discusses a project at the Broad Institute to use spatial profiling to understand the disease progression of COVID-19.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/spatial-profiling-lung-tissue-sars-cov-2-positive-rapid-autopsies)

**Sunquest White Paper 1**

Title: Powering Precision Medicine at Apollo Genetics: A GenomeWeb eCase Study Transcript  
  
Body: This transcript is from a GenomeWeb eCase Study in which Dr. Jason Walker, Clinical Lab Director of Apollo Genetics, spoke about his experiences building an end-to-end laboratory information management system and genetic variant analysis support tool.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/powering-precision-medicine-apollo-genetics-genomeweb-ecase-study-transcript)

**Sunquest Webinar 1**

Title: Powering Precision Medicine at Apollo Genetics

Body: In this e-case study video, learn how Apollo Genetics is leveraging software from Sunquest to scale for volume and complexity, while maximizing efficiency and quality for patients and physicians.

View [eCase Study](https://www.genomeweb.com/resources/webinars/powering-precision-medicine-apollo-genetics)

**St. Jude Webinar 1**

Title: Getting Your Head in the Cloud

Body: In this video, Kirby Birch, Senior Product Owner of St. Jude Cloud, provides a first-hand look of the St. Jude Cloud ecosystem, including a deeper dive of its Genomics Platform, PeCan, and Visualization Community apps.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/getting-your-head-cloud)

**Seven Bridges Whitepaper 1**

Title: Tools and Workflows Optimized for Processing Single-Cell Data: A GenomeWeb eCase Study Transcript

Body: This transcript is from a GenomeWeb eCase Study in which Manisha Ray and Nemanja Vucic of Seven Bridges shared details of a research project that used single-cell RNA-sequencing to study tumor endothelial cells over time.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/tools-and-workflows-optimized-processing-single-cell-data-genomeweb-ecase)

**Seven Bridges eCase Study 1**

Title: Optimized Workflows for Single-Cell Data

Body: This on-demand eCase study video outlines new software tools for processing data from single-cell experiments.

Download it from GenomeWeb’s [eCase Study Channel.](https://www.genomeweb.com/resources/webinars/tools-and-workflows-optimized-processing-single-cell-data)

**SeraCare White Paper 6**

Title: How to Develop a Clinical NGS Assay Without Losing Your Mind or Your Shirt

Body: This guide from SeraCare discusses how to overcome many challenges faced in developing clinical NGS-based assays, including advice on how many rare variants to include as well as controlling costs.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/how-develop-clinical-ngs-assay-without-losing-your-mind-or-your-shirt)

**SeraCare White Paper 7**

Title: Patient-Like Circulating Tumor DNA Reference Materials for Evaluation of NGS Tests

Body: This poster details how SeraCare’s purpose-built ctDNA reference material has greatly improved patient-like properties compared to materials produced by sonication alone, and may be effectively used to evaluate assay performance.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/patient-circulating-tumor-dna-reference-materials-evaluation-next-generation)

**Seracare Whitepaper 13**

Title : Two Tools for Overcoming Your Clinical Lab's Toughest Quality Control Challenges

Body : This white paper from SeraCare shares recommendations on how to achieve accurate, precise, and consistent results when validating NGS assays.

Download it from GenomeWeb's White Paper Channel

URL: <https://www.genomeweb.com/resources/white-papers/2-tools-overcoming-your-clinical-lab-s-toughest-quality-control-challenges>

**SeraCare White Paper 31**

Title: Characterization of Tumor Normal Cell Line Pairs for TMB Standardization

Body: In this scientific poster from SeraCare, learn about the need for reference standards to implement and harmonize TMB measurements derived from different NGS assays.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/characterization-tumor-normal-cell-line-pairs-tmb-standardization)

**SeraCare White Paper 32**

Title: A Multi-Laboratory Investigation of 18 Oncogenic RNA Fusions in FFPE and Purified RNA-based Reference Materials

Body: This scientific poster from SeraCare reviews the Seraseq Fusion RNA v4 standards, in both purified and FFPE formats, that include more common fusions of ALK, RET, and ROS1, as well as rare fusion events such as PAX-PPARG and ETV6-NTRK3.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/multi-laboratory-investigation-18-oncogenic-rna-fusions-ffpe-and-purified-rna)

**SeraCare White Paper 33**

Title: Development of SNP Matched NIPT Reference Materials for Validation, Proficiency Testing, and Quality Control

Body: In this scientific poster from SeraCare, learn of a technology that amplifies and stabilizes NIPT reference materials derived from circulating cell free DNA (ccfDNA) from pregnant donors.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/development-snp-matched-nipt-reference-materials-validation-proficiency)

**SeraCare White Paper 34**

Title: Circulating Tumor DNA (ctDNA) Reference Materials for Commercial RT PCR Assays

Body: This scientific poster from SeraCare outlines “patient like” circulating tumor DNA EGFR and BRAF reference standards designed for cfDNA-based PCR assays used to monitor patients on anti-EGFR or anti-BRAF therapies.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/circulating-tumor-dna-ctdna-reference-materials-commercial-rt-pcr-assays)

**SeraCare White Paper 35**

Title: Amplified ccfDNA for Assay Development, Validation, and Proficiency Testing

Body: In this scientific poster from SeraCare learn about a method to amplify ccfDNA so that nanograms of input can generate micrograms of output that would be sufficient for hundreds to thousands of tests.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/amplified-ccfdna-assay-development-validation-and-proficiency-testing)

**SeraCare GW White Paper 36**

Title: NGS-based Reference Materials for Fusion and Somatic Variant Detection in Myeloid Cancers

Body: Download this poster from SeraCare to learn how they characterized NGS-based reference materials for fusion and somatic variant detection in myeloid cancers.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/ngs-based-reference-materials-fusion-and-somatic-variant-detection-myeloid)

**SeraCare PON White Paper 36**

Title: NGS-based Reference Materials for Fusion and Somatic Variant Detection in Myeloid Cancers

Body: Download this poster from SeraCare to learn how they characterized NGS-based reference materials for fusion and somatic variant detection in myeloid cancers.

Download it from the Precision Oncology News [White Paper Channel](https://www.precisiononcologynews.com/resources/white-papers/ngs-based-reference-materials-fusion-and-somatic-variant-detection-myeloid)

**SeraCare White Paper 37**

Title: Reference Materials for Measurable Residual Disease (MRD) Monitoring

Body: Download this poster to learn how SeraCare characterized its reference materials for measurable residual disease monitoring.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/reference-materials-measurable-residual-disease-mrd-monitoring)

**SeraCare White Paper 38**

Title: Development of Reference Material for Blood Tumor Mutational Burden Measurement

Body: Download this poster to learn how SeraCare developed a reference material for blood tumor mutational burden measurement.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/development-reference-material-blood-tumor-mutational-burden-measurement)

**SeraCare White Paper 39**

Title: Performance of a Formalin-Damaged Tumor Mutation Reference Material

Body: Download this poster from SeraCare to learn about a formalin-damaged, multiplexed biosynthetic FFPE reference material that mimics the damage found in patient samples. This patient-like control can be used to assess the entire tumor profiling workflow.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/development-and-performance-formalin-damaged-multiplexed-dna-tumor-mutation)

**SeraCare White Paper 40**

Title: Development of Matched Maternal-Fetal NIPT Reference Materials Compatible with a Broad Range of Assay Methods

Body: Download this poster from SeraCare to learn how to assure quality of NIPT tests and concordance of test results between various platforms.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/development-matched-maternal-fetal-noninvasive-prenatal-testing-nipt)

**SeraCare White Paper 41**

Title: Experience with SARS-CoV-2 Assay Validation: A GenomeWeb eCase Study Transcript

Body: This transcript is from a GenomeWeb eCase Study in which Jeff SoRelle, Clinical Pathology Resident at UT Southwestern Medical Center, shared his experiences validating an in-house assay for SARS-CoV-2.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/experience-sars-cov-2-covid-19-assay-validation-genomeweb-ecase-study)

**SeraCare White Paper 42**

Title: Rapid Implementation of SARS-CoV-2 Testing: A GenomeWeb eCase Study Transcript

Body: This transcript is from a GenomeWeb eCase Study in which Joel Lefferts of Dartmouth-Hitchcock Medical Center shared his experience implementing and validating SARS-CoV-2 testing.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/rapid-implementation-sars-cov-2-testing-genomeweb-ecase-study-transcript)

**SeraCare White Paper 43**

Title: Expert Advice Establishing a SARS-CoV-2 Assay for COVID-19: A GenomeWeb eCase Study Transcript

Body: This transcript is from a GenomeWeb eCase Study in which Russell Garlick, Chief Scientific Officer at LGC SeraCare Life Sciences, discussed how AccuPlex reference materials can be used to validate SARS-CoV-2 assays.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/expert-advice-establishing-sars-cov-2-assay-covid-19-genomeweb-ecase-study)

**SeraCare White Paper 44**

Title: Germline Insights from NGS Somatic Testing: Clinical Challenges and Controversies

Body: This GenomeWeb report is based on a virtual roundtable that discussed challenges, opportunities, and controversies related to informing clinicians, cancer patients, and their families of potential germline insights after receiving somatic testing.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/germline-insights-ngs-somatic-testing-clinical-challenges-and-controversies)

**SeraCare White Paper 45**Title: Development and Validation of Blood Tumor Mutational Burden Reference Standards  
  
Body: This whitepaper from SeraCare discusses the development of contrived bTMB reference materials using DNA from tumor cell lines and donor matched lymphoblastoid cell lines to support calibration and alignment across different laboratories and bTMB platforms.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/development-and-validation-blood-tumor-mutational-burden-reference-standards)

**SeraCare Webinar 32**

Title: New Tools and Strategies for High-Quality TMB Analysis by NGS

Body: This on-demand webinar from SeraCare discusses the challenges of accurately measuring TMB in blood and tissue, and the development and application of reference materials to ensure the quality, standardization, and harmonization of TMB measurement by NGS.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/new-tools-and-strategies-high-quality-tmb-analysis-ngs)

**SeraCare Webinar 33**

Title: Technical and Regulatory Considerations for Designing NGS Controls and Standards: A Panel Discussion

Body: In this on-demand webinar from SeraCare, an expert panel discusses technical and regulatory considerations for designing NGS controls and standards.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/technical-and-regulatory-considerations-designing-next-generation-sequencing)

**SeraCare Webinar 34**

Title: Germline Insights from NGS Somatic Testing: Clinical Challenges and Controversies

Body: This on-demand recording of an expert roundtable discuss challenges and opportunities related to informing clinicians, cancer patients, and their families of potential germline insights after receiving somatic testing.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/germline-insights-ngs-somatic-testing-clinical-challenges-and-controversies)

**SeraCare Webinar 360dx 35**

Title: Diagnostic Challenges in Cancer Immunotherapy: An Expert Panel Discussion

Body: This on-demand virtual roundtable features a panel of experts in the field who provide key insights into current advances in cancer diagnostics and immunotherapy, as well as challenges facing the discipline.

Download it from 360Dx’s [Webinar Library](https://www.360dx.com/resources/webinars/diagnostic-challenges-cancer-immunotherapy-expert-panel-discussion)

**SeraCare Webinar GW 35**

Title: Diagnostic Challenges in Cancer Immunotherapy: An Expert Panel Discussion

Body: This on-demand virtual roundtable features a panel of experts in the field who provide key insights into current advances in cancer diagnostics and immunotherapy, as well as challenges facing the discipline.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/diagnostic-challenges-cancer-immunotherapy-expert-panel-discussion)

**SeraCare Webinar 36**

Title: Moving from Non-Invasive Prenatal Screening to Prenatal Diagnostics: An Expert Panel Discussion

Body: This on-demand webinar features a panel of experts who provide key insights into the current needs in prenatal testing, the complexities of selecting an assay format and performing quality control, as well as other challenges that labs face when setting up and validating an NIPT assay.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/moving-non-invasive-prenatal-screening-prenatal-diagnostics-expert-panel)

**SeraCare eCase Study Video 1**

Title: Expert Advice Establishing a SARS-CoV-2 Assay for COVID-19

Body: In this eCase Study video from SeraCare learn how Accuplex SARS-CoV-2 Reference Materials are meeting the immediate need for validating the performance of coronavirus assays.

Download it from GenomeWeb’s [eCase Study Videos](https://www.genomeweb.com/resources/webinars/expert-advice-establishing-sars-cov-2-assay-covid-19)

**SeraCare eCase Study Video 2**

Title: Rapid Implementation of SARS-CoV-2 Testing

Body: In this eCase Study video from SeraCare, hear how Dr. Joel Lefferts and his team at the Dartmouth-Hitchcock Medical Center were able to rapidly increase, through automation, their SARS-CoV-2 assay on the Abbott m2000.

Download it from GenomeWeb’s [eCase Study Videos](https://www.genomeweb.com/resources/webinars/rapid-implementation-sars-cov-2-testing)

**SeraCare eCase Study Video 3**

Title: Experience with SARS-CoV-2 (COVID-19) Assay Validation

Body: In this 20 minute eCase Study from SeraCare you will hear first-hand how Dr. Jeff SoRelle and his team at the University of Texas Southwestern Medical Center developed and validated a COVID-19 RT PCR assay.

Download it from GenomeWeb’s [eCase Study Videos](https://www.genomeweb.com/resources/webinars/experience-sars-cov-2-covid-19-assay-validation)

**SomaLogic White Paper 1**

Title: Bringing Proteomics to NASH and NAFLD with the SomaScan Assay

Body: This white paper discusses non-invasive fatty liver profiling by measuring thousands of proteins simultaneously. Read the white paper to learn how to get the most out of your NASH and NAFLD clinical samples with the world’s most impactful protein assay.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/serum-protein-signatures-non-invasive-tool-monitoring-nonalcoholic)

**SomaLogic White Paper 2**

Title: Proteomic Technologies Shed Light on Cardiovascular Disease

Body: Circulating protein biomarkers offer a reliable tool for prediction of cardiovascular diseases. This white paper demonstrates the promise of this approach by highlighting publications in which the SomaScan Assay was used to identify proteins associated with CVD risk and outcomes.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/detection-low-abundance-serum-proteins-associated-cardiovascular-diseases)

**SomaLogic White Paper 3**

Title: Circulating Proteins Predict Patient Response to Immunotherapy

Body: Circulating protein biomarkers are a promising avenue for predicting patient response to cancer immunotherapies. The SomaScan Assay performs 5,000 blood-based protein measurements simultaneously. Read this white paper to learn how you can apply the world’s largest protein assay to immuno-oncology.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/circulating-protein-biomarkers-are-promising-avenue-predicting-patient)

**SomaLogic White Paper 4**

Title: Translate Genetic Information into Biological Insights with Proteomics

Body: Read this white paper from SomaLogic to learn about pQTL (protein quantitative trait locus) analysis, a new approach for translating genetic information into meaningful biological insights. The quality of pQTLs depends on the quality of proteomic technology used to find them. The SomaScan Assay offers the quality and ability to deliver the data needed to find pQTLs that decrypt the genome.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/pqtl-analysis-latest-tool-disease-research)

**SomaLogic White Paper 5**

Title: Identifying Protein Biomarkers for COVID-19 Patient Outcomes

Body: Developing successful COVID-19 treatments depends on identifying individual differences that influence disease outcomes. The SomaScan Assay can provide such insights by measuring 5,000 proteins at once. Learn from this white paper how infectious disease researchers have used the SomaScan Assay.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/covid-19-and-somascan-platform)

**SomaLogic White Paper 6**

Title: Detection of Low-Abundance Serum Proteins Associated with Prediabetes for Predictive and Prognostic Purposes

Body: This whitepaper from SomaLogic highlights several groundbreaking studies that have made headway towards identifying and characterizing serum protein biomarkers for T2DM and prediabetes using the SomaScan Assay.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/detection-low-abundance-serum-proteins-associated-prediabetes-predictive-and)

**SomaLogic Webinar 1**

Title: Circulating Proteins Can Predict Age and Age-Related Disease  
  
Body: Learn how proteomics redefines aging in this on-demand webinar from SomaLogic. Speakers share insights recently published in Nature Medicine on age-related expression patterns of around 3,000 newly profiled proteins. Highlights include targeting aging and frailty and how we can learn from those who live longest.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/aging-and-proteome-how-die-young-very-old-age)

**SomaLogic Webinar 2**

Title: Discover the Missing Link Between Genetics and Complex Disease  
  
Body: It takes a multi-omic approach to understand complex diseases. This on-demand webinar from SomaLogic discusses how 5,000 protein measurements from the SomaScan Assay can complement genome and epigenome-wide associations in a multi-omics workflow.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/proteomics-missing-link-between-gwas-ewas-and-disease-endpoints)

**SomaLogic Webinar 3**

Title: Could Proteomics from 55 Microliters of Blood Eliminate Nine Doctor’s Visits?  
  
Body: In this on-demand webinar from SomaLogic, presenters discuss key findings from a recent study published in Nature Medicine in which researchers used the SomaScan Assay to measure approximately 5,000 proteins and develop models to predict current and future health.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/plasma-protein-patterns-comprehensive-indicators-health)

**SomaLogic Webinar 4**

Title: Detect Four Key NASH Indicators with a Single Liquid Biopsy   
  
Body: Download this on-demand webinar to learn about the SomaSignal NASH Bundle, a protein scanning test for NASH (nonalcoholic steatohepatitis) that measures steatosis, inflammation, fibrosis, and ballooning.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/liquid-liver-biopsy-predicting-nash-and-nafld-serum-protein-biomarkers)

**SomaLogic Webinar 5**

Title: What Can Proteomics Teach Us About Infectious Disease?

This on-demand webinar from SomaLogic describes the use of the SomaScan Assay to identify biological processes associated with infection, including an analysis of the cellular response to Zika and influenza and an exploration of how the SomaScan Assay could be used to study COVID-19

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/what-can-proteomics-teach-us-about-infectious-disease)

**SomaLogic Webinar 6**

Title: Building a Genetic Atlas of the Human Plasma Proteome

This on-demand webinar from SomaLogic describes a study that used the SomaScan Assay to build an atlas of the human plasma proteome. The study used 3,622 protein measurements in 3,301 participants to link GWAS variants to disease and identify potential therapeutic targets.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/building-genetic-atlas-human-plasma-proteome)

**Seegene White Paper 2**

Title: Performance of an Extraction-Free SARS-CoV-2 Assay

Body: This scientific poster by SeeGene compares clinical performance of an extraction-free SARS-CoV-2 assay to a conventional RNA extraction process using an automated platform.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/performance-sars-cov-2-assay-extraction-free-method-compared-conventional-rna)

**Sony White Paper 1**Title: Approaches to Optimizing Samples for RNA Sequencing  
  
Body: This whitepaper from Sony highlights the important role of single-cell isolation methods for scRNA sequencing of complex biological samples.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/approaches-optimizing-samples-rna-sequencing)

**SP Industries GW White Paper 1 (Retired )**Title: PCR Diagnostic Kits & Freeze-Drying Considerations

Body: This technical note from SP Industries discusses the considerations and potential solutions for freeze-drying PCR reagents and diagnostic kits.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/pcr-diagnostic-kits-freeze-drying-considerations)

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**SP Industries GW White Paper 2 ( Retired )**Title: Freeze-Drying COVID-19 Diagnostics: Formulation & Process Development and Lyophilizer Selection

Body: This technical note discusses various aspects of formulation and cycle development in the lyophilization of diagnostic reagents, including those required for COVID-19 testing.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/freeze-drying-covid-19-diagnostics-formulation-process-development-and)

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**SP Industries GW White Paper 3 ( Retired )**Title: Using Parallel Evaporators to Escalate COVID-19 Test Kit Preparation

Body: Download this White Paper from SP Industries to learn how SP Genevac supported laboratories around the world to scale up their production of PCR test kits to aid the global fight against the COVID-19 virus.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/using-parallel-evaporators-escalate-covid-19-test-kit-preparation)

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Download it from 360Dx’s [White Paper Channel.](https://www.360Dx.com/resources/white-papers/using-parallel-evaporators-escalate-covid-19-test-kit-preparation)

**SP Industries GW White Paper 4 ( Retired )**Title: Accelerating Probe and Primer Production to Enable COVID-19 Testing

Body: Download this white paper to learn how LGC, Biosearch Technologies, is using SP Genevac technology to facilitate the rapid production of probes and primers for COVID-19 test kit development.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/lgc-biosearch-technologies-accelerate-probe-and-primer-production-enable)

**SP Industries 360Dx White Paper 4 ( Retired )**Title: Accelerating Probe and Primer Production to Enable COVID-19 Testing

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**LabVantage GW White Paper 1**

Title: Positioning Your Diagnostics Lab for Success

Body: This white paper by LabVantage describes the benefits of deploying an industry-specific LIMS and how that positions your diagnostics lab for success.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/positioning-your-diagnostics-lab-success)

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Download it from 360Dx’s [White Paper Channel](https://www.360dx.com/resources/white-papers/positioning-your-diagnostics-lab-success)

**LGC Group White Paper 3**

Title: An Alternative for Array Genotyping in Routine Breeding Programs  
  
Body: This white paper from LGC, Biosearch Technologies describes a cost-efficient, flexible, and scalable mid-plex genotyping platform that enables the assessment of complex traits in all modern breeding programs and is ideal for genomic selection.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/seqsnp-targeted-gbs-alternative-array-genotyping-routine-breeding-programs)

**LGC Group White Paper 4**

Title: High-Speed and High-Throughput Genomic Selection for Plants and Livestock  
  
Body: In this white paper from LGC, Biosearch Technologies learn how the SeqSNP process can take a range of input sample quantities and produce high-quality genotyping data in a fraction of the time required by most NGS workflows.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/seqsnp-massively-parallel-marker-screening-approach-high-speed-and-high)

**LGC Group White Paper 5**

Title: High-Throughput SNP Discovery and Genotyping Using Normalized Genotyping-By-Sequencing  
  
Body: This white paper from LGC, Biosearch Technologies highlights a self-tuning Genotyping-by-Sequencing (GBS) method, called normalized GBS (nGBS), which efficiently reduces the genome complexity of any species to a few hundred thousand loci across the complete genome.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/efficient-high-throughput-snp-discovery-and-genotyping-using-normalised)

**LGC Group White Paper 6**

Title: Overcoming Agricultural and Human Health Challenges with KASP Genotyping Chemistry  
  
Body: In this collection of white papers and application notes from LGC, Biosearch Technologies, learn how scientists use KASP technology to overcome genomic challenges around the globe.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/overcoming-agricultural-and-human-health-challenges-kasp-genotyping-chemistry)

**LGC Group White Paper 7**

Title: Solving the Trade-Off Between Trait Accuracy and Higher Throughput Costs with KASP Genotyping Chemistry  
  
Body: In this whitepaper from LGC, Biosearch Technologies, learn how Sime Darby Plantation brings trait accuracy at low cost to their sustainable palm oil breeding program with KASP genotyping chemistry.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/sime-darby-plantation-solves-trade-between-trait-accuracy-and-higher)

**LGC Mdx GW White Paper 8**

Title: How to Choose a Molecular Diagnostics Supplier

Body: In this whitepaper from LGC, Biosearch Technologies learn how to choose a molecular diagnostics supplier and minimize the time it takes to get your product to market.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/how-choose-molecular-diagnostics-supplier)

**LGC Mdx 360DxWhite Paper 8**

Title: How to Choose a Molecular Diagnostics Supplier

Body: In this whitepaper from LGC, Biosearch Technologies learn how to choose a molecular diagnostics supplier and minimize the time it takes to get your product to market.

Download it from 360Dx’s [White Paper Channel](https://www.360dx.com/resources/white-papers/how-choose-molecular-diagnostics-supplier)

**LGC Mdx GW White Paper 9**

Title: Six Tips for Early-Stage MDx Companies Seeking Successful Commercialization

Body: This interview with advisor Harry Glorikian and LGC, Biosearch Technologies Senior R&D Director, Sébastien Chapdelaine, describes six tips that MDx startups can follow to establish a path that can take them from early research through to global commercialization.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/6-tips-early-stage-mdx-companies-seeking-successful-commercialisation)

***correct link:*** [***https://www.genomeweb.com/resources/white-papers/six-tips-early-stage-mdx-companies-seeking-successful-commercialization***](https://www.genomeweb.com/resources/white-papers/six-tips-early-stage-mdx-companies-seeking-successful-commercialization)

**LGC Mdx 360Dx White Paper 9**

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Download it from 360Dx’s [White Paper Channel](https://www.360dx.com/resources/white-papers/6-tips-early-stage-mdx-companies-seeking-successful-commercialisation)

***correct link:*** [***https://www.360dx.com/resources/white-papers/six-tips-early-stage-mdx-companies-seeking-successful-commercialization***](https://www.360dx.com/resources/white-papers/six-tips-early-stage-mdx-companies-seeking-successful-commercialization)

**LGC Group GW White Paper 10**

Title: Lessons on Sample Accessioning and Processing at Clinical Labs During the COVID-19 Pandemic

Body: This e-book from LGC, Biosearch Technologies details the major challenges labs have faced in sample accessioning and processing during the COVID-19 pandemic and describes how they have adapted to handle the sustained demand for large-scale testing.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/lessons-sample-accessioning-and-processing-clinical-labs-during-pandemic)

**LGC Group 360Dx White Paper 10**

360Dx

Title: Lessons on Sample Accessioning and Processing at Clinical Labs During the COVID-19 Pandemic

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Download it from 360Dx’s [White Paper Channel](https://www.360dx.com/resources/white-papers/lessons-sample-accessioning-and-processing-clinical-labs-during-pandemic)

**LGC Group Webinar 1**

Title: Utilizing Targeted SNP-Based Genotyping to Rapidly Introgress Interspecific Germplasm

Body: In this on-demand webinar from LGC, Biosearch Technologies, Robert Vaughn at Texas A&M discusses development of KASP assays targeting polymorphisms in the cotton genome.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/utilizing-targeted-snp-based-genotyping-rapidly-introgress-interspecific)

**LGC Group Webinar 2**

Title: Utilization and Implementation of Molecular Markers in a Public Rice Breeding Program

Body: This on-demand webinar from LGC, Biosearch Technologies discusses how the LGC, Biosearch Technologies KASP chemistry and SNPline system is making molecular markers an integral component of the rice development process by lowering the cost per datapoint and increasing throughput.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/utilization-and-implementation-molecular-markers-public-rice-breeding-program)

**LGC Group Webinar 3**

Title: Rapid Assessment of Novel Alleles and QTL Through Background Genome Selection

Body: In this on-demand webinar, David Francis of Ohio State University discusses how his lab leveraged KASP to develop more than 7,000 SNP assays in tomato, leading his project from knowledge of sequence variations to functional characterization.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/rapid-assessment-novel-alleles-and-qtl-through-background-genome-selection)

**LGC Group Webinar 4**

Title: KASP technology accelerates rice improvement in South Asia

Body: In this on-demand webinar from LGC, Biosearch Technologies, join Dr. Katherine Steele of Bangor University as she explores how KASP is used to successfully genotype diverse rice varieties, and how KASP technology can be applied in molecular breeding.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/targeted-genotyping-sequencing-routine-breeding-pragmatic-application-and-process)

**LumiraDx GW White Paper 1**Title: Use of a SARS-CoV-2 Antigen Test in Pediatric Practice  
  
Body: This case study describes the use of a SARS-CoV-2 Antigen Test on the LumiraDx Platform at a pediatric group practice.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/use-lumiradx-sars-cov-2-antigen-test-pediatric-practice)

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**LumiraDx GW White Paper 2**Title: Performance Evaluation of a SARS-CoV-2 Antigen Test at the Point of Care  
  
Body: This white paper describes a prospective cohort study conducted to evaluate the LumiraDx SARS-CoV-2 antigen Test among children and adults who presented for COVID-19 testing.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/performance-evaluation-lumiradx-sars-cov-2-antigen-test-aid-diagnosis-acute)

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**LumiraDx GW White Paper 3**Title: An Evaluation of the Detection of SARS-CoV-2 Antigen in a Cohort of Symptomatic and Asymptomatic Patients

Body: This white paper describes an assessment of the diagnostic performance and user-friendliness of the LumiraDx SARSCoV-2 Ag Test when used under real-life conditions by intended users in a dedicated COVID-19 testing center with symptomatic and asymptomatic subjects.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/evaluation-detection-sars-cov-2-antigen-cohort-symptomatic-and-asymptomatic)

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**Millipore Sigma White Paper 1**

Title: Vetting a Contract Manufacturing Partner for Your Clinical Diagnostics Kit  
  
Body: In this whitepaper from Millipore Sigma, learn how to choose a contract manufacturing partner for your clinical diagnostics kit.

Download it from GenomeWeb’s [White Paper Channel.](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.genomeweb.com%2Fresources%2Fwhite-papers%2Fvetting-contract-manufacturing-partner-your-clinical-diagnostics-kit&data=04%7C01%7Ckevin.churak%40genomeweb.com%7Cb1ad52663f4249ab3e7308d88d8dd71d%7C2c6dce2dd43a4e78905e80e15b0a4b44%7C0%7C0%7C637414987644582234%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=5VuQX11S9Bw9GbVviQwciHGJqQ8gfJenYDpF8Ha63p0%3D&reserved=0)

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**Millipore Sigma GW White Paper 2**

Title: Is Your Clinical Diagnostics Manufacturer Able to Weather Supply Chain Challenges?

Body: In this whitepaper from Millipore Sigma learn how Covid-19-driven regional manufacturing shutdowns, surge demands, and logistics disruptions have placed significant pressure on clinical diagnostic supply chains, resulting in raw material shortages and delays.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/your-clinical-diagnostics-contract-manufacturer-prepared-weather-supply-chain)

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**Millipore Sigma TT GW White Paper 4**Title: Contract Manufacturing Case Studies: Custom Solutions for IVD Manufacturing  
  
Body: This case study series from Millipore Sigma presents 10 examples of IVD developers with a range of challenges that forced them to decide whether to develop their manufacturing capabilities in-house or outsource them.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/contract-manufacturing-case-studies-custom-solutions-ivd-manufacturing)

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**Millipore Sigma TT GW White Paper 5**Title: Development of a Quantitative Lateral Flow Test Using Europium Microspheres  
  
Body: This application note from Millipore Sigma is a step-by-step guide to developing a quantitative lateral flow test using Estapor Europium Microspheres. The protocols for microsphere conjugation and test strip manufacture may be applied to different antibodies for the detection of alternative antigens.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/development-quantitative-lateral-flow-test-using-estapor-europium)

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**Millipore Sigma TT GW White Paper 6**Title: Performance of Estapor Microspheres and Hi-Flow Plus Membranes in a Lateral Flow Assay   
  
Body: In this report Millipore Sigma examines the relationship between microsphere size, membrane flow rate, and assay sensitivity, using blue Estapor carboxyl-modified dyed microspheres and Hi-Flow Plus membranes.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/performance-estapor-microspheres-and-hi-flow-plus-membranes-lateral-flow)

**Millipore Sigma TT 360Dx White Paper 6**Title: Performance of Estapor Microspheres and Hi-Flow Plus Membranes in a Lateral Flow Assay   
  
Body: In this report Millipore Sigma examines the relationship between microsphere size, membrane flow rate, and assay sensitivity, using blue Estapor carboxyl-modified dyed microspheres and Hi-Flow Plus membranes.

Download it from 360Dx’s [White Paper Channel.](https://www.360dx.com/resources/white-papers/performance-estapor-microspheres-and-hi-flow-plus-membranes-lateral-flow)

**Millipore Sigma TT GW White Paper 7**Title: For In Vitro Diagnostic Materials: Efficacy vs. Thimerosal and Sodium Azide  
  
Body: This study by Millipore Sigma indicates that ProClin 150 and ProClin 300 preservatives can be effective replacements for thimerosal, and offer better protection than sodium azide, without the handling and disposal concerns associated with either traditional preservative.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/vitro-diagnostic-materials-efficacy-vs-thimerosal-and-sodium-azide)

**Millipore Sigma TT 360Dx White Paper 7**Title: For In Vitro Diagnostic Materials: Efficacy vs. Thimerosal and Sodium Azide  
  
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Download it from 360Dx’s [White Paper Channel.](https://www.360Dx.com/resources/white-papers/vitro-diagnostic-materials-efficacy-vs-thimerosal-and-sodium-azide)

**Millipore Sigma TT GW White Paper 8**Title: In-Depth Technical Analysis of an IVD Reagent Preservative  
  
Body: This application note by Millipore Sigma details the properties of ProClin 300 preservative, a highly effective biocide for the control of microorganisms in reagents and products intended for in vitro diagnostic use.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/proclin-300-preservative-depth-technical-analysis)

**Millipore Sigma TT 360Dx White Paper 8**Title: In-Depth Technical Analysis of an IVD Reagent Preservative  
  
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Download it from 360Dx’s [White Paper Channel.](https://www.360Dx.com/resources/white-papers/proclin-300-preservative-depth-technical-analysis)

**Millipore Sigma TT GW White Paper 9**Title: 10 Strategic Considerations When Outsourcing Production of In Vitro Diagnostics

Body: This white paper from Millipore Sigma highlights 10 important benefits of outsourcing and key considerations that should factor into the evaluation of an IVD partner, from investment to development capabilities.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/10-strategic-considerations-when-outsourcing-production-vitro-diagnostics)

**Millipore Sigma TT 360Dx White Paper 9**Title: 10 Strategic Considerations When Outsourcing Production of In Vitro Diagnostics

Body: This white paper from Millipore Sigma highlights 10 important benefits of outsourcing and key considerations that should factor into the evaluation of an IVD partner, from investment to development capabilities.

Download it from 360Dx’s [White Paper Channel.](https://www.360dx.com/resources/white-papers/10-strategic-considerations-when-outsourcing-production-vitro-diagnostics)

**Millipore Sigma TT GW Webinar 1**Title: Lateral Flow Test Strips: Design Considerations for Optimal Performance  
  
Body: This on-demand webinar from Millipore Sigma discusses some of the critical features of lateral flow test strip design that affect the consistency of performance of diagnostic assays.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/lateral-flow-test-strips-design-considerations-optimal-performance)

**Millipore Sigma TT 360Dx Webinar 1**Title: Lateral Flow Test Strips: Design Considerations for Optimal Performance  
  
Body: This on-demand webinar from Millipore Sigma discusses some of the critical features of lateral flow test strip design that affect the consistency of performance of diagnostic assays.

Download it from 360Dx’s [Webinar Library](https://www.360Dx.com/resources/webinars/lateral-flow-test-strips-design-considerations-optimal-performance)

**Millipore Sigma TT Webinar 2**Title: Best Practices for Using Microspheres in the Development of Fluorescent Lateral Flow Immunoassays  
  
Body: In this technical presentation, Millipore Sigma provides an introduction to AnteoBind nanocoating technology and the use of AnteoBind activated Estapor europium microspheres in lateral flow immunoassays.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/applying-anteobind-activated-estapor-europium-microspheres-development)

**Millipore Sigma TT GW Webinar 3**Title: Optimized Lateral Flow Assays Using Dyed and Fluorescent Microspheres  
  
Body: In this technical presentation Millipore Sigma discusses the use of polymeric microspheres in diagnostic assays, including a survey of the materials used in this field, examples of readers available for this growing market, and case studies.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/optimized-lateral-flow-assays-using-dyed-and-fluorescent-estapor-microspheres)

**Millipore Sigma TT 360Dx Webinar 3**Title: Optimized Lateral Flow Assays Using Dyed and Fluorescent Microspheres  
  
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Download it from 360Dx’s [Webinar Library](https://www.360dx.com/resources/webinars/optimized-lateral-flow-assays-using-dyed-and-fluorescent-estapor-microspheres)

**Mirus Bio Whit Paper 1**Title: Electroporation Made Easy for Hard-to-Transfect Cells  
  
Body: This white paper by Mirus Bio highlights the Ingenio EZporator Electroporation System, a cost-effective workhorse that addresses the issues researchers have with their hard-to-transfect cells while being mindful of budget.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/electroporation-made-easy-hard-transfect-cells)

**MicroGem Whitepaper 2**

Title: Efficient DNA Extractions for CRISPR Toolkits

Body: In this whitepaper from MicroGem, learn how important it is to use efficient DNA extractions and adequate DNA in order for CRISPR genotyping to be successful.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/efficient-dna-extractions-crispr-toolkits)

**MicroGem Whitepaper 3**

Title: Democratizing Molecular Biology: RNAGEM

Body: In this whitepaper from MicroGem, learn about a single-tube RNA extraction approach that solves the challenges of traditional methods, producing high-quality extracts in minutes, not hours.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/democratizing-molecular-biology-rnagem)

**MicroGem Webinar 1**

Title: A Simple, Single-Tube Approach To Process Sexual Assault Samples

Body: In this on-demand webinar from MicroGem, David Saul and Jo Stanton will highlight the quality of DNA extracted using the rapid PDQeX protocol compared to competing methodologies.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/simple-singe-tube-approach-process-sexual-assault-samples)

**correct url:** [**https://www.genomeweb.com/resources/webinars/simple-single-tube-approach-process-sexual-assault-samples**](https://www.genomeweb.com/resources/webinars/simple-single-tube-approach-process-sexual-assault-samples)

**MicroGem Webinar 2**

Title: A Novel Enzymatic System for Extracting Sequencing-Ready DNA In a Single Tube

Body: In this on-demand webinar by MicroGem, David Saul and Jo Stanton highlight the quality of DNA extracted using the rapid PDQeX protocol compared to competing methodologies.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/novel-dna-extraction-approach-sequencing-ready-dna-single-tube)

**MicroGem Webinar 3**

Title: Tips for Extracting DNA from Insects

Body: This on-demand webinar by MicroGem introduces a simple protocol for extracting DNA from insects using a single tube, without ionic detergents, magnetic beads, columns, or centrifugation.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/tips-extracting-dna-insects)

**MicroGem Webinar 4**

Title: Remote, Autonomous Molecular Analytical Laboratories

Body: In this on-demand webinar, Christina Preston, research specialist at the Monterey Bay Aquarium Research Institute, discusses the Environmental Sample Processor, an ecogenomic sensor that automates sample collection, handling, and analysis in remote field settings.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/remote-autonomous-molecular-analytical-laboratories)

***Nanostring White Paper 1 ( Retired )***

**Title:** Normalizing Spatial Transcriptome Data for Cancer Research

**Body:** This white paper from NanoString demonstrates basic quality control and normalization considerations for data from the Cancer Transcriptome Atlas, which spatially profiles targets critical to oncology and immuno-oncology research on the GeoMx Digital Spatial Profiler.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/introduction-geomx-cancer-transcriptome-atlas-normalization)

***Nanostring White Paper 2 ( Retired )***

**Title:** Robust Antibody Validation for Spatially Resolved Protein Expression Research

**Body:** This white paper reviews the multistep process NanoString follows to screen, conjugate, and validate oligo-tagged antibodies prior to incorporation into its GeoMx Digital Spatial Profiler.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/multi-step-antibody-validation-geomx-digital-spatial-profiler)

***Nanostring White Paper 3 ( Retired )***

**Title:** Design and Technical Performance of Spatially Resolved Human Whole Transcriptome Panel

**Body:** This poster details a benchmarking study performed on the Human Whole Transcriptome Atlas RNA panel for the GeoMx Digital Spatial Profiler, finding that the panel, which covers 99.5 percent of protein-coding genes, can detect transcripts present at one copy per cell and is concordant with other platforms.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/illuminating-transcriptome-design-and-technical-performance-whole)

***Nanostring White Paper 4 ( Retired )***

**Title:** Spatially Resolved Murine Whole Transcriptome Analysis

**Body:** This poster details a study testing the mouse Whole Transcriptome Atlas panel for the GeoMx Digital Spatial Profiler, finding that it shows high sensitivity and specificity, detects about 5,000 - 10,000 genes per AOI across a range of tissues, and recapitulates known biology.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/spatially-resolved-whole-transcriptome-analysis-mouse-using-geomx-digital)

***Nanostring White Paper 5 ( Retired )***

**Title:** Integrating Tools and Measures from Landscape Ecology to Study the Spatial Transcriptomics of Cancer

**Body:** This poster from NanoString describes a study that applied measures from landscape ecology to spatial transcriptomics data of a colorectal tumor, suggesting “landscape transcriptomics” approaches may be useful in understanding a variety of immune responses.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/topological-analysis-links-local-expression-dynamics-spatial-heterogeneity)

***Nanostring Webinar 1 ( Retired )***

**Title:** Overcoming Tumor Microenvironment Challenges with Spatial Profiling

**Body:** This on-demand webinar from Nanostring introduces the GeoMx Digital Spatial Profiler, which quantifies tens of thousands of RNA or protein targets in fresh frozen or FFPE tissue sections.

Download it from GenomeWeb’s [Webinar Library.](https://www.genomeweb.com/resources/webinars/resolving-tumor-microenvironment-challenges-through-geomx-digital-spatial)

***Nanostring Webinar 2 ( Retired )***

**Title:** High-Plex Spatial Analysis of Tissue Microenvironments

**Body:** This on-demand webinar from Nanostring reviews a whole-transcriptome spatial profiling application designed for RNA expression profiling of more than 18,000 genes in human and more than 21,000 genes in mouse.

Download it from GenomeWeb’s [Webinar Library.](https://www.genomeweb.com/resources/webinars/morphology-driven-high-plex-spatial-analysis-tissue-microenvironments)

**NanoCellect White Paper 4**

Title: Single-Cell Cloning for Cell Line Development  
  
Body: This whitepaper by NanoCellect discusses how both robust immortalized cell lines (e.g. CHO) and more sensitive cells can be used to generate monoclonal cell lines in a sterile format with little cellular stress.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/single-cell-cloning-cell-line-development)

**NanoCellect White Paper 5**

Title: Single-cell Sorting of T-Cells from a Heterogenous Population of Lyophilized Cells  
  
Body: In this whitepaper from NanoCellect learn about an easy-to-use system that can sort 300 cells per second without exerting stress on the cells or creating hazardous aerosols.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/single-cell-sorting-t-cells-hetergenous-population-lyophlized-cells)

**NVIDIA White Paper 1**

Title: Advancing Genomics in the Age of Big Data with GPU Acceleration  
  
Body: In this white paper from NVIDIA explore how Parabricks and Oxford Nanopore are using GPU acceleration to advance genomics research.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/advancing-genomics-age-big-data-gpu-acceleration)

**NVIDIA White Paper 2**

Title: Accelerating Genomic Discoveries for Precision Medicine

Body: This white paper by NVIDIA explains how GPU accelerated computing speeds genomic analysis from two days to one hour at one-fourth the cost and demonstrates the impact that this computing approach has had on leading genomic research centers.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/accelerating-genomic-discoveries-precision-medicine)

**NVIDIA White Paper 3**

Title: Accelerating Genome Sequencing Analysis with GPUs

Body: In this whitepaper from NVIDIA, learn how traditional CPU methods are not able to provide genomics researchers with the computing power they need and how GPUs are changing the game.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/accelerating-genome-sequencing-analysis-gpus)

**NVIDIA White Paper 4**

Title: AI in Genomics: Progress through Innovation

Body: In this white paper by NVIDIA, learn how artificial intelligence solutions and integrated data and cloud systems are being used to power genomic breakthroughs and enable new ways to address disease.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/ai-genomics-progress-through-innovation)

**NVIDIA Webinar 1**

Title: GPU-Accelerated Analysis of DNA Sequencing Data

Body: In this on-demand webinar, learn how Parabricks has accelerated the secondary analysis of sequencing data to analyze a 30x whole genome in minutes instead of days.

Download it from GenomeWeb’s [Webinar library](https://www.genomeweb.com/resources/webinars/gpu-accelerated-analysis-dna-sequencing-data)

**NVIDIA Webinar 2**

Title: Accelerated and AI-Based Genomic Workflows On-Premises and in the Cloud

Body: Watch this on-demand webinar for an in-depth understanding of how GPUs can be used to accelerate industry-standard bioinformatics algorithms and deep learning technologies used in variant calling.

Download it from GenomeWeb’s [Webinar library](https://www.genomeweb.com/resources/webinars/accelerated-and-ai-based-genomic-workflows-prem-and-cloud)

**NVIDIA Webinar 3**

Title: Oxford Nanopore Sequencing for COVID-19 Monitoring

Body: This on-demand webinar from NVIDIA explores how Oxford Nanopore sequencers, with GPU-accelerated analysis software, are being used to monitor and study the ongoing COVID-19 pandemic.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/oxford-nanopore-sequencing-covid-19-monitoring)

**Agilent Bioanalyzer Whitepaper 1**(RETIRED)Title: Exosomal miRNA Analysis from Liquid Biopsy

Body: This application note describes a study that determined that the Agilent miRNA microarray is a powerful tool to detect and analyze miRNAs from liquid biopsy without modifying the standard microarray procedure.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/exosomal-mirna-analysis-agilent-bioanalyzer-and-sureprint-mirna-microarray)

**Agilent Whitepaper 1**(RETIRED)

Title: Bridging the Efficiency and Throughput Gap in NGS Library Preparation

Body: This whitepaper from Agilent describes a solution that provides a balanced alternative to a traditional liquid handling automation or manual workflow for NGS library preparation.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/bridging-efficiency-and-throughput-gap-magnis-automated-ngs-library)

**Agilent Webinar 1**

**Webinar On Demand: Innovations in NGS and CGH for Preimplantation Genetic Testing**

This webinar provides an overview of the latest advances in genomics technology for preimplantation genetic testing, with a focus on the advantages of next generation sequencing and comparative genomic hybridization for specific indications.

**View Here**<https://event.on24.com/wcc/r/2104876/159AF8687983DCFF82BFF3A94A64EA1D?partnerref=gwtextad>

**Agilent Webinar 2**

**Innovations in NGS and CGH for Preimplantation Genetic Testing**

**Anastasios Mitrakos, a PhD researcher in the Department of Medical Genetics of the National and Kapodistrian University of Athens and a molecular geneticist at Genesis Genoma Lab**, will discuss the advantages of microarrays in embryo screening during this on demand webinar.

**View Here** <https://event.on24.com/wcc/r/2104876/159AF8687983DCFF82BFF3A94A64EA1D?partnerref=gwtextad>

**Agilent Webinar 3**

**Innovations in NGS and CGH for Preimplantation Genetic Testing**

**Joris Vermeesch of Katholieke Universiteit Leuven,** will provide an overview of haplarithmisis — simultaneous haplotyping and copy-number profiling of DNA samples — and discuss its importance for PGT during this webinar.

View Here <https://event.on24.com/wcc/r/2104876/159AF8687983DCFF82BFF3A94A64EA1D?partnerref=gwtextad>

**Adaptive Biotechnologies White Paper 1**

Title: Understanding Clonality for Immunosequencing

Body: This whitepaper from Adaptive Biotechnologies discusses the Simpson clonality metric, which is a more stable measurement of immune repertoire focus and is less affected by variations in sample input material or T-cell fraction.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/immunoseq-analyzer-understanding-clonality)

**Adaptive Biotechnologies White Paper 2**

Title: COVID-19 and the Immune System

Body: This publication review by Adaptive Biotechnologies focuses on lessons learned from COVID-19 research in five areas: immune response, vaccine and drug development, infectious disease, autoimmune disease, and oncology.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/covid-19-and-immune-system)

**Adaptive Biotechnologies Webinar 1**

Title: T-Cells in COVID-19: Decoding the Immune Response with Immunosequencing

Body: This webinar from Adaptive Biotechnologies highlights the importance of looking at T-cell responses from the onset of COVID-19 symptoms through convalescence.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/t-cells-covid-19-decoding-immune-response-immunosequencing)

**Adaptive Biotechnologies Webinar 2**

Title: Immune Repertoire Data Analysis: From Sequencing Data to Insights

Body: This webinar by Adaptive Biotechnologies describes the immunoSEQ technology and how to go from sequencing data to insights with the use of robust statistical analyses across a range of biological fields including oncology, vaccine development, and infectious disease research.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/immune-repertoire-data-analysis-sequencing-data-insights)

**Adaptive Biotechnologies Webinar 3**

Title: Mapping SARS-CoV-2 Antigen & T-Cell Repertoires

Body: In partnership with Microsoft, Adaptive Biotechnologies has created a comprehensive open access database, ImmuneCODE, that provides data to develop better diagnostics, vaccines, and therapeutics for COVID-19. View this on-demand webinar for an overview of this resource and its applications.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/covid-19-t-cell-data-mapping-out-sars-cov-2-antigen-t-cell-repertoires)

***Stilla White Paper 1***

**Title:** Performance Comparison of Digital PCR vs. qPCR

**Body:** This application note from Stilla compares the precision and reproducibility of the Crystal Digital PCR technology using the Naica System to that of qPCR technology.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/precision-performance-crystal-digital-pcr-vs-quantitative-pcr)

***Stilla White Paper 2***

**Title:** Digital PCR Increases Sample Throughput in Chimerism Monitoring

**Body:** This application note detailshow the Swiss Red Cross adopted the Crystal Digital PCR system to improve sample throughput in post-transplant chimerism monitoring.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/fast-convenient-and-accurate-monitoring-chimerism-after-hematopoietic-stem)

***Stilla GW White Paper 3***

**Title:** EvaluatingHypermethylated ctDNA as a Universal CRC Marker

**Body:** This application note from Stilla describes a study that sought to evaluate whether a digital PCR assay to detect hypermethylated WIF1 and NPY could be used as a universal colorectal cancer marker.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/detection-hypermethylated-circulating-tumor-dna-crystal-digital-pcr)

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***Stilla PON White Paper 3***

**Title:** EvaluatingHypermethylated ctDNA as a Universal CRC Marker

**Body:** This application note from Stilla describes a study that sought to evaluate whether a digital PCR assay to detect hypermethylated WIF1 and NPY could be used as a universal colorectal cancer marker.

Download it from the [Precision Oncology News White Paper Channel.](https://www.precisiononcologynews.com/resources/white-papers/detection-hypermethylated-circulating-tumor-dna-crystal-digital-pcr)

***Stilla GW White Paper 4***

**Title:** Drop-off Digital PCR Assays Detect NRAS, KRAS, and EGFR Mutations

**Body:** This application note from Still describes internally controlled drop-off digital PCR assays for the detection of seven KRAS mutations, four NRAS mutations, and a range of EGFR exon 19 deletions/insertions that are monitored in clinical practice.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/drop-crystal-digital-pcr-nras-kras-egfr-mutations)

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***Stilla PON White Paper 4***

**Title:** Drop-off Digital PCR Assays Detect NRAS, KRAS, and EGFR Mutations

**Body:** This application note from Still describes internally controlled drop-off digital PCR assays for the detection of seven KRAS mutations, four NRAS mutations, and a range of EGFR exon 19 deletions/insertions that are monitored in clinical practice.

Download it from the [Precision Oncology News White Paper Channel.](https://www.precisiononcologynews.com/resources/white-papers/drop-crystal-digital-pcr-nras-kras-egfr-mutations)

***Stilla GW White Paper 5***

**Title:** Digital PCR Assays for EGFR Mutation Detection

**Body:** This application note from Stilla describes multiplex digital PCR assays to detect and quantify activating and resistance EGFR mutations in single tests without sacrificing the precision and reliability of the results.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/3-color-crystal-digital-pcr-assays-egfr-mutation-detection)

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***Stilla PON White Paper 5***

**Title:** Digital PCR Assays for EGFR Mutation Detection

**Body:** This application note from Stilla outlines the development of two multiplex digital PCR assays to detect and quantify EGFR mutations in single tests without sacrificing the precision and reliability of the results.

Download it from the [Precision Oncology News White Paper Channel.](https://www.precisiononcologynews.com/resources/white-papers/3-color-crystal-digital-pcr-assays-egfr-mutation-detection)

**Sartorius White Paper 1**

Title: How to Avoid Contamination in Pipetting

Body: This white paper from Sartorius addresses the three contamination types that originate from pipetting and discusses strategies for avoiding each.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/how-avoid-contamination-pipetting)

**Sartorius White Paper 2**

Title: How to Pipette PCR Master Mix for Increased Accuracy in qPCR Results

Body: In this white paper Sartorius outlines the best pipetting technique for pipetting master mix in qPCR assays. They tested forward and reverse pipetting techniques, the type of pipette tips, pre-wetting of the pipette tip, and the use of electronic pipettes, and identified best practices for obtaining accurate qPCR results.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/application-note-how-pipette-pcr-master-mix-increased-accuracy-qpcr-results)

**Sartorius White Paper 3**

Title: Benchmarking of the Microsart AMP Mycoplasma Kit with Products of Two Other Suppliers

Body: This white paper from Sartorius details a comparison of several mycoplasma PCR kits that found that the Microsart AMP Mycoplasma kit had the least variability and the highest reproducibility.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/application-note-benchmarking-microsart-amp-mycoplasma-kit-products-two-other)

**Sartorius White Paper 4**

Title: Poster: Next Generation Cellular Therapeutic Technologies — Rapid Detection of Bacterial Contamination

Body: This poster from Sartorius describes a validation study for a growth-independent sterility testing system for cellular therapies.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/poster-next-generation-cellular-therapeutic-technologies-rapid-detection)

**Sartorius White Paper 5**

Title: Cell-Based Therapies – Be on the Safe Side

Body: In this white paper from Sartorius learn about new, game-changing technologies that have been developed to test for microbial contamination before these therapies are injected into patients.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/cell-based-therapies-be-safe-side)

**Streck White Paper 1**

Title: Superior Design, Speed, and Flexibility for Real-Time PCR

Body: In this whitepaper from Streck learn how the modular design and rapid heat transfer technology of the Zulu RT Real-Time PCR System can overcome many of the challenges of current systems.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/zulu-rt-offers-superior-design-speed-flexibility)

**Streck White Paper 2**

Title: Design and Functional Attributes of a New Real-Time PCR System

Body: In this whitepaper from Streck learn about the Zulu RT, a new real-time PCR instrument that possesses a distinctive combination of careful optical engineering, rapid cycling speed, system modularity, and a straightforward graphical user interface to provide 6-color real-time PCR results in 20 minutes.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/design-and-functional-attributes-streck-zulu-rt)

**Streck White Paper 3**

Title: Rapid PCR Amplification for Forensic Studies

Body: This white paper describes a study to evaluate the use of the Streck PCR system, Zulu RT, to generate STR amplicons utilizing an expanded CODIS forensic STR kit. The results indicate that the Zulu RT can improve assay turnaround time for PCR-based commercial kits used in forensic applications.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/rapid-pcr-amplification-promega-powerplex-fusion-6c-kit-using-streck-real)

**Streck White Paper 4**

Title: The Reduction in PCR Artifacts Through Rapid Cycling Techniques

Body: This white paper from Streck describes a study by the National Institute for Standards and Technology (NIST) that tested the speeds of thermal cyclers from Thermo Fisher Scientific, Qiagen, and Streck using the Applied Biosystems Identifiler kit.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/reduction-pcr-artifacts-through-rapid-cycling-techniques)

**Streck White Paper 5**

Title: Zulu RT offers superior design, speed, flexibility

Body: In this whitepaper by Streck learn about a technology that is accurate, sensitive, and provides rapid 20-minute 6-color real-time PCR results.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/zulu-rt-offers-superior-design-speed-flexibility)

**Tailored Label White Paper 1**Title: Life Sciences & Biotechnology Labeling Dilemmas

Body: In this case study from Tailored Label learn how challenges are met associated with sample container tracking: sizing, legibility, durability, and increased information requirements.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/life-sciences-biotechnology-labeling-dilemmas)

**Tailored Label White Paper 2**Title: Five Questions to Consider for Variable Print

Body: This white paper from Tailored Label details five questions to consider when either launching or advancing your variable print initiatives for product identification.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/five-questions-consider-variable-print)

**TFS NR Whitepaper 1**

Title: Next-Generation Proteomics Reagents for Increased Sample Multiplexing

Body: In this application note from Thermo Fisher Scientific, learn how tandem mass tag reagents enable high-throughput, quantitative proteomic analyses to identify changes in protein abundance and post-translational modification states.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/next-generation-tmtpro-reagents-increased-sample-multiplexing)

**TFS NR Whitepaper 2**

Title: A Next-Generation PSC Suspension Culture System for Optimal Expansion and Scaleup

Body: This application note from Thermo Fisher Scientific describes how the Gibco StemScale PSC Suspension Medium allows researchers to readily transition their existing adherent cultures to suspension cultures to realize a range of benefits as compared to standard monolayer cultures.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/next-generation-psc-suspension-culture-system-optimal-expansion-and-scale)

**TFS NR Whitepaper 3**

Title: Essential Strategies to Optimize Protein Expression

Body: This white paper Thermo Fisher Scientific summarizes several different technologies that can be applied to maximize the success of your protein expression experiments.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/essential-strategies-optimize-protein-expression)

**Tailored Label White Paper 2**Title: Five Questions to Consider for Variable Print

Body: This white paper from Tailored Label details five questions to consider when either launching or advancing your variable print initiatives for product identification.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/five-questions-consider-variable-print)

**Tecan White Paper 1**

Title: NGS Dreamprep: Automated DNA Library Preparation and Quantification

Body: This application note highlights the benefits of automating DNA library preparation, quantification, normalization and pooling using Tecan’s NGS reagent and automation solutions.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/ngs-dreamprep-automated-dna-library-preparation-and-quantification-fluent)

**Tecan White Paper 2**

Title: NGS Dreamprep: Automated mRNA Library Preparation and Quantification

Body: This application note by Tecan describes a fully automated protocol for the generation of quantified mRNA libraries, including QC and library normalization, using the NGS DreamPrep workstation and the Universal Plus mRNA-Seq library preparation kit.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/ngs-dreamprep-automated-mrna-library-preparation-and-quantification-fluent)

**Tecan White Paper 3**

Title: Genomic Solutions for Sensitive Viral Detection

Body: This application note by Tecan describes how the Trio RNA-Seq library preparation kit provides increased viral detection sensitivity from nasal swab samples by using novel proprietary technologies.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/genomic-solutions-sensitive-viral-detection)

**Tecan White Paper 4**

Title: Genomic Surveillance of SARS-CoV-2 Strains in the Greater NYC Area

Body: This review from Tecan describes a study on the early transmission of COVID-19 in the New York area and how researchers used the Trio RNA-Seq library preparation kit to identify the major circulating strains.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/genomic-surveillance-sars-cov-2-strains-greater-nyc-area)

**Thermo Fisher White Paper 4**

Title: Evaluation of the Oncomine BRCA Research Assay

Body: This white paper from Thermo Fisher Scientific describes how the Oncomine BRCA Research Assay enables sensitive detection of germline and somatic SNVs, indels, and large rearrangements across the complete coding sequence of BRCA1/2 from as little as 20 ng of DNA.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/evaluation-oncomine-brca-research-assay-variant-detection-next-generation)

**Thermo Fisher White Paper 5**

Title: Analytical Validation of the Oncomine Pan-Cancer Cell-Free Assay  
  
Body: This white paper from Thermo Fisher describes an analytical validation of the Oncomine Pan-Cancer Cell-Free Assay using both commercially available pre-characterized cell-free reference materials as well as clinical plasma samples from three solid tumor indications procured from a commercial biorepository.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/analytical-validation-oncomine-pan-cancer-cell-free-assay)

**Thermo Fisher White Paper 6**

Title: Decoding Carrier Screening

Body: This white paper from Thermo Fisher Scientific describes how hundreds of disorders can now be screened at once using a single sample, opening up the possibility of more comprehensive and universal carrier screening referred to as expanded carrier screening.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/decoding-carrier-screening)

**Thermo Fisher White Paper 7**

Title: Application Note: Optimized Protocol for Sequencing the SARS-CoV-2 Genome

Body: This application note from Thermo Fisher Scientific describes a workflow solution for NGS library preparation of SARS-CoV-2 samples using the Invitrogen Collibri ES DNA Library Prep Kit for Illumina Systems with Unique Dual Indexes, from purification of total RNA to library quantification and sequencing.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/application-note-optimized-protocol-sequencing-sars-cov-2-genome)

**Thermo Fisher White Paper 8**

Title: eCase Study Transcript: Optimized Protocol for Sequencing the SARS-CoV-2 Genome

Body: This transcript is from a GenomeWeb eCase Study that outlined an optimized workflow for sequencing the SARS-CoV-2 genome, demonstrating the coverage and variant detection achieved.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/optimized-protocol-sequencing-sars-cov-2-genome-genomeweb-ecase-study)

**Thermo Fisher White Paper 9**

Title: Independent Evaluation of ReproSeq-PGS: A GenomeWeb eCase Study Transcript

Body: This transcript is from a GenomeWeb eCase Study in which Adam Goodman, director of preimplantation genetics at NxGen MDx, discussed his experience with Thermo Fisher Scientific’s ReproSeq-PGS kit for PGT-A testing.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/independent-evaluation-reproseq-pgs-genomeweb-ecase-study-transcript)

**Thermo Fisher White Paper 10**

Title: The Challenges of Sequencing SMN1/2 Genes for Spinal Muscular Atrophy Research

Body: This transcript is from a GenomeWeb eCase Study in which Adam Harris, Senior Manager of Research and Development at Thermo Fisher Scientific, discussed the benefits of the Ion Torrent CarrierSeq ECS kit for spinal muscular atrophy research.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/challenges-sequencing-smn12-genes-spinal-muscular-atrophy-research-genomeweb)

**Thermo Fisher White Paper 11**

Title: Sequencing HBA1/2 Genes for Alpha-Thalassemia Research: A GenomeWeb eCase Study Transcript

Body: This transcript is from a GenomeWeb eCase Study in which Colin Davidson, Senior Product Manager at Thermo Fisher Scientific, discussed the challenges of alpha-thalassemia testing and the benefits that the Ion AmpliSeq CarrierSeq ECS kit can provide.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/challenges-sequencing-hba12-genes-alpha-thalassemia-research-genomeweb-ecase)

**Thermo Fisher White Paper 12**Title: Analytical Verification of an Expanded Carrier Screening Kit

Body: This application note from Thermo Fisher Scientific presents an analytical verification of the CarrierSeq ECS Kit, a 420-gene expanded carrier screening research panel for the Ion GeneStudio S5 System.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/analytical-verification-carrierseq-ecs-kit-ion-genestudio-s5-system)

**Thermo Fisher Ecase Study 1**

Title: Sequencing Challenging Genes for Alpha Thalassemia Research

Body: This on-demand eCase Study presents case examples to illustrate how NGS kits and algorithm advancements work in combination to detect variants in genes related o alpha thalassemia.

Download it from GenomeWeb’s [eCase Study Channel](https://www.genomeweb.com/resources/webinars/challenge-sequencing-hba12-genes-thalassemia-research)

**Thermo Fisher Ecase Study 2**

Title: Evaluation of Reproseq PGS for PGT-A Testing

Body: This eCase Study discusses a customer evaluation of the ReproSeq Assay for use in preimplantation genetic testing for aneuploidies.

Download it from GenomeWeb’s [eCase Study Channel](https://www.genomeweb.com/resources/webinars/independent-evaluation-reproseq-pgs)

**Thermo Fisher Ecase Study 3**

Title: NGS for Spinal Muscular Atrophy Research

Body: This on-demand eCase Study describes NGS kits and algorithm advancements that work in combination to detect SNVs and CNVs in genes related to spinal muscular atrophy.

Download it from GenomeWeb’s [eCase Study Channel](https://www.genomeweb.com/resources/webinars/challenge-sequencing-smn12-genes-spinal-muscular-atrophy-research)

**Thermo Fisher Ecase Study 4**

Title: eCase Study: Optimized Protocol for Sequencing the SARS-CoV-2 Genome

Body: In this on-demand eCase Study, Cris Kinross from Thermo Fisher Scientific gives an overview of an optimized workflow for sequencing the SARS-CoV-2 genome, demonstrating the coverage and variant detection achieved.

Download it from GenomeWeb’s [eCase Study Library](https://www.genomeweb.com/resources/webinars/optimized-protocol-sequencing-sars-cov-2-genome)

**Thermo Fisher eCase Study Video 2**

Title: Critical Raw Material for mRNA-based Vaccine Development

Body: This on-demand eCase Study from Thermo Fisher Scientific discusses the quality requirements for critical raw material for commercial mRNA production and ongoing projects to optimize the entire mRNA portfolio to meet fit-for-purpose standards.

Download it from GenomeWeb’s [eCase Study Videos](https://www.genomeweb.com/resources/webinars/critical-raw-material-mrna-based-vaccine-development)

**Thermo Fisher eCase Study Video 3**

Title: Multiplex Gene Expression Assays: A Reliable and Efficient Method for the Evaluation of Vaccine Quality Control and Safety

Body: This eCase study video from Thermo Fisher Scientific discusses recent advances in vaccine quality control and safety evaluation utilizing the QuantiGene multiplex gene expression assays.

Download it from GenomeWeb’s [eCase Study Videos](https://www.genomeweb.com/resources/webinars/multiplex-gene-expression-assays-reliable-and-efficient-method-evaluation-vaccine)

**Thermo Fisher eCase Study Video 4**

Title: From Synthetic Gene to Vaccine: Confidence with Gene Synthesis Services

Body: This eCase Study from Thermo Fisher Scientific describes a range of de novo gene synthesis options for rapid vaccine development.

Download it from GenomeWeb’s [eCase Study Videos](https://www.genomeweb.com/resources/webinars/synthetic-gene-vaccine-confidence-gene-synthesis-services)

**Thermo Fisher eCase Study Video 5**

Title: Harnessing the Power of Protein Expression Systems in Vaccine Development

Body: This eCase Study video from Thermo Fisher Scientific highlights complete platforms that can accelerate vaccine development by enabling rapid, high-yield, and scalable production of proteins, viral antigens and viral-like particles from mammalian and insect cells.

Download it from GenomeWeb’s [eCase Study Videos](https://www.genomeweb.com/resources/webinars/harnessing-power-protein-expression-systems-vaccine-development)

**Thermo Fisher eCase Study Video 6**

Title: Enhanced, Rapid Target Identification by NGS for Vaccine Development

Body: This eCase Study from Thermo Fisher Scientific highlights technology able to provide gene expression insights into host-pathogen interactions that can be used to refine genomic targets for vaccine development.

Download it from GenomeWeb’s [eCase Study Videos](https://www.genomeweb.com/resources/webinars/enhanced-rapid-target-identification-ngs-vaccine-development)

**Twist BioScience White Paper 1**

Title: Results from a Comparison of Commercially Available Exome Kits

Body: This tech note from Twist Bioscience details two studies that independently compared the performance of the Twist Human Core Exome Kit with other commercially available exome enrichment protocols.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/independent-third-party-studies-evaluating-efficiency-twist-human-core-exome)

**Twist BioScience White Paper 2**

Title:  Improving the Efficiency of Targeted NGS

Body: In this white paper, Twist Bioscience demonstrates that, though most commercial probe panels cite only on-target rate in their specifications, uniformity has a more significant contribution to the efficiency of targeted sequencing.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/importance-coverage-uniformity-over-target-rate-efficient-targeted-ngs)

**Twist BioScience White Paper 3**

Title: Simultaneous Detection and Characterization of SARS-CoV-2  
  
Body: This white paper from Twist BioScience describes how a target capture approach can simultaneously detect and characterize the SARS-CoV-2 virus, making it a powerful alternative to RT-PCR and an invaluable tool for monitoring viral evolution and development.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/ngs-based-target-capture-sars-cov-2-detection-and-characterization)

**Twist BioScience White Paper 4**

Title: Sequencing the Unsequenceable: FFPE Sample Processing for Successful Target Enrichment

Body: In collaboration, Covaris and Twist Bioscience demonstrate a complete library preparation and target enrichment solution that generates ready-to-sequence multiplexed libraries directly from FFPE tissue of various qualities.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/sequencing-unsequenceable-formalin-fixed-paraffin-embedded-ffpe-sample)

**Twist BioScience White Paper 5**

Title: Multiple Focused CRISPR Libraries from a Single Oligo Pool

Body: Download this whitepaper from Twist BioScience to learn how Twist Oligo Pool was used in combination with Custom Library Multiplexed Cloning, an easy-to-use bioinformatics and wet-lab workflow, to generate numerous high-quality, custom sgRNA libraries.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/multiple-focused-crispr-libraries-single-oligo-pool)

**Twist Bioscience Whitepaper 6**

Title: Capture-based SNP Genotyping by Sequencing

Body: This application note demonstrates how Twist Custom Target Enrichment Panels can allow SNP and indel genotyping to be performed on the same platform as whole-exome sequencing.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/capture-based-snp-genotyping-twist-target-enrichment-panels)

**Twist Bioscience Whitepaper 7**

Title: Targeted Methylation Sequencing

Body: This application note demonstrates the capability of Twist Bioscience's target enrichment panels for methylation sequencing.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/targeted-methylation-sequencing)

**Twist Bioscience Whitepaper 8**

Title: Streamlined Processing of Saliva Samples for Whole-Exome Sequencing

Body: This application note describes a collaboration between DNA Genotek and Twist Bioscience to provide a high-quality target enrichment solution, going from saliva sample to sequencer in under eight hours.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/prepit-q2a-streamlined-processing-oragene-dx-saliva-samples-whole-exome)

**Twist Bioscience Whitepaper 9**

Title: The Effects of Mismatches on DNA Capture by Hybridization

Body: This white paper describes a Twist Bioscience study that examined the effects of sequence complementarity on capture efficiency in target enrichment. The company used the results of the study to improve assay sensitivity, reduce off-target rates, and build robust probe design approaches.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/effects-mismatches-dna-capture-hybridization)

**Twist BioScience Webinar 1**

Title: Twist Panels for Sequencing Age-Related Mutation Patterns

Body: This on-demand webinar from Twist Bioscience describes clonal hematopoiesis mutation patterns that inform the risk and timing of acute myeloid leukemia as many as 17 years prior to diagnosis as well as the development of a new CH detection platform.

Download it from GenomeWeb’s [Webinar library](https://www.genomeweb.com/resources/webinars/twist-panels-sequencing-age-related-mutation-patterns)

**Verogen White Paper 1**

Title: What is the Preferred Sequencing Technology for Forensics Labs?  
  
Body: This technical note from Verogen highlights the number of peer-reviewed scientific papers published for the leading next-generation DNA sequencing platforms and highlights key articles for reference.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/representation-verogen-technology-forensic-genomics-literature)

**Verogen White Paper 2**

Title: A Comprehensive MPS Workflow for Severely Degraded Nuclear DNA  
  
Body: This application note from Verogen describes a comprehensive massively parallel sequencing workflow for degraded DNA samples.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/comprehensive-mps-workflow-severely-degraded-nuclear-dna)

**Verogen White Paper 3**

Title: Modern DNA Forensic Testing Capabilities  
  
Body: This guide from Verogen provides a basic overview of the modern forensic DNA testing landscape, and helps clarify the scenarios and sample types that may benefit from new and emerging methods.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/modern-dna-forensic-testing-capabilities)

**Verogen White Paper 5**

Title: MiSeq FGx Reagent Micro Kit: An MPS System for Forensic Scientists  
  
Body: This tech note from Verogen describes the utility of the MiSeq FGx Reagent Micro Kit and provides material modification assessment guidance.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/miseq-fgx-reagent-micro-kit-tech-note)

**Verogen White Paper 6**

Title: From DNA to Identification

Body: This white paper from Verogen describes how the company is integrating an NGS instrument specifically designed and validated for forensic applications with library prep kits, matched software tools, and a genealogical database.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/dna-identification)

**Verogen White Paper 7**

Title: Forensic Genetic Genealogy

Body: This application note by Verogen describes how forensic genetic genealogy combines the Verogen direct-to-consumer database, GEDmatch, with DNA analysis to produce investigative leads with powerful results.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/forensic-genetic-genealogy)

**Verogen White Paper 8**

Title: How NGS Led to the First Criminal Conviction of its Kind  
  
Body: Dr. Peter de Knijff at Leiden University Medical Center used next-generation sequencing to decipher discriminating data from a challenging sample in a sexual assault case, leading to the first criminal conviction based on NGS data. This interview provides details of the case and potential ramifications for NGS utilization moving forward.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/how-next-generation-sequencing-resolved-difficult-case-leading-first-criminal)

**Verogen Webinar 1**

Title: Routine Use of ForenSeq Solution on Casework Samples: Feedback One Year After Lab Implementation

Body: In this on-demand webinar from Verogen, François-Xavier Laurent of the Institut National de Police Scientifique reviews the implementation of the Verogen NGS solution into his lab's operational casework.

Download it from GenomeWeb’s [Webinar library](https://www.genomeweb.com/resources/webinars/routine-use-forenseq-solution-casework-samples-feedback-one-year-after-lab)

**Verogen Webinar 2**

Title: How Can NGS Help Law Enforcement Solve More Cases?

Body: This on-demand webinar from Verogen reviews how NGS differs from traditional DNA typing, how it can be used for challenging sample types, and how NGS recently resolved a complex sexual assault case in the Netherlands, resulting in the first court conviction using this groundbreaking method.

Download it from GenomeWeb’s [Webinar library](https://www.genomeweb.com/resources/webinars/how-can-ngs-help-law-enforcement-solve-more-cases)

**Qiagen White Paper 1**

Title: Finding a Diagnosis in a Race Against Time

Body: In this white paper from Qiagen, learn how Turkey’s largest genetic testing lab is accelerating rare disease diagnosis with Qiagen Clinical Insight (QCI) Interpret.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/finding-diagnosis-race-against-time)

**Qiagen White Paper 2**

Title: Use of HGMD Mutation Data Within Popular Variant Annotation Tools

Body: This technical note from Qiagen provides a step-by-step guide for the use of HGMD data by three variant annotation tools: ANNOVAR, snpEff, and VariantAnnotation.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/use-hgmd-mutation-data-within-popular-variant-annotation-tools)

**Qiagen White Paper 3**

Title: Lab Performing Expanded Carrier Screening Boosts Efficiency by 80 Percent

Body: This white paper describes how one of the first DNA testing and genetic counseling companies to offer expanded carrier screening in the United States evaluated a clinical decision support solution to help scale its genomic interpretation processes.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/lab-performing-expanded-carrier-screening-boosts-efficiency-80)

URL: <https://gw-resources.tradepub.com/c/pubRD.mpl?secure=1&sr=pp&_t=pp:&qf=w_xxxa107&ch=>

**Qiagen White Paper 4**

Title: NSCLC Sample Report for North America

Body: This sample Qiagen Clinical Insight report for non-small cell lung cancer demonstrates a patient-specific report that can be provided to oncologists in North America in a fraction of the time and with greater confidence than other systems.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/nsclc-sample-report-north-america)

**Qiagen White Paper 5**

Title: Variant Interpretation Then and Now: Moving Toward Rigorous, Consistent Workflows

Body: In this white paper from Qiagen learn about the history of variant interpretation and explore several approaches that clinical labs can take to improve the standardization and reproducibility of their variant interpretation pipelines.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/variant-interpretation-then-and-now-moving-toward-rigorous-consistent)

**Qiagen White Paper 6**

Title: AML Sample Report with European Guidelines

Body: This sample N-of-One report for acute myelocytic leukemia demonstrates a patient-specific report that can be provided to oncologists in the European Union in a fraction of the time and with greater confidence than other systems.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/aml-sample-report-european-guidelines)

**Qiagen White Paper 7**

Title: Genetic Testing Lab Sees 25-Fold Increase in Productivity  
  
Body: In this white paper from Qiagen, learn how a genetic testing lab increased its test throughput with an automated bioinformatics platform.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/genetic-testing-lab-sees-25-fold-scale-new-informatics-system)

**Qiagen White Paper 8**

Title: HGMD and ClinVar: Avoiding the Knowledge Blind Spot

Body: In this whitepaper from Qiagen learn how accessing a comprehensive and timely resource like HGMD mitigates the occurrence of clinical knowledge “blind spots”.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/hgmd-and-clinvar-avoiding-knowledge-blind-spot)

**Qiagen White Paper 9**

Title: Developing a Robust, Automated, and Streamlined Clinical NGS Workflow for Hematological Malignancies

SPONSORED WHITE PAPER

[Read More](https://www.genomeweb.com/resources/white-papers/developing-robust-automated-and-streamlined-clinical-ngs-workflow)

**Qiagen White Paper 10**

Title: Deliver Oncologist-Ready Reports in Minutes With Clinically Actionable Evidence and Recommendations

SPONSORED WHITE PAPER

[Read More](https://www.genomeweb.com/resources/white-papers/deliver-oncologist-ready-reports-minutes-clinically-actionable-evidence-and)

**Qiagen White Paper 11**

Title: The Great Unknown of DNA Sequencing Variants: What You Need to Know

Body: This whitepaper from Qiagen explores the implications and handling of variants of unknown significance, particularly in the realm of somatic cancer, to enhance understanding among clinicians and laboratory personnel.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/great-unknown-dna-sequencing-variants-what-you-need-know)

**Qiagen PON White Paper 11**

Title: **From Somatic Variants Towards Precision Oncology**

Body: This whitepaper describes Qiagen Clinical Insights (QCI) Precision Insights, a professional clinical interpretation service that delivers actionable evidence to enable and empower precision medicine.

Download it from the Precision Oncology News [White Paper Channel](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.precisiononcologynews.com%2Fresources%2Fwhite-papers%2Fsomatic-variants-towards-precision-oncology&data=04%7C01%7Ckevin.churak%40genomeweb.com%7C159fb8bb65334d1a3c9e08d8b8ac010b%7C2c6dce2dd43a4e78905e80e15b0a4b44%7C0%7C0%7C637462396198931116%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=t4sg%2BkHGEgc%2B7cGcCSejA6z5oTha3jBiCaagiSNaY8E%3D&reserved=0)

URL: <https://www.precisiononcologynews.com/resources/white-papers/somatic-variants-towards-precision-oncology>

**Qiagen White Paper 12**

Title: The Importance of Expert Curation in Clinical NGS Testing

Body: This white paper provides an overview of Qiagen's variant interpretation software and services, which take advantage of different curation methods to accurately transform the literature into biological and clinical insights.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/importance-expert-curation-clinical-ngs-testing)

**Qiagen White Paper 13**

Title: Bigger, Faster, Cheaper: Breaking the Bottleneck in Clinical Genetic Testing

Body: This white paper by Qiagen argues that to prepare for the future of NGS testing, clinical labs will need to adopt automation as a broad strategy and partner with commercial companies that can support and streamline their informatics workflow.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/bigger-faster-cheaper-breaking-bottleneck-clinical-genetic-testing)

**Qiagen White Paper 14**

Title: How to Handle Incidental Findings in Clinical Genomics

Body: This paper from Qiagen explores the issues around defining and managing incidental findings in clinical genomics.

Download it from GenomeWeb’s [White Paper Channel](https://www.genomeweb.com/resources/white-papers/incidental-findings-clinical-genomics-how-handle-incidental-findings-and-when)

**Qiagen White Paper 15**Title: Prevalence of Hereditary Cancer and Benefits of Multi-Gene Panel Testing

Body: This application note from Qiagen discusses the prevalence and causative mutations of several hereditary cancer syndromes, as well as the benefits of next-generation sequencing for hereditary cancer as compared to single-gene testing.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/prevalence-hereditary-cancer-and-benefits-multi-gene-panel-testing)

**Qiagen White Paper 16**Title: Automated BRCA Variant Assessment Shows High Concordance with Expert Classifications

Body: This whitepaper by Qiagen describes an evaluation that compared QCI Interpret’s automated classification of 6,135 BRCA1/2 variants with the ENIGMA expert assessments, finding extremely high concordance.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/automated-brca-variant-assessment-shows-996-concordance-enigma-expert)

**Qiagen White Paper 17**Title: Variant Interpretation in Oncology: Results from an End-User Benchmarking Survey

Body: This report by Qiagen summarizes the results of a benchmarking survey that sought to identify pain points and opportunities in next-generation sequencing variant interpretation workflows within the field of oncology.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/variant-interpretation-oncology-results-end-user-benchmarking-survey)

**Qiagen White Paper 18**Title: NGS Variant Annotation, Filtering and Triage for a Whole-Exome Sequencing Workflow

Body: This whitepaper by Qiagen reviews an affordable and efficient approach for translational cancer research, allowing the detection of rare gene variations and helping to discover new cancer biomarkers.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/ngs-variant-annotation-filtering-and-triage-using-qci-interpret-translational)

**Qiagen White Paper 19**Title: Methods and Challenges of Variant Annotation in Hereditary Cancer

Body: In this whitepaper from Qiagen learn how identification of mutation carriers is critical, as it enables the administration of interventions that are proven to confer significant survival benefits, particularly for highly penetrant genetic mutations.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/methods-and-challenges-variant-annotation-hereditary-cancer)

**Qiagen Discovery White Paper 1**

Title: Connect the Dots: Deriving Insights from Thousands of ‘Omics Datasets  
  
Body: Download this whitepaper from Qiagen to learn about a web-based platform that brings together the data for over half a million ‘omics samples into one intuitive interface.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/connect-dots-deriving-insights-thousands-omics-datasets)

**Qiagen Discovery White Paper 2**

Title: Coronavirus Pathogenesis Pathway  
  
Body: Download this resource from Qiagen to view genes and biological mechanisms involved in the coronavirus pathogenesis pathway.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/coronavirus-pathogenesis-pathway)

**Qiagen Discovery White Paper 3**

Title: Reveal the Biological Mechanisms Driving Antiviral Host Response  
  
Body: Download this whitepaper to see how Qiagen IPA can help viral researchers quickly and easily analyze interactions of host molecular mechanisms during viral infection and gain novel insights to accelerate their discoveries.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/reveal-biological-mechanisms-driving-antiviral-host-response)

**Qiagen Discovery White Paper 4**

Title: Understanding Biological Mechanisms in Transcriptomics or Proteomics Datasets   
  
Body: This whitepaper from Qiagen highlights how Analysis Match in IPA enables you to strengthen your hypotheses and discover new biological insights.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/understanding-biological-mechanisms-transcriptomics-or-proteomics-datasets)

**Qiagen Discovery White Paper 5**

Title: Unlock the Power of ‘Omics Datasets  
  
Body: This whitepaper from Qiagen describes how Ingenuity Pathway Analysis (IPA) with Analysis Match automatically aligns analyses against tens of thousands of curated publicly available datasets, allowing researchers to better understand causal connections between and among diseases, genes, and networks of upstream regulators.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/unlock-power-omics-datasets)

***Qiagen Discovery White Paper 8***

**Title:** Advanced Pathway Prediction and Analysis for Large Omics Datasets

**Body:** This eBook describes the uses of Qiagen’s Ingenuity Pathway Analysis software as compared to basic pathway analysis tools.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/you-may-be-missing-research-breakthrough-here-s-why)

***Qiagen Discovery White Paper 6***

**Title:** Visualization of Tumor Microenvironment Pathways

**Body:** This white paper presents the molecules and interactions involved in the tumor microenvironment by which tumors redirect elements of the immune system to encourage proliferation and suppress immune attack, as visualized by Qiagen Ingenuity Pathway Analysis.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/tumor-microenvironment-pathway)

***Qiagen Discovery White Paper 9***

**Title:** Using Single-Cell RNA-Seq Data to Elucidate Liver Disease and Type 2 Diabetes

**Body:** This white paper presents use cases for exploring single-cell RNA sequencing data to discover common lymphoid signatures of resident myeloid cell genes in human livers and differentially expressed genes in type 2 diabetes using the Qiagen OmicSoft Single Cell Land database.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/dig-deep-biological-mechanisms-individual-cells)

***Qiagen Discovery White Paper 7***

**Title:** A Curated Omics Data Portal for Accessing and Analyzing Datasets

**Body:** This eBook describes the how Qiagen’s OmicSoft Lands portal can reduce the time spent finding, downloading, processing and annotating omics datasets from public repositories.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/hidden-costs-integrating-free-data)

**Qiagen Discovery Webinar 1**Title: Identification of Novel Therapeutics for Metastatic Pancreatic Neuroendocrine Tumors Using IPA  
  
Body: In this video, Dr. Benjamin W. Darbro talks about a study at the University of Iowa to find novel drug targets for metastatic pancreatic neuroendocrine tumors using Qiagen Ingenuity Pathway Analysis.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/identification-novel-therapeutics-metastatic-pancreatic-neuroendocrine-tumors)

**Qiagen Discovery Webinar 2**Title: Transcriptomic Analyses of In Vitro Flavivirus- or Coronavirus-infected Cell Lines  
  
Body: In this webinar from Qiagen learn about transcriptomic analyses of in vitro flavivirus- or coronavirus-infected cell lines.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/transcriptomic-analyses-vitro-flavivirus-or-coronavirus-infected-cell-lines)

**Qiagen Discovery Webinar 3**Title: Multiomic Changes in the Postnatal Mouse Heart  
  
Body: This on-demand webinar presents a use case for Qiagen IPA and Qiagen OmicSoft in the analysis of changes in postnatal mouse heart tissues using transcriptomic, proteomic, and metabolomic data.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/multi-omic-changes-postnatal-mouse-heart-identified-qiagen-ingenuity-pathway)

**Qiagen Webinar 1**

Title: Accurate and Efficient Interpretation with QCI Precision Insights

Body: This on-demand webinar from Qiagen focuses on how clinical diagnostic labs can accelerate test turnaround times and improve reporting capabilities for somatic sequencing tests in oncology with QCI Precision Insights.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/accurate-and-efficient-interpretation-qci-precision-insights)

**Qiagen Webinar 2**

Title: Power Up Your Clinical Test Interpretation

Body: In this on-demand webinar from Qiagen learn why reference labs around the world use HGMD Professional in their clinical test interpretation for in-house variant interpretation.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/power-your-variant-knowledge-using-human-gene-mutation-database-hgmd-professional)

**Qiagen Webinar 3**

Title: Closing the Precision Medicine Gap in Community Practice

Body: In this on-demand webinar, learn how Qiagen’s bioinformatics team and Protean BioDiagnostics are working together to deploy whole-exome sequencing in clinical practice and give practitioners the knowledge to improve disease risk management and select treatment.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/closing-precision-medicine-gap-community-practice-using-power-whole-exome)

**Qiagen Webinar 4**

Title: Best Practices for Clinical Hereditary NGS Variant Interpretation

Body: This on-demand webinar from Qiagen discusses the opportunity for clinical laboratories to implement efficient tertiary analysis pipelines and shares best practices for selecting and implementing a tertiary analysis pipeline for variant interpretation.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/practices-clinical-hereditary-ngs-variant-interpretation)

**Qiagen GW Webinar 5**

Title: Trends in Variant Interpretation Workflows: Expert Insights to Advance NGS Oncology Profiling  
  
Body: Join GenomeWeb and Qiagen for an on-demand roundtable discussion where a panel of experts review challenges and opportunities around genomic variant interpretation workflows in the field of oncology.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/trends-variant-interpretation-workflows-expert-insights-advance-ngs-oncology)

**Qiagen 360Dx Webinar 5**

Title: Trends in Variant Interpretation Workflows: Expert Insights to Advance NGS Oncology Profiling  
  
Body: Join GenomeWeb and Qiagen for an on-demand roundtable discussion where a panel of experts review challenges and opportunities around genomic variant interpretation workflows in the field of oncology.

Download it from 360Dx’s [Webinar Library](https://www.360Dx.com/resources/webinars/trends-variant-interpretation-workflows-expert-insights-advance-ngs-oncology)

**Qiagen PON Webinar 5**

Title: Trends in Variant Interpretation Workflows: Expert Insights to Advance NGS Oncology Profiling  
  
Body: Join GenomeWeb and Qiagen for an on-demand roundtable discussion where a panel of experts review challenges and opportunities around genomic variant interpretation workflows in the field of oncology.

Download it from Precision Oncology News [Webinar Library](https://www.precisiononcologynews.com/resources/webinars/trends-variant-interpretation-workflows-expert-insights-advance-ngs-oncology)

***Qiagen GW Webinar 6***

**Title:** Identifying Functional Variants in Claudin-Low Breast Cancer Cell Lines

**Body:** This on-demand eCase Study video outlines a filtering strategy to identify true, rare, homozygous variants in claudin-low cell lines for functional follow-up in the lab.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/identification-putative-functional-variants-claudin-low-breast-cancer-cell-lines)

***Qiagen PON Webinar 6***

**Title:** Precision Clinical Trial Matching

This on-demand webinar from Qiagen provides an overview of COSMIC (Catalog of Somatic Mutations in Cancer), which now allows users to search for drugs that target somatic mutations at all stages of drug development, including those still in development, in clinical trials, or that have been repurposed.

Download it from the [Precision Oncology News White Paper Channel.](https://www.precisiononcologynews.com/resources/webinars/cosmic-describing-millions-somatic-mutations-high-resolution-across-forms-cancer)

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/oem-sourcing-address-challenges-reagent-optimization-commercial-pcr-assay)

**Quanterix White Paper 1**

Title: Analysis of Inflammatory Plasma Biomarkers in Cancer Patient Samples   
  
Body: This application note from Quanterix describes the analysis of inflammatory biomarkers in EDTA plasma samples from colorectal and gastric cancer patients.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/analysis-inflammatory-plasma-biomarkers-cancer-patient-samples-using-simoa)

**Quanterix White Paper 2**

Title: Ultrasensitive Digital Immunoassay for PSA in Prostatectomy Patients  
  
Body: This white paper from Quanterix describes a PSA assay that has been validated for the fully automated Simoa HD‐1 Analyzer, which can measure individual proteins at concentrations 1,000 times lower than current immunoassays.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/ultrasensitive-digital-immunoassay-psa-single-molecule-array-simoa-technology)

**Quanterix White Paper 3**

Title: Scientific Principle of Simoa (Single Molecule Array) Technology  
  
Body: In this white paper from Quanterix learn about the Simoa (Single Molecule Array) technology, which can detect thousands of single protein molecules simultaneously.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/scientific-principle-simoa-single-molecule-array-technology)

**Zymo Research GW Whitepaper 1**

Title: How to Start COVID-19 Testing In Your Lab  
  
Body: This guide from Zymo Research outlines the key aspects that a lab should consider before starting COVID-19 testing.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/how-start-covid-19-testing-your-lab)

**Zymo Research 360Dx Whitepaper 1**

Title: How to Start COVID-19 Testing In Your Lab  
  
Body: This guide from Zymo Research outlines the key aspects that a lab should consider before starting COVID-19 testing.

Download it from 360Dx’s [White Paper Channel.](https://www.360dx.com/resources/white-papers/how-start-covid-19-testing-your-lab)

**Zymo Research GW White Paper 2**

Title: The Importance of Limit of Detection in COVID-19 Tests  
  
Body: In this whitepaper from Zymo Research learn about how limit of detection must be weighed alongside other factors to develop a testing strategy that effectively limits the spread of COVID-19.

Download it from GenomeWeb’s [White Paper Channel.](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.genomeweb.com%2Fresources%2Fwhite-papers%2Fimportance-limit-detection-covid-19-tests&data=04%7C01%7Ckevin.churak%40genomeweb.com%7Cff04c41015224c678b6008d8b259ad2d%7C2c6dce2dd43a4e78905e80e15b0a4b44%7C0%7C0%7C637455445515366654%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=oQuUmvfejsZBeCXB01MAauHd%2BH5icJ2lGMoZxK2JkB8%3D&reserved=0)

**Zymo Research 360Dx White Paper 2**

Title: The Importance of Limit of Detection in COVID-19 Tests  
  
Body: In this whitepaper from Zymo Research learn about how limit of detection must be weighed alongside other factors to develop a testing strategy that effectively limits the spread of COVID-19.

Download it from 360Dx’s [White Paper Channel.](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.360dx.com%2Fresources%2Fwhite-papers%2Fimportance-limit-detection-covid-19-tests&data=04%7C01%7Ckevin.churak%40genomeweb.com%7Cff04c41015224c678b6008d8b259ad2d%7C2c6dce2dd43a4e78905e80e15b0a4b44%7C0%7C0%7C637455445515366654%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=4tLpSUSicYN6RX85Z8ZmKaytf2LSpF19BtkywhcTIDw%3D&reserved=0)

**Zymo Research GW White Paper 3**

Title: The Importance of Sample Pooling in COVID-19 Testing  
  
Body: Download this whitepaper by Zymo Research to learn about the benefits and challenges of pooled sample testing for COVID-19.

Download it from GenomeWeb’s [White Paper Channel.](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.genomeweb.com%2Fresources%2Fwhite-papers%2Fimportance-sample-pooling-covid-19-testing&data=04%7C01%7Ckevin.churak%40genomeweb.com%7Cff04c41015224c678b6008d8b259ad2d%7C2c6dce2dd43a4e78905e80e15b0a4b44%7C0%7C0%7C637455445515376606%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=O4d66ZT2yDiPutQ1hfiP%2FlJRDR5ZnH55Q6USQuy12RE%3D&reserved=0)

**Zymo Research 360Dx White Paper 3**

Title: The Importance of Sample Pooling in COVID-19 Testing  
  
Body: Download this whitepaper by Zymo Research to learn about the benefits and challenges of pooled sample testing for COVID-19.

Download it from 360Dx’s [White Paper Channel.](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.360dx.com%2Fresources%2Fwhite-papers%2Fimportance-sample-pooling-covid-19-testing&data=04%7C01%7Ckevin.churak%40genomeweb.com%7Cff04c41015224c678b6008d8b259ad2d%7C2c6dce2dd43a4e78905e80e15b0a4b44%7C0%7C0%7C637455445515376606%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=%2FgP1LQnAxLLGyvTA1s0UVvTNC3oIaTLMqGo0JmY9Foo%3D&reserved=0)

**Qiagen White Paper 20**

Title: Identification of Functional Variants in Claudin-low Breast Cancer Cell Lines

Body: This transcript is from a GenomeWeb eCase Study sponsored by Qiagen that discussed a study that used QCI Interpret Translational to look for differences in claudin-low versus claudin-high breast cancer cells.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/ecase-study-transcript-identification-putative-functional-variants-claudin)

***SeraCare GW White Paper 37***

**Title:** Comparing Tumor Mutational Burden Exome and Transcriptome Profiling

**Body:** This whitepaper from SeraCare compares tumor mutational burden (TMB) as measured by whole-exome sequencing with expression of TMB mutations in whole-transcriptome sequences.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/reference-materials-tumor-mutational-burden-transcriptome-profiling)

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***SeraCare PON White Paper 37***

**Title:** Comparing Tumor Mutational Burden Exome and Transcriptome Profiling

**Body:** This whitepaper from SeraCare compares tumor mutational burden (TMB) as measured by whole-exome sequencing with expression of TMB mutations in whole-transcriptome sequences.

Download it from the [Precision Oncology News White Paper Channel.](https://www.precisiononcologynews.com/resources/white-papers/reference-materials-tumor-mutational-burden-transcriptome-profiling)

***Blacktrace Webinar 1 ( Retired )***

**Title:** The Untapped Applications of Single-Cell RNA Sequencing

**Body:** In this on-demand webinar, experts from Dolomite Bio and Illumina discussed the potential applications of high-throughput, single cell RNA analysis across sample types and fields of biology.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/events/what-you-always-wanted-know-about-single-cell-sequencing).

***Blacktrace White Paper 1***

**Title:** Automated Single-Cell RNA Sequencing Using the Drop-seq Protocol

**Body:** This application note from Dolomite Bio describes results obtained from the encapsulation of single cells with barcoded mRNA capture beads for fully automated single-cell RNA sequencing using the Drop-seq protocol on the Dolomite Bio Nadia Instrument.

Download it from GenomeWeb’s [White Paper Channel.](https://gw-resources.tradepub.com/free/w_defa1178/)

URL: <https://gw-resources.tradepub.com/free/w_defa1194/>

***SeraCare GW White Paper 38***

**Title:** Poly-A Extension Improves mRNA Enrichment for RNA-seq

**Body:** This whitepaper describes a study investigating if extending the poly-A tails of clinically relevant fusion mRNAs in the Seraseq Fusion RNA Mix v4 reference material improves how efficiently they bind to oligo dT columns during poly(A) selection.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/optimizing-performance-whole-transcriptome-rna-seq-reference-materials)

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***SeraCare PON White Paper 38***

**Title:** Poly-A Extension Improves Fusion mRNA Enrichment for RNA-seq

**Body:** This whitepaper describes a study investigating if extending the poly-A tails of clinically relevant fusion mRNAs in the Seraseq Fusion RNA Mix v4 reference material improves how efficiently they bind to oligo dT columns during poly(A) selection.

Download it from the [Precision Oncology News White Paper Channel.](https://www.precisiononcologynews.com/resources/white-papers/optimizing-performance-whole-transcriptome-rna-seq-reference-materials)

***IMEC White Paper 1***

**Title:** **Semiconductor Technologies and System Concepts for Genomics**

**Body:** This whitepaper from Imec describes examples and concepts of how semiconductor technology can be utilized in genomics, transcriptomics, and proteomics to improve sample preparation, sequencing, and analysis.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/semiconductor-technologies-and-system-concepts-revolutionize-genomics-0)

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***Mission Bio White Paper 6***

**Title:** **Single-Cell DNA Analysis of Myelodysplastic Syndrome Using a Single-Cell DNA AML Panel**

**Body:** This technical note from Mission Bio describes a study analyzing the mutational landscape of two patients with myelodysplastic syndrome (MDS) using the Tapestri Single-cell DNA AML Panel, demonstrating high sensitivity, clonal resolution, and concordance of variant allele frequency between single-cell and bulk next-generation sequencing data.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/single-cell-dna-analysis-myelodysplastic-syndrome-using-tapestri-single-cell-dna-aml).

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***Mission Bio PON White Paper 6***

**Title:** **Single-Cell DNA Analysis of Myelodysplastic Syndrome Using a Single-Cell DNA AML Panel**

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/single-cell-dna-analysis-myelodysplastic-syndrome-using-tapestri-single-cell-dna-aml).

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***Mission Bio White Paper 7***

**Title:** **Single-Cell DNA Analysis With Nuclei Isolated From Solid Tumor Tissue**

**Body:** This application note from Mission Bio describes a study in which single-cell targeted DNA analysis was performed on sectioned melanoma metastatic tissues and normal liver tissue using the Tapestri Platform, demonstrating the ability of single-cell sequencing to investigate tumor heterogeneity.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/single-cell-dna-analysis-tapestri-platform-and-nuclei-metastatic-melanoma-tissue).

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***Mission Bio PON White Paper 7***

**Title:** **Single-Cell DNA Analysis With Nuclei Isolated From Solid Tumor Tissue**

**Body:** This application note from Mission Bio describes a study in which single-cell targeted DNA analysis was performed on sectioned melanoma metastatic tissues and normal liver tissue using the Tapestri Platform, demonstrating the ability of single-cell sequencing to investigate tumor heterogeneity.

Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/single-cell-dna-analysis-tapestri-platform-and-nuclei-metastatic-melanoma-tissue).

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***Mission Bio White Paper 8***

**Title:** **Single-Cell DNA Sequencing Resolves the Genetic Complexity Underlying CLL Progression**

**Body:** This application note from Mission Bio describes a study in which single-cell DNA sequencing was performed on samples from patients with high-count monoclonal B-cell lymphocytosis using the Mission Bio Tapestri Platform and a 33-gene chronic lymphocytic leukemia amplicon panel, showing that single-cell DNA sequencing is a powerful tool for resolving clonal heterogeneity.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/single-cell-dna-sequencing-resolves-genetic-complexity-underlying-chronic-lymphocytic).

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***Mission Bio PON White Paper 8***

**Title:** **Single-Cell DNA Sequencing Resolves the Genetic Complexity Underlying CLL Progression**

**Body:** This application note from Mission Bio describes a study in which single-cell DNA sequencing was performed on samples from patients with high-count monoclonal B-cell lymphocytosis using the Mission Bio Tapestri Platform and a 33-gene CLL amplicon panel, showing that single-cell DNA sequencing is a powerful tool for resolving clonal heterogeneity.

Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/single-cell-dna-sequencing-resolves-genetic-complexity-underlying-chronic-lymphocytic).

***Mission Bio White Paper 9***

**Title:** **Measuring the Efficiency of CRISPR Genome Editing Using Single-Cell DNA Custom Panels**

**Body:** This technical note from Mission Bio demonstrates the Tapestri Platform’s ability to help optimize genome editing technologies by characterizing genome-edited systems to detect on- and off-target effects with single-cell DNA analysis.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/measuring-efficiency-crispr-genome-editing-systems-using-tapestri-platform-and-tapestri).

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***Mission Bio White Paper 10***

**Title:** **CNVs and SNVs Simultaneously Detected in Single Cells**

**Body:** This application note from Mission Bio describes a study demonstrating the ability of the Tapestri Platform to detect copy number variants and single nucleotide variants simultaneously in single cells from cancer cell lines.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/copy-number-variants-and-single-nucleotide-variants-simultaneously-detected-single).

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***Mission Bio PON White Paper 10***

**Title:** **CNVs and SNVs Simultaneously Detected in Single Cells**

**Body:** This application note from Mission Bio describes a study demonstrating the ability of the Tapestri Platform to detect copy number variants and single nucleotide variants simultaneously in single cells from cancer cell lines.

Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/copy-number-variants-and-single-nucleotide-variants-simultaneously-detected-single).

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***Mission Bio White Paper 11***

**Title:** **Single-Cell Analysis of Mouse Organoid Models for Preclinical Oncology Research**

**Body:** This application note from Mission Bio describes a study using single-cell DNA sequencing to understand which combinations of mutations are critical in bladder cancer by leveraging a mouse model, organoids, and gene-editing approaches.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/tapestri-platform-resolves-clonality-heterogeneous-mouse-organoid-cancer-model-through)

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***Mission Bio PON White Paper 11***

**Title:** **Single-Cell Analysis of Mouse Organoid Models for Preclinical Oncology Research**

**Body:** This application note from Mission Bio describes a study using single-cell DNA sequencing to understand which combinations of mutations are critical in bladder cancer by leveraging a mouse model, organoids, and gene-editing approaches.

Download it from the [Precision Oncology News White Paper Channel.](http://www.precisiononcologynews.com/white-paper/tapestri-platform-resolves-clonality-heterogeneous-mouse-organoid-cancer-model-through)

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***~~AWS White Paper 1 -~~*DO NOT USE!!!**

**~~Title:~~****~~Cloud Services for Genomic Data Storage, Transfer, Interpretation, and Workflow Automation~~**

**~~Body:~~** ~~This whitepaper from Amazon Web Services (AWS) describes use cases in which genomics businesses and organizations employed AWS to reduce time to discovery, scale operations, and reduce costs while operating securely, achieving regulatory compliance, and maintaining data sovereignty.~~

~~Download it from GenomeWeb’s~~ [~~White Paper Channel~~](http://www.genomeweb.com/white-paper/genomics-aws-accelerating-scientific-discoveries-and-powering-business-agility)~~.~~

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***AWS White Paper 2 – ( Retired )***

**Title:** **Launching a Cloud-Based Genomics Research Environment to Fuel SARS-CoV-2 Vaccine, Treatment, and Early-Detection Research**

**Body:** This whitepaper from Amazon Web Services describes how Lifebit Biotech Ltd. launched a research environment to study COVID-19 for Genomics England in under three months.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/lifebit-powers-collaborative-research-environment-genomics-england-aws).

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***Tecan GW White Paper 5 ( RETIRED )***

**Title:** Automating PCR and ELISA Workflows in a COVID-19 Testing Lab

**Body:** This case study brief from Tecan describes how ABC Labs, an influenza and COVID-19 testing lab in Stockholm, Sweden, employed robotic workstations to scale up their PCR and serology testing over the course of the pandemic from hundreds of samples a day to nearly 20,000.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/responding-pandemic).

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***Tecan 360Dx White Paper 5: ( RETIRED )***

**Title:** Automating PCR and ELISA Workflows in a COVID-19 Testing Lab

**Body:** This case study brief from Tecan describes how ABC Labs, an influenza and COVID-19 testing lab in Stockholm, Sweden, employed robotic workstations to scale up their PCR and serology testing over the course of the pandemic from hundreds of samples a day to nearly 20,000.

Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/responding-pandemic).

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***Tecan White Paper 6: DDO NOT USE ( old version )***

**Title:** **SARS-CoV-2 Detection and Characterization in Nasal Swab Samples With RNA-Seq**

**Body:**

This application note from Tecan describes the effective use of the Revelo RNA-Seq library preparation kit to convert low quality, degraded nasal swab samples of patients with COVID-19 to high quality libraries to accurately identify SARS-CoV-2 even at low copy numbers.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/sars-cov-2-detection-and-characterization-revelo-rna-seq).

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**AWS White Paper 3*: - ( Retired )***

**Title:** Genomics Data Transfer, Analytics, and Machine Learning Using Cloud Services

**Body:** This whitepaper from Amazon Web Services (AWS) demonstrates how to build a next-generation sequencing platform using AWS services, including recommendations and reference architectures for transferring genomics data to the AWS Cloud, running secondary analysis workflows, and performing tertiary analysis using machine learning.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/genomics-data-transfer-analytics-and-machine-learning-using-aws-services).

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***Tecan White Paper 7: ( RETIRED )***

**Title:** High-Throughput Microbiome Extraction from Various Human Samples

**Body:** This application note from Tecan describes an automated workflow delivering pure, inhibitor-free, sequencing-grade DNA ready for downstream applications – including PCR, arrays, and sequencing – in 90 minutes from human fecal and skin swab samples.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/high-throughput-microbiome-extraction-various-human-samples).

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***Tecan White Paper 8: ( RETIRED )***

**Title:** Automated DNA Library Preparation and Quantification in Less Than Four Hours

**Body:** This application note from Tecan describes a fully automated protocol for generating quantified DNA libraries enabling reproducible DNA library preparation and quantification from a range of inputs with minimal user intervention and no sample loss.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/dreamprep-ngs-automated-dna-library-preparation-and-quantification-fluent-automation).

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***Tecan White Paper 9: ( RETIRED )***

**Title:** Automated mRNA Library Preparation and Quantification in Less Than Nine Hours

**Body:** This application note from Tecan describes a fully automated protocol for generating quantified mRNA libraries, enabling reproducible mRNA library preparation and quantification from a range of inputs with minimal user intervention and no sample loss.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/dreamprep-ngs-automated-mrna-library-preparation-and-quantification-fluent-automation).

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***Tecan White Paper 10:***

**Title:** Solutions for Sensitive Viral Detection

**Body:** This whitepaper from Tecan presents use cases from peer-reviewed publications demonstrating Trio RNA-Seq and the Ovation RNA-Seq System V2 — workflows for NGS library construction and cDNA conversion that increase viral detection sensitivity in challenging or limited samples.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/solutions-sensitive-viral-detection).

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***Tecan White Paper 11:***

**Title:** An RNA-seq Method with Customizable Host Transcript Depletion for Viral Detection in Clinical Samples

**Body:** This poster from Tecan presents data demonstrating the detection of viruses in clinically relevant samples using the Trio RNA-Seq workflow, a hypothesis-free RNA-seq method for NGS library construction that includes customizable depletion of abundant or uninformative host transcripts to reduce the number of reads needed for viral detection.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/trio-rna-seq-simple-and-robust-method-customizable-host-transcript-depletion-viral).

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***Tecan Webinar 1:***

**Title:** Genomic Solutions for Sensitive Viral Research

**Body:** This on-demand webinar from Tecan presents studies investigating SARS-CoV-2 that employed the Trio RNA-Seq workflow, demonstrating how the system can detect low amounts of virus and complement qPCR studies in challenging samples.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/genomic-solutions-sensitive-viral-research).

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***Qiagen Discovery Webinar 4:***

**Title:** Uncovering Genomic Evidence of SARS-CoV-2 Infection and Reinfection

**Body:** In this on-demand webinar from Qiagen, Joel Sevinsky, coauthor of a recent paper exploring the genomic evidence for reinfection with SARS-CoV-2, discusses how next-generation sequencing and off-the-shelf software confirmed the first documented SARS-CoV-2 reinfection in the US.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/resources/webinars/uncovering-genomic-evidence-sars-cov-2-infection-and-reinfection).

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***HTG White Paper 4: ( RETIRED )***

**Title:** Gene Expression Profiling in Small Samples Without RNA Extraction Bias

**Body:** This poster from HTG compares the performance of RNA-seq and the HTG EdgeSeq Precision Immuno-Oncology Panel, which measures the expression of 1,392 genes involved in oncology and immune pathways, finding that the panel requires less sample input and offers greater sensitivity.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/platform-comparison-htg-edgeseq-and-rna-seq-gene-expression-profiling-tumor-tissue).

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***HTG GW White Paper 5: ( RETIRED )***

**Title:** Potential Predictive Biomarkers of Response to Trabectedin in Soft-Tissue Sarcoma Patients

**Body:** This poster from HTG investigates the expression of immune checkpoint genes and others as potential predictors of response to trabectedin in 139 soft-tissue sarcoma patients.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/immune-checkpoint-genes-predictive-biomarkers-trabectedin-advanced-soft-tissue-sarcoma).

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***HTG PON White Paper 5: ( RETIRED )***

**Title:** Potential Predictive Biomarkers of Response to Trabectedin in Soft-Tissue Sarcoma Patients

**Body:** This poster from HTG investigates the expression of immune checkpoint genes and others as potential predictors of response to trabectedin in 139 soft-tissue sarcoma patients.

Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/immune-checkpoint-genes-predictive-biomarkers-trabectedin-advanced-soft-tissue-sarcoma).

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***HTG White Paper 6: ( RETIRED )***

**Title:** Comparison of a Targeted RNA Sequencing Platform with Whole Transcriptome RNA Sequencing for Clinical Biomarker Studies

**Body:** This poster from HTG compares the use of HTG EdgeSeq and RNA-seq for detecting oncology biomarkers in a set of 57 formalin-fixed paraffin-embedded tumor samples, finding that HTG EdgeSeq produced fewer QC failures while using less tissue input.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/comparison-htg-edgeseq-targeted-rna-sequencing-platform-whole-transcriptome-rna).

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***HTG GW White Paper 7: ( RETIRED )***

**Title:** Pan-Cancer ERBB3 Gene Expression Analysis Using a Targeted Oncology Biomarker Panel

**Body:** This poster from HTG investigates the expression levels of ERBB3 in solid tumors and normal tissue using the HTG EdgeSeq Oncology Biomarker Panel, with the results suggesting unique protein-level regulation of ERBB3 in tumor cells.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/pan-cancer-gene-expression-analysis-tissue-microarray-using-edgeseq-oncology-biomarker).

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***HTG PON White Paper 7: ( RETIRED )***

**Title:** Pan-Cancer ERBB3 Gene Expression Analysis Using a Targeted Oncology Biomarker Panel

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/pan-cancer-gene-expression-analysis-tissue-microarray-using-edgeseq-oncology-biomarker).

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***Novosanis GW White Paper 1: ( Retired )***

**Title:** Performance of a Self-Sampling Urine Capturing Device for HPV-Based Cervical Cancer Screening

**Body:** This whitepaper from Novosanis explains the performance of Colli-Pee — a self-sampling urine-capturing device that collects the first 20 ml of urine flow — in HPV-based cervical cancer screening, highlighting current studies and literature in the field.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/colli-pee-performance-game-changing-sampling-device-hpv-based-cervical-cancer-screening).

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***Novosanis 360Dx White Paper 1: ( Retired )***

**Title:** Performance of a Self-Sampling Urine Capturing Device for HPV-Based Cervical Cancer Screening

**Body:** This whitepaper from Novosanis explains the performance of Colli-Pee — a self-sampling urine-capturing device that collects the first 20 ml of urine flow — in HPV-based cervical cancer screening, highlighting current studies and literature in the field.

Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/colli-pee-performance-game-changing-sampling-device-hpv-based-cervical-cancer-screening).

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***Novosanis GW White Paper 2: ( Retired )***

**Title:** HPV-Based Cervical Cancer Screening: Gaining Insights in Sample Preference and Cost-Effectiveness

**Body:** This whitepaper from Novosanis reviews studies examining patient preferences and the cost-effectiveness of self-sampling methods for HPV-based cervical cancer screening, highlighting the potential of Colli-Pee — a self-sampling urine-capturing device that collects the first 20 ml of urine flow.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/hpv-based-cervical-cancer-screening-gaining-insights-sample-preference-and-cost).

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***Novosanis 360Dx White Paper 2: ( Retired )***

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/hpv-based-cervical-cancer-screening-gaining-insights-sample-preference-and-cost).

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***ACD Webinar 8:***

**Title:** Investigating the Mechanisms of Fear Memory With Spatial Transcriptomics

**Body:** In this on-demand webinar from ACD, Kaitlin Sullivan of the University of British Columbia discusses using multiplexed, fluorescent RNA *in situ* hybridization (mFISH) based on the RNAscope technology to assess neuronal activity during the creation and recollection of fear memory.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/resources/webinars/using-spatial-transcriptomics-understand-molecular-mechanisms-memory).

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***Tecan White Paper 6: (updated) ( RETIRED )***

**Title:** **SARS-CoV-2 Detection and Characterization in Nasal Swab Samples With RNA-Seq**

**Body:**

This application note describes the effective use of the Revelo™ RNA-Seq library

preparation kit to convert low quality, degraded nasal swab samples of patients with COVID19 to high quality libraries to accurately identify SARS-CoV-2 even at low copy numbers. For

Research Use Only. Not for use in diagnostic procedure.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/sars-cov-2-detection-and-characterization-revelo-rna-seq).

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***Tecan Webinar 2: ( RETIRED )***

**Title: cDNA Conversion From Limited and Poor-Quality Total RNA for qPCR**

**Body**: This on-demand webinar from Tecan demonstrates how Crescendo cDNA

Synthesis for qPCR minimizes the rate of false negatives from SARS-CoV-2 nasal swab

samples, detects limited transcripts with high sensitivity, obtains unbiased amplification to

preserve biological information, and generates sufficient cDNA for qPCR studies and sample

archiving. For Research Use Only. Not for use in diagnostic procedure.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/eliminate-qpcr-uncertainty-crescendo-cdna-synthesis).

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***Zymo Research TT GW Whitepaper 1:***

**Title:** Recommended Safety Measures for Handling COVID-19 Positive Samples

**Body:** This brief guide from Zymo Research describes recommended measures for safely handling COVID-19 positive samples.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/recommended-safety-measures-handling-covid-19-positive-samples).

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/recommended-safety-measures-handling-covid-19-positive-samples).

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***Zymo Research TT Whitepaper 2:***

**Title:** Sample Collection and Preservation in Public Health Studies

**Body:** This whitepaper from Zymo Research describes cases in public health research demonstrating the use of DNA/RNA Shield, a reagent that preserves DNA integrity at room temperature for more than two years and RNA integrity for 30 days, protects nucleic acids against freeze/thaw damage, and inactivates infectious agents.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/sample-collection-and-preservation-public-health-studies).

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***Zymo Research TT GW Whitepaper 3:***

**Title:** COVID-19 Testing and Research With a Virus-Inactivating Transport and Storage Medium

**Body:** This whitepaper from Zymo Research describes cases in COVID-19 testing and treatment research that demonstrate the use of DNA/RNA Shield — a transport and storage medium that inactivates pathogens and prevents sample degradation — including a case from Jennifer Doudna’s pop-up testing laboratory at the University of California, Berkeley.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/sample-collection-methods-covid-19-testing-sequencing-and-research).

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***Zymo Research TT 360Dx Whitepaper 3:***

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/sample-collection-methods-covid-19-testing-sequencing-and-research).

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***Artel White Paper 5:***

**Title:** Troubleshooting Automated Assays

**Body:** This reference poster from Artel describes how to troubleshoot problems with automated assays, including how to inspect laboratory instruments, consumables, reagents, and other factors that may be causing issues in data.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/troubleshooting-automation).

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***Artel 360Dx White Paper 5:***

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/troubleshooting-automation).

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***Artel White Paper 6:***

**Title:** Liquid Handling Instrumentation Uses, Application, and Metrology

**Body:** This ebook from Artel contains a series of publications that provide technical information regarding the use, application, and metrology related to liquid handling instrumentation, including practices for pipette calibration, pipetting technique, and pipette use ergonomics.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/artel-lab-reports).

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/artel-lab-reports).

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***Artel White Paper 7:***

**Title:** Pipetting Viscous Solutions – Best Practices

**Body:** This reference poster from Artel describes best practices for pipetting viscous solutions including using positive displacement for methods or reverse mode pipetting.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/pipetting-viscous-solutions-best-practices).

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/pipetting-viscous-solutions-best-practices).

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***Artel White Paper 8:***

**Title:** Quantifying the Impact of Pipette Tip Type Using Dual Dye Ratiometric Technology

**Body:** This application note from Artel describes the use of a dual-dye photometric technology to correlate the accuracy and repeatability of volume transfers with the disposable pipette tips employed, allowing users to screen and select the appropriate tip types for their liquid handlers, pipettes, and assays.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/quantifying-impact-pipette-tip-type-using-dual-dye-ratiometric-technology).

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***Tecan GW White Paper 12: ( RETIRED )***

**Title:** Evaluating Manual and Automated SARS-CoV-2 ELISA Workflows

**Body:** This application note compares the results of manual and automated SARS-CoV-2 ELISA workflows and evaluates cross-contamination risk, assay drift, precision, and time to results, finding the automated assay to perform comparably to the manual workflow while increasing throughput.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/automate-your-sars-cov-2-s1rbd-igg-ab-elisa-and-increase-your-sample-throughput).

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***Tecan 360Dx White Paper 12: ( RETIRED )***

**Title:** Evaluating Manual and Automated SARS-CoV-2 ELISA Workflows

**Body:** This application note from Tecan compares the results of manual and automated SARS-CoV-2 ELISA workflows and evaluates the risk of cross-contamination, assay drift, precision, and time to results, finding the automated assay to perform comparably to the manual workflow while increasing throughput.

Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/automate-your-sars-cov-2-s1rbd-igg-ab-elisa-and-increase-your-sample-throughput).

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***SeraCare GW Webinar 37:***

**Title:** Diagnostic Challenges in Cancer Immunotherapy: An Expert Panel Discussion

**Body:** This on-demand GenomeWebinar sponsored by LGC SeraCare features a panel of experts in cancer research, clinical laboratory practice, translational sciences, and immuno-oncology who provide insights into advances in cancer diagnostics and immunotherapy, as well as challenges facing the discipline.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/resources/webinars/diagnostic-challenges-cancer-immunotherapy-expert-panel-discussion).

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***SeraCare PON Webinar 37:***

**Title:** Diagnostic Challenges in Cancer Immunotherapy: An Expert Panel Discussion

**Body:** This on-demand GenomeWebinar sponsored by LGC SeraCare features a panel of experts in cancer research, clinical laboratory practice, translational sciences, and immuno-oncology who provide insights into advances in cancer diagnostics and immunotherapy, as well as challenges facing the discipline.

Download it from the [Precision Oncology News Webinar Library](http://www.precisiononcologynews.com/events/diagnostic-challenges-cancer-immunotherapy-expert-panel-discussion).

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***ACD GW White Paper 28:***

**Title:** A Chromogenic ISH Assay to Detect DNA Copy Number and Structural Variations at High Resolution

**Body:** This poster from ACD, presented at AACR 2021, demonstrates use of a novel chromogenic ISH assay to detect DNA copy number and structural variations, showing specific and efficient detection of gene rearrangements, amplifications, and deletions without specialized equipment, providing an alternative to commonly used FISH assays in cancer research applications.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/dnascope-novel-chromogenic-situ-hybridization-technology-high-resolution-detection-dna).

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/dnascope-novel-chromogenic-situ-hybridization-technology-high-resolution-detection-dna).

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***ACD GW White Paper 29:***

**Title:** An ISH Assay to Detect DNA Structural Aberrations at High Resolution Using Bright-Field Microscopy

**Body:** This white paper from ACD compares DNAscope — a novel chromogenic DNA ISH assay — to traditional ISH assays for cancer research applications, finding DNAscope to reliably detect various chromosomal structural aberrations at single-gene resolution with high sensitivity and specificity without requiring specialized lab equipment or personnel.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/novel-chromogenic-situ-hybridization-technology-high-resolution-detection-dna-copy).

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/novel-chromogenic-situ-hybridization-technology-high-resolution-detection-dna-copy).

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***ACD White Paper 30:***

**Title:** Gene Therapy Biodistribution Analysis Using In SituHybridization

**Body:** This application note from ACD demonstrates how RNAscope ISH technology and Professional Assay Services can provide morphology-based, cell-specific quantification of adeno-associated virus vector DNA and therapeutic transgene mRNA expression within intact tissue, addressing questions on biodistribution, persistence, cellular tropism, and vector promotor activity.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/tissue-based-gene-therapy-biodistribution-analysis-using-rnascope-situ-hybridization).

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***ACD GW White Paper 31:***

**Title:** Tumor Microenvironment and Immune Cell Analysis with ISH and IHC Assays

**Body:** This application note from ACD shows how combining RNAscope ISH technology with immunohistochemistry or immunofluorescence assays allows for the spatial analysis of targets, biomarkers, cytokines, and CAR-T cells within the tumor microenvironment.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/professional-assay-services-dual-rnascope-ish-ihcif-tumor-microenvironment-and-immune).

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/professional-assay-services-dual-rnascope-ish-ihcif-tumor-microenvironment-and-immune).

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***ACD White Paper 32:***

**Title:** T-Cell Therapy Trafficking and Activation Analysis Using RNAscope In Situ Hybridization

**Body:** This white paper describes how ACD’s RNAscope ISH technology enables pre-clinical screening for target antigen expression at the RNA level to avoid adverse effects resulting from on-target/off-tumor activity.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/t-cell-therapy-trafficking-and-activation-analysis-using-situ-hybridization).

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***AWS White Paper 1 - ( Retired )***

**Title:** Cloud Services for Genomic Data Storage, Transfer, Interpretation, and Workflow Automation

**Body:** This whitepaper from Amazon Web Services (AWS) describes use cases in which genomics businesses and organizations leveraged AWS to reduce time to discovery, scale operations, and reduce costs while operating securely, achieving regulatory compliance, and maintaining data sovereignty.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/genomics-aws-accelerating-scientific-discoveries-and-powering-business-agility).

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***ACD White Paper 33:***

**Title:** Characterizing Tumor-infiltrated Immune Cells with Spatial Context

**Body:** This poster from ACD demonstrates a new integrated in situ hybridization and immunohistochemistry workflow that can substantially improve RNA-protein co-detection.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/characterizing-tumor-infiltrated-immune-cells-spatial-context-using-rnascope-ish).

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***ACD White Paper 34:***

**Title:** Incorporating Spatial Mapping and Confirmation of Gene Signatures into Single-Cell RNA-seq

**Body:** This application note from ACD explains how RNA in situ hybridization can overcome the shortcomings of single-cell RNA sequencing by retaining the spatial organization of the tissue being analyzed.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/rnascope-multiplex-situ-hybridization-technology-enables-incorporation-spatial-mapping).

***ACD GW Webinar 9:***

**Title:** A Novel Chromogenic ISH Assay for High-Resolution Detection of DNA Copy Number and Structural Variants

**Body:** This on-demand webinar from ACD demonstrates how the DNAscope assay can detect DNA copy number and structural variations with high specificity and enables greater morphological detail, higher resolution, and simpler interpretation than traditional DNA ISH assays without the need for specialized equipment.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/introducing-novel-chromogenic-ish-assay-high-resolution-detection-dna-copy-number-and).

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Download it from the [Precision Oncology News Webinar Library](http://www.precisiononcologynews.com/events/introducing-novel-chromogenic-ish-assay-high-resolution-detection-dna-copy-number-and).

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***ACD GW Webinar 10:***

**Title:** Use Cases for Tissue Expression Analysis Using ISH Services

**Body:** This webinar from ACD presents use cases in immuno-oncology, cell and gene therapy, neuroscience, single-cell RNAseq validation, biomarker validation, and others demonstrating applications for RNAscope *in situ* hybridization services.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/introducing-professional-assay-services-rnascope-ish-experts-tissue-expression-analysis).

***ACD PON Webinar 10:***

**Title:** Use Cases for Tissue Expression Analysis Using ISH Services

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Download it from the [Precision Oncology News Webinar Library](http://www.precisiononcologynews.com/events/introducing-professional-assay-services-rnascope-ish-experts-tissue-expression-analysis).

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***SeraCare White Paper 46:***

**Title:** Prenatal and Preimplantation Genetic Testing Reference Materials Developed From Clinical Samples

**Body:** This poster from SeraCare describes the development and clinical performance of reference materials for prenatal and preimplantation testing that appear suitable for a range of currently available PGT-A and NIPT methods.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/prenatal-clinical-samples-enable-development-qc-reference-materials-prenatal-and).

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***SeraCare White Paper 47:***

**Title:** Performance of Preimplantation Genetic Testing Reference Materials

**Body:** This poster from SeraCare presents data on newly developed reference materials for preimplantation genetic testing for aneuploidies and demonstrates the materials’ performance using primary template-directed amplification for whole genome amplification.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/novel-whole-genome-amplification-wga-method-detection-chromosomal-abnormalities).

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***Waters White Paper 1:***

**Title:** Automated Preparation and LC-MS/MS Analysis of Methylmalonic Acid in Serum

**Body:** This application note from Waters Corporation demonstrates the automated extraction of methylmalonic acid from serum for analysis by liquid chromatography-tandem mass spectrometry, employing the Ostro Plate for protein precipitation and phospholipid removal on the Andrew+ Pipetting Robot.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/automated-preparation-and-lc-msms-analysis-methylmalonic-acid-serum-using-andrew).

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***Waters White Paper 2:***

**Title:** Automated Protein Precipitation Extraction of Itaconic Acid for LC-MS Bioanalytical Quantification

**Body:** This application note from Waters Corporation demonstrates automated sample preparation and protein precipitation extraction of itaconic acid from human plasma for liquid chromatography-mass spectrometry analysis and quantification using the Andrew+ Pipetting Robot with the Waters Ostro 96-well Plate.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/accurate-lc-ms-bioanalytical-quantification-itaconic-acid-using-automated-andrew).

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***Stilla Webinar 1:***

**Title:** The Advantages, and Applications, and Challenges of Digital PCR

**Body:** This on-demand webinar from Stilla explains the principles and advantages of digital PCR (dPCR), the major dPCR platforms, and the array of possible applications for the technology, including a three-color target multiplex HIV quantification assay using the Naica System.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/history-digital-pcr-revolution-genetic-testing-analysis).

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***Stilla Webinar 2:***

**Title:** The Pros, Cons, and Applications of Digital PCR

**Body:** This podcast from Stilla discusses the pros and cons of digital PCR and how it compares with qPCR and next-generation sequencing as a research and discovery method.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/podcast-coming-age-digital-pcr).

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***Stilla Webinar 3:***

**Title:** Designing and Optimizing High Multiplexing Digital PCR Assays

**Body:** This on-demand webinar from Stilla discusses considerations for designing and optimizing digital PCR assays to maximize the potential of PCR instruments and presents data on SNP detection in liquid biopsy samples obtained using the Naica dPCR instrument.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/design-and-optimize-high-multiplexing-digital-pcr-assays-naica-system).

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***Stilla Webinar 4:***

**Title:** Digital PCR Principles and Advantages

**Body:** This video from Stilla describes the principles behind digital PCR and the technology’s advantages over traditional bulk qPCR, focusing on liquid biopsy to detect tumor-derived DNA as an example.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/digital-pcr-principles-and-advantages).

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***Waters White Paper 3:***

**Title:** SARS-CoV-2 Detection and Quantification with Liquid Chromatography-Mass Spectrometry

**Body:** This whitepaper from Waters Corporation demonstrates the capabilities of the SARS-Cov-2 LC-MS Kit (RUO) to directly detect and quantify low levels of SARS-CoV-2 signature nucleocapsid peptides without the need to amplify the target analytes — as required for PCR — and with the ability to measure multiple analytes at a time.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/advancing-research-sars-cov-2-lc-ms-kit-ruo).

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***Qiagen GW White Paper 21:***

**Title:** Advancing Personalized Oncology with Transcriptomic Profiling and Mechanistic Modeling

**Body:** In this on-demand GenomeWebinar sponsored by Qiagen, Moritz Schütte, head of next-generation sequencing data analysis at Alacris, explores the advantages of RNA sequencing alone or in combination with whole-exome sequencing as part of a precision oncology workflow and how mathematical modeling of molecular data can predict drug sensitivity.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/resources/webinars/advancing-personalized-oncology-transcriptomic-profiling-and-mechanistic-modeling).

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Download it from the [Precision Oncology News Webinar Library](http://www.precisiononcologynews.com/resources/webinars/advancing-personalized-oncology-transcriptomic-profiling-and-mechanistic-modeling).

**Asuragen White Paper 10**

Title: Multisite Evaluation of a Single-tube SMN1/2 PCR/CE Assay System that Assesses Copy Number and Expanded Content for Spinal Muscular Atrophy

Body: This whitepaper from Asuragen describes the multisite performance of a single-tube PCR/CE kit, including companion software that reports such expanded content.

Download it from GenomeWeb’s [White Paper Channel.](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.genomeweb.com%2Fresources%2Fwhite-papers%2Fmultisite-evaluation-single-tube-smn12-pcrce-assay-system-assesses-copy&data=04%7C01%7Cfelicia.Ward%40genomeweb.com%7Cb5a48d231f6f47fe2cca08d92f6fa926%7C2c6dce2dd43a4e78905e80e15b0a4b44%7C0%7C0%7C637592978906773400%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=BN8eeD3h%2FS9%2FmvfeNWN2wGkLoChTpFS8eI5ZAHpMOE8%3D&reserved=0)

***DNA Genotek 360Dx White Paper 3***

**Title:** Saliva Samples for COVID-19 Testing

**Body:** This whitepaper from DNA Genotek presents use cases of the Omnigene Oral saliva collection and stabilization kits for COVID-19 diagnostic testing, including adoption in the UK for the country’s Test to Release for International Travel program.

Download it from the [360Dx White Paper Channel.](https://www.360dx.com/white-paper/saliva-samples-covid-19-testing)

***Millipore Sigma White Paper 10:***

**Title:** Reagent Manufacturing for a Novel CRISPR-Based Diagnostic SARS CoV-2 Test

**Body:** This whitepaper from Millipore Sigma presents a case in which the business partnered with Mammoth Biosciences to manufacture reagents for a turnkey workstation to run a CRISPR-based SARS-CoV-2 molecular assay on automated liquid handling equipment.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/reagent-manufacturing-novel-crispr-based-diagnostic-sars-cov-2-test).

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***Glen Research White Paper 5: ( Retired )***

**Title:** Trinucleotide Reagents for Efficient Oligonucleotide Synthesis

**Body:** This application note from Glen Research presents three use cases for trimer phosphoramidites — trinucleotide reagents used to synthesize oligonucleotides based on amino acid codons rather than individual nucleotides — which allow researchers to create defined sequence libraries while avoiding stop codons and amino acid redundancy.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/application-note-trimer-phosphoramidites).

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***NanoDrop TFS White Paper 3:***

**Title:** Verifying Protein Purity and Concentration Throughout Structural Biology Workflows

**Body:** This whitepaper from Thermo Fisher Scientific describes how to integrate NanoDrop spectrophotometers into NMR, XRC, and cryo-EM workflows to verify that protein samples remain pure and concentrated throughout structural biology processes.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/using-nanodrop-spectrophotometers-nmr-xrc-and-cryo-em-workflows-structural-biology).

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***TFS NR White Paper 4:***

**Title:** Immunotherapy Challenges and Solutions

**Body:** This infographic from Thermo Fisher Scientific outlines the applications and benefits of immunotherapy treatments as well as challenges and solutions in developing immunotherapies.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/immunotherapy-frontline-treatment).

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***TFS NR White Paper 5:***

**Title:** Vaccine Development Milestones

**Body:** This infographic from Thermo Fisher Scientific outlines the types, history, and development workflow of vaccines.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/connect-future-vaccine-development).

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***TFS NR White Paper 6:***

**Title:** Considerations for Successful Cell Therapy Development

**Body:** This infographic from Thermo Fisher Scientific outlines considerations for successful stem cell and gene-modified cell therapy development, as well as historic breakthroughs in cell therapy research.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/connect-future-cell-therapy).

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***TFS NR White Paper 7:***

**Title:** Gene Therapy Development and Delivery

**Body:** This infographic from Thermo Fisher Scientific outlines approaches to gene therapy, the steps in gene therapy development and treatment, and the challenges in the field.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/connect-future-gene-therapy).

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***TFS NR White Paper 8:***

**Title:** Therapeutic Monoclonal Antibody Development and Delivery

**Body:** This infographic from Thermo Fisher Scientific outlines examples of monoclonal antibody treatment, breakthroughs in the field, the types of antibodies, and the challenges in their development and delivery.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/connect-future-therapeutic-monoclonal-antibodies)

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***Qiagen GW White Paper 23:***

**Title:** Using the Catalogue of Somatic Mutations in Cancer

**Body:** This whitepaper from Qiagen provides an overview of COSMIC (Catalog of Somatic Mutations in Cancer), highlighting the database’s curation, transparency, and features for data mining, utilization, and manipulation.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/cosmic-datasheet).

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/cosmic-datasheet).

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***Qiagen GW White Paper 24:***

**Title:** Reporting NGS Sequencing Data in Clinical Practice

**Body:** This application note from Qiagen describes generating inherited cancer NGS sequencing reports for clinicians and treating oncologists using the clinical decision support software, QCI Interpret, highlighting variant annotation, report customization, and handling variants of unknown significance.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/reporting-ngs-sequencing-data-clinical-practice).

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***Qiagen PON White Paper 24:***

**Title:** Reporting NGS Sequencing Data in Clinical Practice

**Body:** This application note from Qiagen describes generating inherited cancer NGS sequencing reports for clinicians and treating oncologists using the clinical decision support software, QCI Interpret, highlighting variant annotation, report customization, and handling variants of unknown significance.

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/reporting-ngs-sequencing-data-clinical-practice).

***Qiagen PON White Paper 22***

**Title:** Identifying Rare Cancer Mutations with Clinical Decision Support Software

**Body:** This application note from Qiagen presents an example workflow for detecting rare cancer mutations from large next-generation sequencing panels using QCI Interpret One clinical decision support software and interpretation service.

Download it from the [Precision Oncology News White Paper Channel.](https://www.precisiononcologynews.com/white-paper/understanding-uncommon-how-confidently-identify-rare-cancer-mutations-qci-interpret-one)

***Illumina GW White Paper 3: ( Retired )***

**Title:** Considerations When Ordering Non-Invasive Prenatal Screening

**Body:** This white paper from Illumina is based on a webinar presentation by Katie Ellis, senior genetic counselor at Genea in Australia, who discussed important issues to consider when ordering non-invasive prenatal screening, including patient preferences, technology platforms, test limitations, and the implications of inconclusive results.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/considerations-when-ordering-non-invasive-prenatal-screening).

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***Illumina GW Webinar 4: ( Retired )***

**Title:** Ordering and Counselling for Non-Invasive Prenatal Screening

**Body:** In this on-demand GenomeWebinar sponsored by Illumina, Katie Ellis, senior genetic counselor at Genea, discusses important issues to consider when ordering non-invasive prenatal screening, including patient preferences, technology platforms, test limitations, and the implications of inconclusive results.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/counselling-nipsnipt-five-things-you-need-know)

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/events/counselling-nipsnipt-five-things-you-need-know).

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***ACD Webinar 11:***

**Title:** Resolving Brain Tissues with Spatial Transcriptomics

**Body:** This GenomeWebinar sponsored by ACD features four experts on the use of spatial transcriptomics methods in the brain who discuss their work, the methods they have used, and the new possibilities available to researchers in their fields.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/resolving-brain-tissues-spatial-transcriptomics-virtual-roundtable-discussion)

**SeraCare White Paper 30**

Title: Implementing an NGS Quality Management System for Precision Medicine  
  
Body: This white paper summarizes a presentation from Dr. Keith Gligorich, laboratory operations director at Navican Precision Cancer Care, on his experiences implementing a next-generation sequencing quality management system at Navican. Sponsored by SeraCare.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/genomics-clinical-implementation-success-stories-development-robust-clinical)

***Congenica White Paper 9***

**Title:** **Clinical Use Cases in Which NGS Data Analysis Revealed the Genetic Causes of Elusive Conditions in Patients**

**Body:** This white paper from Congenica describes three clinical use cases in which Veritas Genetics, a personal genomics company, used Congenica next-generation sequencing data analysis software to determine the genetic causes of patients’ conditions.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/panels-exomes-automating-ngs-data-analysis-veritas-genetics).

**Roche White Paper 1**

Title: Flexible, High-Efficiency Library Prep for PCR-free WGS

Body: Read this white paper from Roche to learn about a complete sample prep solution for efficient human WGS on Illumina HiSeq X and NovaSeq instruments.

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/white-papers/kapa-hyperprep-kits-offer-flexible-high-efficiency-library-preparation)

***Bruker GW White Paper 1:***

**Title:** Selecting a Laboratory to Support Oncology Clinical Trials

**Body:** This white paper from Canopy Biosciences outlines considerations for selecting a laboratory to support oncology clinical trials and describes cases of Canopy’s support in trials investigating a biomarker assay and a therapeutic antibody drug.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/promise-and-progress-novel-cancer-therapies-selecting-laboratory-support-your-oncology).

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***Bruker Whitepaper 2:***

**Title:** Navigating Lab Certifications in Clinical and Pre-Clinical Studies

**Body:** This white paper from Canopy Biosciences defines the various laboratory certifications researchers in the clinical, pre-clinical, and research space will encounter and outlines considerations for choosing a lab to partner with for clinical and pre-clinical trials.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/navigating-lab-certifications-clinical-and-pre-clinical-studies).

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***Nanostring White Paper 6: ( Retired )***

**Title:** A Human Whole-Transcriptome Assay for Spatial Profiling

**Body:** This white paper from NanoString introduces the GeoMx Human Whole Transcriptome Atlas assay for the Digital Spatial Profiler, provides general guidelines for region selection to optimize performance, and compares the assay to other technologies to bridge research from lower plex or bulk technologies.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/geomx-human-whole-transcriptome-atlas-digital-spatial-profiler-design-performance-and).

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***Artel White Paper 9:***

**Title:** Assessing Liquid Transfer Performance for PCR, qPCR, and NGS

**Body:** This white paper from Artel demonstrates the ability of PCRMix QualAssure to replicate the liquid transfer behavior of commercially available master mixes, enabling fast and reliable evaluation of pipetting steps with the Multichannel Verification System.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/using-pcrmix-qualassure-assessing-liquid-transfer-performance-mvs)

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***PierianDx GW White Paper 1:***

**Title:** Analyzing Complex Genetic Variants in Clinical Cancer NGS Data

**Body:** This white paper from PierianDx discusses considerations for interpreting and reporting five different types of complex genetic variants in the context of somatic cancer: co-occurring variants, exon-skipping splice variants, gene fusions, copy number variants, and tumor mutation burden, and microsatellite instability.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/analyzing-complex-variants-clinical-ngs-data).

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**Title:** Analyzing Complex Genetic Variants in Clinical Cancer NGS Data

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Download it from the [360Dx White Paper Channel.](http://www.360dx.com/white-paper/analyzing-complex-variants-clinical-ngs-data)

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/analyzing-complex-variants-clinical-ngs-data).

***Glen Research White Paper 4 ( Retired )***

**Title:** **RNA Epigenetics in a Glioblastoma Cell Line**

**Body:** This application note from Glen Research describes advances in the study of RNA epigenetics, major types of RNA modifications, their roles in biology, and their implications in disease. The note examines a publication on the underlying mechanism of cytosine methylation in eliminating the tumor suppressor function of miRNA-181a-5p in a glioblastoma cell line.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/rna-and-5-methylcytosine-epitranscriptomics).

***Qiagen Discovery GW White Paper 10:***

**Title:** A Curated Multiomics Oncology Database to Support Cancer Research

**Body:** This eBook from Qiagen presents four use cases in which researchers employed the Qiagen OncoLand multiomics oncology database for their cancer research publications on the discovery of cancer biomarkers and molecular signatures, and in the development of new targets and therapies.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/dive-deep-molecular-mechanisms-driving-cancer).

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/dive-deep-molecular-mechanisms-driving-cancer).

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***Qiagen Discovery White Paper 11:***

**Title:** A Bioinformatics Platform for Genomic, Transcriptomic, and Epigenomic Analysis

**Body:** This eBook from Qiagen presents use cases demonstrating how the Qiagen CLC Genomics bioinformatics platform can lower the barriers of entry to bioinformatics and can process, aggregate, interrogate, and share molecular data from any sequencing platform and any species.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/take-control-your-bioinformatics-analyses).

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***Qiagen Discovery White Paper 12:***

**Title:** A Comprehensive Set of Bioinformatics Tools to Scale Data Analyses

**Body:** This eBook from Qiagen describes applications for Qiagen CLC Genomics, a set of scalable bioinformatics tools for genomic, transcriptomic, and epigenomic analysis with both single-user desktop and network options, as well as enterprise-wide server and cloud solutions.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/comprehensive-set-bioinformatics-tools-scale-data-analyses).

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***Qiagen Discovery White Paper 13:***

**Title:** Curated Omics Data Portals for Gene Signature, Biomarker, and Target Discovery

**Body:** This infographic from Qiagen describes how data in OmicSoft OncoLand, DiseaseLand, and Single Cell Land omics data portals are gathered, curated, annotated, and deployed to assist the discovery of gene signatures, biomarkers, and drug targets.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/qiagen-omicsoft-lands).

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***Qiagen Discovery White Paper 14:***

**Title:** Single-Cell Genomic Data Portals and Analysis Tools

**Body:** This infographic from Qiagen describes how Qiagen Digital Insights solutions can be applied for single-cell genomic analysis, including single-cell RNA sequencing (scRNA-seq) for biomarker discovery, visualization of scRNA-seq data, cell type identification, oncogenomics, and single-cell pathway analysis.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/single-cell-genomics-qiagen-digital-insights-solutions).

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***SeraCare GW White Paper 48:***

**Title:** Genomic Testing to Support New Therapies for Advanced Cancer Patient Care

**Body:** In this on-demand GenomeWebinar sponsored by SeraCare, experts in molecular pathology, NGS tumor profiling, companion diagnostics development, and precision oncology discuss achievements in precision diagnostics and how to address unmet laboratory and testing needs to support the improvement of cancer patient therapy.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/genomic-testing-support-new-therapies-advanced-cancer-patient-care-panel-discussion).

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***Agilent Bioanalyzer GW Whitepaper 2:*** (RETIRED)

**Title:** Optimizing an NGS Automated Workflow to Characterize Lung Cancer DNA Samples

**Body:** This whitepaper from Agilent presents a study in which researchers from the Anatomical Pathology laboratory of the SS Annunziata Hospital characterized lung cancer samples using a complete Agilent workflow, reliably detecting variants that are not easily detectable with other systems in a single, DNA-based assay, and increasing reproducibility and lab productivity.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/optimization-agilent-ngs-automated-workflow-characterization-nsclc-dna-samples).

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**Body:** This whitepaper from DNA Genotek presents use cases of the Omnigene Oral saliva collection and stabilization kits for COVID-19 diagnostic testing, including adoption in the UK for the country’s Test to Release for International Travel program.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/saliva-samples-covid-19-testing)

***Jumpcode White Paper 1***

**Title:** CRISPR-Mediated Depletion of Ribosomal RNA-Derived DNA

**Body:** This poster from Jumpcode demonstrates the use of CRISPR-mediated ribosomal RNA (rRNA) depletion from RNA-seq libraries, finding that greater than 99 percent of reads derived from rRNA were removed after CRISPR treatment using guide RNA sets designed from the rRNA sequences.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/crispr-mediated-depletion-ribosomal-rna-derived-dna-rna-seq-ngs-libraries).

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***Jumpcode White Paper 2:***

**Title:** A CRISPR-Powered Universal Infectious Disease Assay

**Body:** This poster from Jumpcode presents an RNA metagenomic next-generation sequencing protocol that enables detection of the SARS-CoV-2 genome sequence, the source of any co-infection, and the host transcriptional response in a single workflow.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/crispr-powered-universal-infectious-disease-assay).

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***Jumpcode White Paper 3:***

**Title:** A CRISPR-Based Depletion System to Improve Single-Cell RNA Sequencing

**Body:** This poster from Jumpcode presents a CRISPR-based system to improve single-cell RNA sequencing by depleting uninformative molecules from a sequencing library, allowing sequencer capacity to be efficiently used for greater sensitivity and/or reduced cost.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/improved-single-cell-transcriptional-profiling-crisprclean)

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***Tecan White Paper 13: ( RETIRED )***

**Title:** Integrated UV Quantification and Normalization Without Sample Loss

**Body:** This application note from Tecan demonstrates using the Frida Reader, an add-on module for the Fluent Automation Workstation, to quantify salmon sperm and whole blood DNA samples in a hanging drop at the end of a disposable pipette tip, eliminating sample loss and allowing for automated normalization.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/integrated-uv-quantification-and-normalization-without-sample-loss).

**Thermo Fisher Scientific Webinar 1**  
  
Title: NGS Masters: Whole-Genome Sequencing of cfDNA and ctDNA

Body: In this on-demand webinar from Thermo Fisher Scientific, learn how to enable consistent and reproducible cfDNA library preparation from human plasma samples.

[Watch the video and download the app note.](https://www.genomeweb.com/resources/webinars/ngs-masters-whole-genome-sequencing-cfdna-and-ctdna)

***Ionpath White Paper 1:***

**Title:** Spatial Proteomic Signatures of Breast Cancer of Progression

**Body:** This whitepaper from Ionpath presents a case study in which researchers used multiplexed ion beam imaging (MIBI) to analyze spatial proteomic signatures of surgical resections covering the spectrum of breast cancer progression to understand how the tumor microenvironment changes with transition from ductal carcinoma *in situ* to invasive breast cancer.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/breast-cancer-mibi-spatial-proteomic-signatures-progression).

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***Jumpcode Webinar 1:***

**Title:** Employing the Specificity of CRISPR-Cas9 to Refine NGS Libraries

**Body:** This on-demand webinar from Jumpcode discusses how CRISPRclean technology employs the specificity of CRISPR-Cas9 to degrade selected abundant or biologically uninformative sequences such as ribosomal RNA in prepared next-generation sequencing libraries.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/harness-specificity-crispr-refine-ngs-libraries).

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***10x Genomics White Paper 12: ( RETIRED )***

**Title:** Advances in Immunology With Single-Cell and Spatial Multiomics

**Body:** This eBook from 10x Genomics examines how immunologists are using single-cell and spatial multiomics to study infectious diseases, vaccine and therapeutic development, immuno-oncology, autoimmunity, allergies and inflammation, and transplantation autoimmunity to build a more detailed map of the cellular and molecular signatures of immune cells in health and disease.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/breaking-new-ground-immunology-through-lens-single-cell-and-spatial-multiomics)

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***ACD White Paper 35:***

**Title:** Resolving Brain Tissues with Spatial Transcriptomics

**Body:** This GenomeWeb report is based on a virtual roundtable sponsored by ACD that discussed using new technologies that provide spatial context for cells and their marker genes to investigate brain tissue and illuminate the mechanisms behind brain disorders like Alzheimer’s disease and schizophrenia.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/resolving-brain-tissues-spatial-transcriptomics-virtual-roundtable-discussion).

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***Qiagen GW Webinar 8:***

**Title:** How to Qualify an Enzyme Supplier for Commercial Molecular Assays

**Body:** This on-demand webinar from Qiagen discusses the challenges molecular assay manufacturers face when deciding to purchase enzymes in bulk from an OEM supplier, how to qualify a supplier for a long-term partnership, and considerations such as development capabilities, customization, confidentiality, quality, scaling, and consistency.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/how-qualify-bulk-enzyme-supplier-your-commercial-molecular-assays)

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Download it from the [360Dx Webinar Library.](http://www.360dx.com/events/how-qualify-bulk-enzyme-supplier-your-commercial-molecular-assays)

***Bio-Rad GW White Paper 2:***

**Title:** Basic and Intermediate Quality Control for Medical Laboratories

**Body:** This whitepaper from Bio-Rad summarizes systems, practices, and statistics used for quality control (QC) of diagnostic tests in medical laboratories, including information on how often controls should be run, how to calculate basic QC statistics, and optional QC protocols.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/basic-and-intermediate-quality-control-systems-enhancing-knowledge-and-performance-your)

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/basic-and-intermediate-quality-control-systems-enhancing-knowledge-and-performance-your).

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***Centogene GW White Paper 1:***

**Title:** Identifying a Clinically Relevant Intronic Variant With Whole-Exome Sequencing

**Body:** This whitepaper from Centogene presents a case study in which a physician employed the New CentoXome whole-exome sequencing test to diagnose autosomal dominant neurofibromatosis type 1 in a 14-year-old patient.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/identifying-clinically-relevant-intronic-variant-new-centoxome).

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/identifying-clinically-relevant-intronic-variant-new-centoxome).

***SP Industries GW White Paper 5:***

**Title:** Freeze-Dried Bead Technology for Reagent Storage in Diagnostics and Pharma

**Body:** This technical note from SP Scientific summarizes a webinar that discussed the use of lyophilized bead technology to stabilize biological reagents for long-term, room-temperature storage in the diagnostic and pharmaceutical sectors.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/lyobead-technology-diagnostics-and-pharma-sectors-why-how-what).

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**Title:** Freeze-Dried Bead Technology for Reagent Storage in Diagnostics and Pharma

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/lyobead-technology-diagnostics-and-pharma-sectors-why-how-what).

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***Centogene Webinar 1:***

**Title:** Accelerate Rare Disease Diagnosis with Whole-Exome Sequencing

**Body:** This on-demand webinar from Centogene outlines an enhanced whole-exome sequencing solution that is helping physicians reduce the time required for genetic diagnostics from years to days.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/events/new-centoxome-turning-years-days).

***Glen Research White Paper 6: ( Retired )***

**Title:** Convertible Nucleosides to Detect Polymerase Bypass in DNA Lesions

**Body:** This application note from Glen Research provides an overview of convertible nucleosides — base-modified 2’-deoxynucleoside monomers for site-specific modification of oligonucleotides — and describes the use of convertible dG in post-oligomerization synthesis of lesion-containing double-stranded DNA.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/convertible-nucleosides-detect-polymerase-bypass-dna-lesions).

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***ACD White Paper 36:***

**Title:** Spatial Profiling of Immune Cell Gene Signatures in the Tumor Microenvironment

**Body:** This application note from ACD demonstrates the capabilities of a multiplexed *in situ* transcriptomic approach for the spatial mapping of target genes in the tumor microenvironment of complex and heterogeneous formalin-fixed paraffin-embedded tumor tissues using the RNAscope HiPlex v2 assay.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/spatial-profiling-immune-cell-gene-signatures-tumor-microenvironment).

***10x Genomics GW White Paper 13: ( RETIRED )***

**Title:** Sample Preparation for Single Cell Applications in Oncology

**Body:** This whitepaper from 10x Genomics introduces the core concepts and best practices to optimize sample preparation for single-cell research in oncology, providing pertinent protocols, technical notes, video tutorials, and other resources for each step of the sample preparation workflow.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/sample-preparation-single-cell-applications-oncology)

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***10x Genomics PON White Paper 13: ( RETIRED )***

**Title:** Sample Preparation for Single Cell Applications in Oncology

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/sample-preparation-single-cell-applications-oncology).

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***10x Genomics GW White Paper 14: ( RETIRED )***

**Title:** Multimodal Study of Squamous Cell Carcinoma Finds a Potential Driver of Metastasis

**Body:** This whitepaper from 10x Genomics summarizes a study in which researchers integrated single-cell and spatial transcriptomics to create an atlas of cells in cutaneous squamous cell carcinoma, identifying a subpopulation of tumor-specific keratinocytes as key in communication between tumor cells and cells in the tumor microenvironment.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/multimodal-analysis-human-squamous-cell-carcinoma-reveals-potential-driver-metastasis).

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Download it from the [Precision Oncology News White Paper Channel.](http://www.precisiononcologynews.com/white-paper/multimodal-analysis-human-squamous-cell-carcinoma-reveals-potential-driver-metastasis)

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***Illumina GW White Paper 4:***

**Title:** Ebook: Comprehensive Genomic Profiling Identifies Precision Therapies

**Body:** Comprehensive genomic profiling (CGP) can detect actionable variants to maximize the ability to match cancer patients with the appropriate molecular treatment regimens. This ebook from Illumina provides an in-depth overview of how CGP can improve patient outcomes.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/comprehensive-genomic-profiling-maximize-identification-molecularly-matched-therapies)

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***Illumina PON White Paper 4:***

**Title:** Ebook: Comprehensive Genomic Profiling Identifies Precision Therapies

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/comprehensive-genomic-profiling-maximize-identification-molecularly-matched-therapies).

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***Qlucore GW White Paper 1:***

**Title:** RNA-seq for Genetic Classification of Acute Lymphoblastic Leukemia

**Body:** This white paper from Qlucore outlines the benefits of RNA-seq for classifying acute lymphoblastic leukemia (ALL) as well as strategies for analyzing RNA-seq data in this context.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/genetic-classification-acute-lymphoblastic-leukemia-all-rna-sequencing-emerging).

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***Zymo Research TT GW White Paper 5:***

**Title:** Multi-Organism Transcriptomics with a Novel rRNA Depletion Strategy

**Body:** This application note describes the Zymo-Seq RiboFree Total RNA Library Kit, which uses a novel probe-free rRNA depletion strategy that is compatible with many classes of organisms.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/multi-organism-transcriptomics-zymo-seq-ribofree-total-rna-library-kit).

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***Zymo Research TT GW White Paper 6:***

**Title:** Maximize the Quality of RNA-Seq Libraries and Sequencing Data

**Body:** This white paper from Zymo shares tips and tricks to help maximize the quality of RNA sequencing libraries. These approaches can help minimize the chance of introducing errors and ensure the most reliable, cost-effective data.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/considerations-maximizing-quality-rna-seq-libraries-and-sequencing-data).

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***Zymo Research TT GW White Paper 4:***

**Title:** A Guide to NGS Methods in Liquid Biopsy

**Body:** This white paper from Zymo provides an overview of next-generation sequencing methods used in liquid biopsy, along with an overview of applications, including cancer detection, surveillance, and treatment selection and monitoring, as well as prenatal genetic testing, organ transplant monitoring, and trauma recovery monitoring.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/guide-next-generation-sequencing-methods-liquid-biopsy)

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***Tecan GW White Paper 13: ( RETIRED )***

**Title:** Genomic Surveillance of SARS-CoV-2 With a Streamlined Sequencing Workflow

**Body:** This application note from Tecan describes the coupling of cDNA amplicon creation using the ARTIC SARS-CoV-2 primer set with the Celero EZ library prep kit to create a single protocol that can go from extracted RNA to final sequence data in 24 hours for streamlined variant analysis. For Research Use Only. Not for use in diagnostic procedures.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/white-paper/genomic-surveillance-sars-cov-2-celero-ez-dna-seq).

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***Qlucore 360Dx White Paper 1:***

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/genetic-classification-acute-lymphoblastic-leukemia-all-rna-sequencing-emerging).

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***Illumina GW Webinar 5:***

**Title:** Flexible Capabilities to Enable Comprehensive Genomic Profiling

**Body:** In this on-demand webinar from Illumina, a panel describes the implementation of a comprehensive genomic profiling (CGP) assay at their institutions and discusses how flexible automation, sample batching, data analysis and reporting solutions are key to CGP testing.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/flexible-capabilities-enable-comprehensive-genomic-profiling).

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Download it from the [Precision Oncology News Webinar Library.](http://www.precisiononcologynews.com/events/flexible-capabilities-enable-comprehensive-genomic-profiling)

***GenomOncology GW White Paper 1:***

**Title:** A Clinical Trial Matching Solution for the Pancreatic Cancer Action Network

**Body:** This white paper from GenomOncology describes a case study in which the Pancreatic Cancer Action Network implemented GenomOncology’s clinical trial matching solution to expand clinical trial and targeted therapy matchmaking for pancreatic cancer patients.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/pancreatic-cancer-action-network)

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Download it from the [Precision Oncology News White Paper Channel.](http://www.precisiononcologynews.com/white-paper/pancreatic-cancer-action-network)

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***BD Genomics White Paper 4: ( RETIRED )***

**Title:** Cell Sorting and Single-Cell Multiomics to Profile Immune Cells in B-Cell Lymphoma

**Body:** This white paper from BD Life Sciences examines the B- and T-lymphocyte attenuator (BTLA) in a murine model of B-cell lymphoma using a high-throughput sorting strategy and a single-cell multiomic approach, revealing that the loss of BTLA function may increase the proportions of CD8⁺ T cells that express CD279.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/leveraging-power-high-parameter-cell-sorting-and-single-cell-multiomics-profile).

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***BD Genomics White Paper 5: ( RETIRED )***

**Title:** Transfer of Flow Cytometry Panel from Analyzer to Sorter Before Multiomic Analysis

**Body:** This white paper from BD Life Sciences demonstrates the ability to characterize immune cell populations with a high-parameter flow cytometry panel on a FACSymphony A5 Cell Analyzer and to transfer the same panel to a FACSymphony S6 Cell Sorter for isolation of populations of interest.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/streamlined-transfer-high-parameter-flow-cytometry-panel-cell-analyzer-cell-sorter).

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***BD Genomics White Paper 6: ( RETIRED )***

**Title:** Characterization of Regulatory T Cells with a Single-Cell Analysis System

**Body:** This white paper from BD Life Sciences presents a study that utilized the Rhapsody Human Immune Response Panel and BD AbSeq to dissect regulatory T-cell subsets and identify putative cell differentiation trajectories.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/comprehensive-characterization-regulatory-t-cells-using-bd-rhapsody-single-cell).

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***BD Genomics White Paper 7: ( RETIRED )***

**Title:** Assessing Obesity-Induced Inflammation in Mice with Single-Cell Multiomics

**Body:** This white paper from BD Life Sciences presents a molecular cytometry approach to investigate the perturbances caused by a high-fat diet (HFD) in the immune system, revealing unique disease state immune cell profiles, including signs of CD8⁺ T-cell exhaustion as well as new insights for HFD-induced inflammation and obesity in mice.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/assessing-obesity-induced-inflammation-mice-through-single-cell-multiomics-analysis).

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***BD Genomics White Paper 8: ( RETIRED )***

**Title:** Exploring Tumor Heterogeneity of Chronic Lymphocytic Leukemia With Single-Cell Multiomics

**Body:** This white paper from BD Life Sciences provides an example of simultaneous measurement of protein and mRNA expression at single-cell resolution using BD Rhapsody Single Cell Analysis System on healthy and clinical research chronic lymphocytic leukemia samples.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/exploring-tumor-heterogeneity-chronic-lymphocytic-leukemia-using-single-cell-multiomics)

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***BD Genomics White Paper 9: ( RETIRED )***

**Title:** Resolving Innate Lymphoid Cell Heterogeneity with Advanced Single Cell Multiomics

**Body:** This white paper from BD Life Sciences provides an example of a complete workflow for the characterization of innate lymphoid cells using the BD Rhapsody Single-Cell Analysis System and BD FACSymphony high parameter cell analyzer for cell signature discovery and deep immunophenotyping.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/resolving-human-circulating-innate-lymphoid-cell-heterogeneity-using-advanced-single)

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***BD Genomics White Paper 10: ( RETIRED )***

**Title:** Single Cell Multiomics Analysis for Deep Characterization of Exhausted T Cells

**Body:** This presentation from BD Life Sciences describes a study in which a single-cell multiomic approach was used to resolve exhausted T-cell heterogeneity and identify potential novel cell populations in two biologically relevant models.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/single-cell-multiomics-analysis-deep-characterization-exhausted-t-cells).

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***GenomOncology GW Webinar 1:***

**Title:** Implementing a Clinical Trial Matching Solution at the Pancreatic Cancer Action Network

**Body:** In this on-demand webinar from GenomOncology, speakers from the Pancreatic Cancer Action Network (PanCAN) and GenomOncology discuss how PanCAN utilized GenomOncology’s Clinical Trial Matching solution to streamline the organization’s biomarker-driven clinical trial matching process.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/pancreatic-cancer-action-network-increases-biomarker-driver-clinical-trial-matching).

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***GenomOncology PON Webinar 1:***

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Download it from the [Precision Oncology News Webinar Library.](http://www.precisiononcologynews.com/events/pancreatic-cancer-action-network-increases-biomarker-driver-clinical-trial-matching)

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***DNAnexus White Paper 7:***

**Title:** Multiomics in the Cloud

**Body:** This whitepaper from DNAnexus describes cases in which DNAnexus and Amazon Web Services helped organizations such as Muscular Dystrophy Association, Regeneron, and Human Longevity to navigate the complexity and scale of their biomedical research with cloud-based multiomics services.

Download it from GenomeWeb’s [White Paper Channel](https://gw-resources.genomeweb.com/c/pubRD.mpl?secure=1&sr=pp&_t=pp:&qf=w_defa1551&ch=).

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***Qiagen Discovery GW White Paper 15:***

**Title:** Leiomyosarcoma Mutational and Transcriptomic Signatures in a Patient with Exceptional Survival

**Body:** In this on-demand GenomeWebinar sponsored by Qiagen, speakers present findings from whole-exome sequencing of tumors from a treatment-naive patient with aggressive metastatic uterine leiomyosarcoma and multiple metastases who has experienced survival for more than seven years without therapy except for surgery.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/longitudinal-mutational-landscape-and-transcriptomic-analysis-aggressive-uterine)

***Qiagen Discovery PON White Paper 15:***

**Title:** Leiomyosarcoma Mutational and Transcriptomic Signatures in a Patient with Exceptional Survival

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Download it from the [Precision Oncology News Webinar Library](http://www.precisiononcologynews.com/events/longitudinal-mutational-landscape-and-transcriptomic-analysis-aggressive-uterine).

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***Millipore Sigma White Paper 11:***

**Title:** LC-MS Analysis of Plasma Samples with Solid Phase Extraction Cartridges

**Body:** This white paper from Millipore Sigma describes a study in which a mixture of twenty compounds was analyzed from calf serum using a Supel Swift hydrophilic-lipophilic balanced solid-phase extraction cartridge, finding the cartridge to produce excellent recoveries and minimal ion enhancements.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/lc-ms-analysis-plasma-samples-using-supel-swift-hlb-spe-cartridges).

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***Millipore Sigma White Paper 12:***

**Title:** Resolving Vitamin D Metabolites and Epimers with Ultra-High-Performance Liquid Chromatography

**Body:** This application note from Millipore Sigma demonstrates the use of the Supel Carbon LC ultra-high-performance liquid chromatography column to resolve vitamin D2 and D3 metabolites

and their epimers with high sensitivity.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/uhplc-analysis-vitamin-d2-d3-metabolites-and-epimers-supel-carbon-lc-column).

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***Millipore Sigma White Paper 13:***

**Title:** Determining Plasma Protein Binding with a Micro-Sample Prep Device

**Body:** This white paper from Millipore Sigma demonstrates use of the Supel BioSPME 96-Pin device to measure drug-protein binding to understand the amount of free drug available in blood, finding the technique to save significant time as compared with rapid equilibrium dialysis techniques.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/comparison-supel-biospme-96-pin-device-rapid-equilibrium-dialysis-technique).

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***Millipore Sigma White Paper 14:***

**Title:** Analysis of Drugs of Abuse in Urine After Cleanup with Solid Phase Extraction 96-well Plates

**Body:** This white paper from Millipore Sigma demonstrates the ability to perform cleanup of urine samples using HLB solid-phase extraction for the analysis of opioids via tandem mass spectrometry with the Supel Swift HLB SPE 96-well plate.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/analysis-drugs-abuse-urine-after-cleanup-new-supel-swift-hlb-solid-phase-extraction-96).

***Thermo Fisher White Paper 13:***

**Title:** Detection of Aneuploidies, Segmental Aneuploidies, and Mosaicism

**Body:** This application note from Thermo Fisher Scientific describes performing aneuploidy analysis using Ion ReproSeq PGS Kits and the parameters within Ion Reporter Software that can be adjusted for improved mosaic and segmental copy number variation event calling.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/detection-aneuploidies-segmental-aneuploidies-and-mosaicism-using-ion-reproseq-kits).

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***Glen Research White Paper 7: ( Retired )***

**Title:** Maleimide Click Chemistry for Bioconjugation

**Body:** This application note from Glen Research discusses the “click chemistry” opportunities of the maleimide group as used for chemoselective aqueous bioconjugations of oligonucleotides.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/maleimide-click-chemistry).

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***Nanostring GW White Paper 5:***

**Title:** Selected Cancer Research Publications Using Spatial Analysis From 2020

**Body:** This blog post from NanoString highlights selected cancer research publications from 2020 that used spatial analysis to make discoveries about the tumor microenvironment, immune response, and predicting treatment response.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/best-spatial-biology-publications-2020)

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***Nanostring PON White Paper 5:***

**Title:** Selected Cancer Research Publications Using Spatial Analysis From 2020

**Body:** This blog post from NanoString highlights selected cancer research publications from 2020 that used spatial analysis to make discoveries about the tumor microenvironment, immune response, and predicting treatment response.

Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/best-spatial-biology-publications-2020).

***LGC Group GW White Paper 11:***

**Title:** Maximizing RT-qPCR Success for SARS-CoV-2 Detection

**Body:** This guide from LGC outlines seven tips to get reliable, consistent data from RT-qPCR assays for SARS-CoV-2 detection, including how to maintain sample integrity, build resilience into RNA extraction workflows, and mitigate the effects of viral mutations.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/seven-tips-maximize-rt-qpcr-success-sars-cov-2-detection).

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***LGC Group 360Dx White Paper 11:***

**Title:** Maximizing RT-qPCR Success for SARS-CoV-2 Detection

**Body:** This guide from LGC outlines seven tips to get reliable, consistent data from RT-qPCR assays for SARS-CoV-2 detection, including how to maintain sample integrity, build resilience into RNA extraction workflows, and mitigate the effects of viral mutations.

Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/seven-tips-maximize-rt-qpcr-success-sars-cov-2-detection).

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***Qiagen GW Webinar 9*** ***(was previously mislabeled as Qiagen GW White Paper 21, please update and disregard previous text ad):***

**Title:** Advancing Personalized Oncology with Transcriptomic Profiling and Mechanistic Modeling

**Body:** In this on-demand GenomeWebinar sponsored by Qiagen, Moritz Schütte, head of next-generation sequencing data analysis at Alacris, explores the advantages of RNA sequencing alone or in combination with whole-exome sequencing as part of a precision oncology workflow and how mathematical modeling of molecular data can predict drug sensitivity.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/resources/webinars/advancing-personalized-oncology-transcriptomic-profiling-and-mechanistic-modeling).

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Download it from the [Precision Oncology News Webinar Library](http://www.precisiononcologynews.com/resources/webinars/advancing-personalized-oncology-transcriptomic-profiling-and-mechanistic-modeling).

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***Artel White Paper 10:***

**Title:** A Solution for Optimizing PCR Master Mix Liquid Transfers

**Body:** This white paper from Artel demonstrates the similarities between PCRMix QualAssure, a solution for volume verification and calibration of automated liquid handlers, with various commercially available PCR and qPCR master mixes and shows that aqueous and glycerol/water solutions are not suitable mimics for PCR master mix.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/solution-optimizing-pcr-master-mix-liquid-transfers).

***Onsite copy:***

**Title:** The Best Spatial Biology Publications From 2020

**Shortened Headline:** Selected Cancer Research Publications Using Spatial Analysis From 2020

**Body:** This blog post from NanoString presents selected cancer research publications from 2020 that used spatial analysis to make discoveries about the tumor microenvironment, immune response to tumors, and predicting cancer treatment response.

***Post to:*** GW, PON

***Channels:*** Genetic Research, Gene Expression Research, Biomarker Discovery & Validation, Cancer

***Bulletins:*** GWDN, GW Cancer, PON Daily

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***Nanostring GW White Paper 7: ( Retired )***

**Title:** Selected Cancer Research Publications Using Spatial Analysis From 2020

**Body:** This blog post from NanoString highlights selected cancer research publications from 2020 that used spatial analysis to make discoveries about the tumor microenvironment, immune response, and predicting treatment response.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/best-spatial-biology-publications-2020).

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***Nanostring PON White Paper 7 House ad☹ Retired ) -*** replace with SeraCare PON White Paper 56

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***Qlucore GW Webinar 1: ( Retired )***

**Title:** Using RNA-seq in Clinical Cancer Diagnostics

**Body:** In this webinar from Qlucore, Thoas Fioretos, professor in clinical genetics at Lund University in Sweden, answers questions about using RNA-seq in clinical diagnostics, meeting future needs in precision diagnostics, and new *in vitro* diagnostics regulations.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/using-ngs-and-rna-seq-clinical-cancer-diagnostics)

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***Qlucore GW Webinar 2:***

**Title:** Benefits of Using RNA-seq for Clinical Cancer Diagnostics

**Body:** In this brief video from Qlucore, Thoas Fioretos, professor in clinical genetics at Lund University in Sweden, discusses the major benefits of using RNA-seq in the clinical setting, including patient subtyping and risk stratification, gene expression subtype classification models, and gene fusion analysis.

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***Qlucore GW Webinar 3:***

**Title:** Using RNA-seq for the Diagnosis of Acute Lymphoblastic Leukemia

**Body:** In this brief video from Qlucore, Thoas Fioretos, professor in clinical genetics at Lund University in Sweden, discusses the benefits of using RNA-seq to diagnose acute lymphoblastic leukemias (ALLs), the great majority of which are characterized by gene fusions or display a distinct gene expression signature that can be used for classification.

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***GenomOncology GW White Paper 2:***

**Title:** Reducing Oncology Panel Analysis Time by 30 Percent With A Software Solution

**Body:** This case study from GenomOncology describes how ARUP Laboratories, a national nonprofit diagnostic lab, implemented the Precision Oncology API Suite software solution to reduce time spent on panel analysis and variant annotation, strengthening their testing and analysis offerings.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/arup-laboratories-reduces-turnaround-time-panel-analysis-30-percent-genomoncology).

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***Centogene GW White Paper 2:***

**Title:** Identifying a Mitochondrial Variant with Whole-Exome Sequencing

**Body:** This white paper from Centogene presents a case study in which a physician employed the New CentoXome whole-exome sequencing test to diagnose mitochondrial encephalomyopathy, lactic acidosis, and stroke-like episodes (MELAS syndrome) in a 20-year-old patient.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/identifying-clinically-relevant-mitochondrial-variant-new-centoxome).

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***Agilent Bioanalyzer GW White Paper 3: RETIRED)***

**Title:** Comparison of Manual and Automated NGS Library Prep With a Lung Cancer Assay

**Body:** This white paper from Agilent shows how the Agilent SureSelect HS Cancer All-In-One Lung assay can confirm variants and detect mutations in non-small cell lung cancer formalin-fixed, paraffin-embedded samples and demonstrates that automation can provide greater yield and increased library complexity compared to manual methods.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/comparison-manual-and-automated-ngs-library-preparation-using-magnis-dx-ngs-prep-system).

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***Thermo Fisher GW Webinar 1:***

**Title:** Expanded Carrier Screening: A General Overview

**Body:** This on-demand webinar from Thermo Fisher Scientific reviews the benefits of expanded carrier screening (ECS), presents Mayo Clinic case studies illustrating the capabilities and complexities of ECS, and discusses guidelines to consider in developing ECS content.

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***Thermo Fisher GW Webinar 2:***

**Title:** The Increasing Use of Carrier Screening in Fertility Clinics

**Body:** This on-demand webinar from Thermo Fisher Scientific discusses probabilities of genetic variants, the benefits and challenges of carrier screening and screening technologies, why screening is advantageous in family planning, who should be offered screening, and what should be screened for.

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Download it from the 360Dx [Webinar Library.](http://www.360dx.com/events/increasing-use-carrier-screening-fertility-clinics)

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***Thermo Fisher GW Webinar 3:***

**Title:** The Benefits of PGT-A, PGT-M, and Expanded Carrier Screening in IVF Research

**Body:** In this webinar from Thermo Fisher Scientific, speakers discuss the advantages of preimplantation genetic testing for aneuploidy (PGT-A), testing for monogenetic/single-gene disorders (PGT-M), and carrier screening in *in vitro* fertilization (IVF) research, as well as molecular technologies improving workflows in IVF.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/benefits-pgt-pgt-m-and-expanded-carrier-screening-ivf-research)

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***Thermo Fisher GW Webinar 4:***

**Title:** The Case for Expanded Carrier Screening for Inheritable Genetic Disorders

**Body:** This on-demand GenomeWebinar sponsored by Thermo Fisher Scientific presents cases that highlight the benefits of expanded carrier screening research for lesser-known inheritable conditions and discusses current guidelines and their roles.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/resources/webinars/making-case-expanded-carrier-screening-inheritable-genetic-disorders).

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***10x Genomics White Paper 15: ( RETIRED )***

**Title:** Optimizing Drug Discovery with Single-Cell CRISPR Screens

**Body:** This infographic from 10x Genomics provides references to published studies showing how single-cell CRISPR screens can improve drug target identification, target validation, and progression to pre-clinical studies by amplifying the number of targets assessed in parallel and providing a direct readout of perturbation effects.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/transforming-drug-discovery-single-cell-crispr-screens).

***Centogene GW White Paper 3:***

**Title:** Unraveling a Clinically Relevant Uniparental Disomy with Whole-Exome Sequencing

**Body:** This white paper from Centogene presents a case study in which a physician employed the New CentoXome whole-exome sequencing test to diagnose osteopetrosis type 4 caused by uniparental disomy in a 6-month-old patient.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/unraveling-clinically-relevant-uniparental-disomy-new-centoxome).

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***Qiagen White Paper 25***

**Title:** Accelerating Rare Variant Analysis and Interpretation With AI-Powered Clinical Decision Support Software

**Body:** This application note from Qiagen describes how geneticists at Çukurova University Hospital, who manage one of the largest databases for rare hereditary diseases in the world, employ QCI Interpret clinical decision support software for variant classification and interpretation to identify genetic mutations for patients at the point of care.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/accelerating-rare-variant-analysis-and-interpretation).

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***Qiagen GW White Paper 26:***

**Title:** Hereditary Cancer NGS Testing: Benefits, Challenges, Methods, and Considerations

**Body:** This compendium of application notes from Qiagen describes the benefits and challenges of next-generation sequencing tests for hereditary cancers, as well as opportunities to improve multi-gene panel testing, variant annotation, risk assessment, and reporting of sequencing data with QCI Interpret clinical decision support software.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/hereditary-cancer-ngs-testing-benefits-challenges-methods-and-considerations).

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**Title:** Whole Exome Testing for Rare Diseases

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***SeraCare GW White Paper 49:***

**Title:** Development of a Novel Reference Material for Minimal Residual Disease Monitoring Assays

**Body:** This white paper from LGC SeraCare describes the creation of a reference material combining a tumor-derived component with a sufficiently large number of somatic mutations to accommodate the development, validation, and clinical deployment of custom, tumor-informed, ctDNA-based minimal residual disease monitoring assays.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/development-novel-reference-material-minimal-residual-disease-monitoring-assays).

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***SeraCare GW White Paper 50:***

**Title:** Reproductive Health Reference Materials for PGT-A and NIPT Workflows

**Body:** This application note from LGC SeraCare demonstrates how to use Seraseq Reproductive Health Reference Materials in pre-implantation genetic testing for aneuploidies (PGT-A) and non-invasive prenatal testing (NIPT) to compare methods, compare workflows, and train staff.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/get-most-out-seraseq-reproductive-health-reference-materials)

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***Aptean White Paper 1:***

**Title:** Why Searches for Patented Sequences May Miss Results

**Body:** This white paper from Aptean describes why searches of intellectual property databases for biological sequences — often done during the patent application process or to establish freedom to operate on a sequence — may fail to turn up existing patented sequences.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/patent-sequence-search-why-youre-missing-crucial-sequences).

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***SomaLogic White Paper 7: ( Retired )***

**Title:** Studying COVID-19 Prognosis and Potential Therapies with The World’s Largest Proteomic Assay

**Body:** This white paper describes how SomaLogic’s proteomic platform, the SomaScan Assay, can detect 7,000 proteins in a sample, can be used to study COIVD-19 illness, prognosis, long-term effects, and can identify potential therapies, referencing published studies that employed the platform.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/covid-19-and-somascan-assay)

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***SomaLogic White Paper 8: ( Retired )***

**Title:** Protein Quantitative Trait Loci Analysis for Disease Research

**Body:** This white paper from SomaLogic describes protein quantitative trait loci (pQTL) — genetic regions with variants associated with the concentration of circulating proteins — as well as how pQTL analysis can be used in disease research, challenges in pQTL analysis, and how the SomaScan® Assay can address those challenges.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/pqtl-analysis-latest-tool-disease-research)

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***SomaLogic GW White Paper 9: ( Retired )***

**Title:** Predicting Immunotherapy Response with Circulating Protein Biomarkers

**Body:** This white paper from SomaLogic describes the challenges of using circulating proteins as biomarkers of immunotherapy response and discusses the potential of the SomaScan Proteomic Platform to pinpoint mechanisms of action for immuno-oncology treatment modalities that could help identify new treatment strategies or predict response.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/circulating-protein-biomarkers-are-promising-avenue-predicting-patient-response-cancer)

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***SomaLogic GW White Paper 10: ( Retired )***

**Title:** Serum Protein Signatures as Non-Invasive Tools for Monitoring Nonalcoholic Steatohepatitis

**Body:** This white paper from SomaLogic describes the potential of using proteomic signatures to improve the non-invasive diagnosis and monitoring of liver pathology, and the potential of the SomaScan Proteomic Platform to identify such signatures.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/serum-protein-signatures-non-invasive-tool-monitoring-nonalcoholic-steatohepatitis)

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***SomaLogic GW White Paper 11: ( Retired )***

**Title:** Detecting Low-Abundance Serum Proteins to Inform Cardiovascular Disease Prognosis

**Body:** This white paper from SomaLogic describes how circulating protein biomarkers may offer a reliable tool to predict cardiovascular disease prognosis and describes how the SomaScan Proteomic Platform can identify low-abundance proteins associated with cardiovascular disease risk.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/detection-low-abundance-serum-proteins-associated-cardiovascular-diseases-prognostic)

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***SomaLogic GW White Paper 12: ( Retired )***

**Title:** Detecting Low-Abundance Serum Proteins to Inform Cardiovascular Disease Prognosis

**Body:** This white paper from SomaLogic describes a need for additional biomarkers to predict the risk of developing type 2 diabetes mellitus and the application of the SomaScan Proteomic Platform to identify serum proteins associated with diabetic risk and outcome.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/detection-low-abundance-serum-proteins-associated-prediabetes-predictive-and-prognostic)

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***SomaLogic 360Dx White Paper 12: ( Retired )***

**Title:** Detecting Low-Abundance Serum Proteins to Inform Cardiovascular Disease Prognosis

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Download it from the [360Dx White Paper Channel.](http://www.360dx.com/white-paper/detection-low-abundance-serum-proteins-associated-prediabetes-predictive-and-prognostic)

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***SomaLogic White Paper 13: ( Retired )***

**Title:** Identifying Protein Biomarkers for Aging Research with the SomaScan Assay

**Body:** This white paper from SomaLogic discusses the potential of using proteomic biomarkers in aging research and describes how the SomaScan Proteomic Platform can be used to detect the underlying mechanisms of aging and disease progression.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/identify-protein-biomarkers-aging-research-somascan-assay)

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***Jumpcode GW White Paper 4:***

**Title:** CRISPR-Based Ribodepletion to Optimize Metatranscriptomic Sequencing

**Body:** This white paper from Jumpcode Genomics describes an experiment that used a CRISPR-powered ribosomal RNA depletion strategy to improve metatranscriptomic sequencing of nasopharyngeal samples from COVID-19-positive patients.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/crisprclean-plus-stranded-total-rna-prep-rrna-depletion).

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***Jumpcode 360Dx White Paper 4:***

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Download it from the 360Dx [White Paper Channel](http://www.360dx.com/white-paper/crisprclean-plus-stranded-total-rna-prep-rrna-depletion#.YXloWJrMJdg).

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***Jumpcode GW White Paper 5:***

**Title:** A CRISPR-Based Ribodepletion Strategy to Improve RNA Sequencing in Mammalian Tissue Samples

**Body:** This white paper from Jumpcode Genomics describes an experiment that used a CRISPR-powered ribosomal RNA (rRNA) depletion workflow to deplete mammalian rRNA in tissue samples, improving sensitivity for the detection of more informative but lower expressing transcripts.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/crisprclean-stranded-total-rna-prep-rrna-depletion).

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***Jumpcode 360Dx White Paper 5:***

**Title:** A CRISPR-Based Ribodepletion Strategy to Improve RNA Sequencing in Mammalian Tissue Samples

**Body:** This white paper from Jumpcode Genomics describes an experiment that used a CRISPR-powered ribosomal RNA (rRNA) depletion workflow to deplete mammalian rRNA in tissue samples, improving sensitivity for the detection of more informative but lower expressing transcripts.

Download it from GenomeWeb’s [360Dx White Paper Channel.](http://www.360dx.com/white-paper/crisprclean-stranded-total-rna-prep-rrna-depletion#.YXlqlJrMJdg)

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***TRIBVN GW Webinar 1:***

**Title:** The Future and Impact of Digital Pathology

**Body:** In this on-deamnd webinar from Tribun Health, speakers discuss the future of digital pathology, AI for pathology automation, clinical validation in digital pathology, and the Tribun Health Digital Pathology Platform.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/events/bring-light-more-eye-can-see-future-pathology-tribun-health-platform).

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***TRIBVN PON Webinar 1:***

**Title:** The Future and Impact of Digital Pathology

**Body:** In this on-deamnd webinar from Tribun Health, speakers discuss the future of digital pathology, AI for pathology automation, clinical validation in digital pathology, and the Tribun Health Digital Pathology Platform.

Download it from the [Precision Oncology News White Paper Channel.](http://www.precisiononcologynews.com/events/bring-light-more-eye-can-see-future-pathology-tribun-health-platform)

***Dover Motion White Paper 1:***

**Title:** Four Steps to Optimize the Optics in Automated Imaging Instruments

**Body:** This white paper from Dover Motion describes how to optimize the performance and cost of automated optical imaging systems with six key equations for selecting an imaging sensor, objective lens, and Z-focusing nano-positioning stage.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/four-steps-optimize-optics-automated-imaging-instruments).

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***Dover Motion White Paper 2:***

**Title:** A High-Performance X-Y Sample Positioning Stage for Automated Digital Microscopy

**Body:** This white paper from Dover Motion introduces the SmartStage XY high-performance sample positioning stage for automated digital microscopy and compares its mechanical specifications to alternative technologies.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/disrupting-x-y-motion)

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***Dover Motion White Paper 3:***

**Title:** Innovations in High-Performance Z-Axis Focusing for Automated Digital Microscopy

**Body:** This white paper from Dover Motion discusses high-performance Z-axis focusing for automated microscopy and recent innovations in this space, contrasting piezo actuator technologies — which can be valuable tools in microscopy but can suffer issues of high cost with limited travel, speeds, and bandwidth — with direct-drive linear motor stages.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/better-way-focus)

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***Dover Motion Webinar 1***:

Title: Time Delay Integration (TDI) Imaging

Body: This on-demand webinar from Dover Motion illustrates time delay integration (TDI) scanning imaging, a method to increase instrument throughput when imaging a biological sample or flow cell for DNA sequencing.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/time-delay-integration-tdi-imaging).

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***Dover Motion Webinar 2:***

**Title:** Microscope Calculations Explained: Field of View, Depth of Field, Numerical Aperture, and More

**Body:** In this on-demand webinar from Dover Motion, Chief Technology Officer Kevin McCarthy explains key formulas and considerations for selecting the optimal imaging sensor and microscope objective for digital imaging applications, including sensor size, magnification, microscopy field of view, pixel sizes, resolution, microscope depth of field, and numerical aperture.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/microscope-calculations-explained-field-view-depth-field-numerical-aperture-and-more)

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***Dover Motion Webinar 3:***

**Title:** Piezo Actuators and Their Limitations in Digital Microscopy

**Body:** In this on-demand webinar from Dover Motion, Chief Technology Officer Kevin McCarthy explores different piezo actuator technologies — which can be valuable tools in microscopy but can suffer issues of high cost with limited travel, speeds, and bandwidth — and contrasts them with linear motor stages.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/piezo-actuators-and-their-limitations-digital-microscopy).

***Qiagen 360Dx Webinar 7:***

**Title:** A Somatic Mutation Database Containing Real-World and Curated Data

**Body:** This on-demand webinar from Qiagen describes the Human Somatic Mutation Database, an expert-curated resource containing content from over 300,000 real-world clinical oncology cases combined with content from the Qiagen Knowledge Base, providing gene-level, alteration-level, and disease-level information including clinically observed gene and variant frequencies across diseases.

Download it from the [360Dx Webinar Library](http://www.360dx.com/events/human-somatic-mutation-database-access-real-world-data-and-two-decades-expert-curation).

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***Qiagen PON Webinar 7:***

**Title:** A Somatic Mutation Database Containing Real-World and Curated Data

**Body:** This on-demand webinar from Qiagen describes the Human Somatic Mutation Database, an expert-curated resource containing content from over 300,000 real-world clinical oncology cases combined with content from the Qiagen Knowledge Base, providing gene-level, alteration-level, and disease-level information including clinically observed gene and variant frequencies across diseases.

Download it from the [Precision Oncology News Webinar Library.](http://www.precisiononcologynews.com/events/human-somatic-mutation-database-access-real-world-data-and-two-decades-expert-curation)

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***Qiagen GW White Paper 27:***

**Title:** Comparing Automated and Manual Variant Annotation for Clinical Genomics

**Body:** This white paper from Qiagen examines evidence comparing the quality of Stanford University’s Automatic Variant evidence Database (AVADA) to the manually curated Human Gene Mutation Database (HGMD) for variant annotation in clinical genomics.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/manual-curation-vs-artificial-intelligence-can-automated-variant-evidence-retrieval).

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***Qiagen GW White Paper 28:***

**Title:** Using Whole-Exome Sequencing to Guide Clinical Trial Enrollment for Patients with Cancer

**Body:** This case study from Qiagen discusses how Protean BioDiagnostics partnered with Qiagen Digital Insights to develop a proprietary, multiomic, datacentric diagnostic guidance system to deploy whole-exome sequencing into clinical practice and give oncologists and practitioners access to the latest evidence-based diagnostics, therapeutics, and new clinical trials.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/using-whole-exome-sequencing-guide-clinical-trial-enrollment-patients-cancer).

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Download it from the [360Dx White Paper Channel.](http://www.360dx.com/white-paper/using-whole-exome-sequencing-guide-clinical-trial-enrollment-patients-cancer)

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/using-whole-exome-sequencing-guide-clinical-trial-enrollment-patients-cancer).

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***SeraCare GW White Paper 51:***

**Title:** Blood Tumor Mutational Burden Reference Materials Datasheet

**Body:** This datasheet from LGC SeraCare provides details about the blood TMB assessments for Seraseq Blood TMB Mix Score 7, 13, 20, 26 reference materials as determined using the TruSight Oncology 500 ctDNA panel.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/seraseq-blood-tmb-mix-score-7-13-20-26).

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/seraseq-blood-tmb-mix-score-7-13-20-26).

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***GenomOncology GW White Paper 3:***

**Title:** Supporting Oncology Care with a Precision Oncology Data Platform

**Body:** In this on-demand webinar from GenomOncology, speakers discuss and give examples of how GenomOncology’s solutions support precision oncology programs by providing clinicians access to up-to-date precision oncology information, integrating with institution systems, and presenting relevant data that can be utilized to improve patient outcomes.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/white-paper/accredited-cancer-centers-improve-precision-oncology-care-genomoncology).

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Download it from the [Precision Oncology News Webinar Library.](http://www.precisiononcologynews.com/white-paper/accredited-cancer-centers-improve-precision-oncology-care-genomoncology)

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***Canexia GW Webinar 1: ( DO NOT USE)***

**Title:** Bringing Precision Oncology Testing In-House in Complex Healthcare Systems

**Body:** This on-demand webinar from Canexia Health discusses the opportunities and challenges presented by bringing in-house precision oncology testing to a large, complex, health system, as well as success factors such as personalization, portability, safety, and accessibility.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/making-case-bringing-precision-oncology-testing-house-complex-healthcare-systems)

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Download it from the [360Dx Webinar Library.](http://www.360dx.com/events/making-case-bringing-precision-oncology-testing-house-complex-healthcare-systems)

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***Canexia GW Webinar 2: ( Do not use )***

**Title:** Best Practices for Bringing Plasma Biopsy In-House

**Body:** This on-demand webinar from Canexia Health outlines the benefits of bringing plasma oncology testing in-house versus using send-out services, suggests when organizations might find the transition most beneficial, and outlines the process for transitioning from send-out to in-house testing.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/best-practices-bringing-plasma-biopsy-house)

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Download it from the [Precision Oncology News Webinar Library.](http://www.precisiononcologynews.com/events/best-practices-bringing-plasma-biopsy-house)

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***Canexia GW White Paper 1: ( Do not use )***

**Title:** Serial Monitoring of ctDNA in Metastatic Colorectal Cancer Patients Detects Changes in Mutations and Progression

**Body:** This poster from Canexia Health presents data from a study investigating if longitudinal plasma ctDNA mutation monitoring can aid in predicting clinical progression before standard-of-care CT imaging, with the goal of establishing the Follow It assay as a liquid biopsy tool to assess progression over time in metastatic colorectal cancer patients.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/serial-monitoring-plasma-ctdna-metastatic-colorectal-cancer-patients-detects-changes).

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Download it from the [Precision Oncology News White Paper Channel.](http://www.precisiononcologynews.com/white-paper/serial-monitoring-plasma-ctdna-metastatic-colorectal-cancer-patients-detects-changes)

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***Aptean White Paper 2:***

**Title:** Comprehensive Intellectual Property Sequence Searching

**Body:** This white paper from Aptean describes common limitations and pitfalls of searching intellectual property databases for biological sequences — often done during the patent application process or to establish freedom to operate on a sequence.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/optimize-your-results-how-achieve-comprehensive-faster-efficient-ip-sequence-searching).

***Tecan Webinar 5: ( RETIRED )***

**Title:** Advancing Therapeutics Against Novel Targets for CNS Diseases with Transcriptional Profiling of Brain Cells

**Body:** In this on-demand webinar from Tecan, Dr. Steven Sheardown describes Cerevance’s proprietary NETSseq method for producing transcriptional profiles of brain cell types from mature human brain tissue, and how the company has used the Trio RNA-Seq Library Preparation Kit to generate data from difficult materials.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/advancing-therapeutics-against-novel-targets-cns-diseases-using-netsseq-platform).

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***Tecan Webinar 4: ( RETIRED )***

**Title:** High-Throughput Clinical and Environmental Viral Extraction and Sequencing of SARS-CoV-2 and Novel Viruses

**Body:** In this on-demand webinar from Tecan, Dr. Christopher Mason of Weill Cornell Medicine describes his lab’s work to profile SARS-CoV-2 host response, viral diversification, and drug interactions with shotgun transcriptome and isothermal profiling, as well as efforts to sequence viral RNA from hospital surfaces, public transit systems, household pets, and other sources to understand the behavior and evolution of known and emerging pathogens.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/high-throughput-clinical-and-environmental-viral-extraction-and-sequencing)

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***Tecan GW Webinar 3: ( RETIRED )***

**Title:** How New *In Vitro* Diagnostics Regulations are Affecting the Life Sciences Landscape

**Body:** This podcast episode from Tecan discusses how the new European Union *in vitro* diagnostic medical device regulations — known as IVDR and going into effect in May 2022 — are affecting the life sciences landscape as well as the lessons Tecan has learned in preparing for the new regulations.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/how-new-vitro-diagnostics-regulations-are-affecting-life-sciences-landscape)

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Download it from the [360Dx Webinar Library.](http://www.360dx.com/events/how-new-vitro-diagnostics-regulations-are-affecting-life-sciences-landscape)

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***SeraCare GW Webinar 38:***

**Title:** Prenatal Cell-Free DNA Screening for Common Aneuploidies: Laboratory Adoption and Clinical Considerations

**Body:** In this on-demand GenomeWebinar sponsored by SeraCare, expert panelists discuss recent experiences adopting non-invasive prenatal testing (NIPT) for routine use, designing and executing complex validation studies, and interpreting unexpected results.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/laboratory-adoption-and-clinical-considerations-prenatal-cell-free-dna-screening-common-0).

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Download it from the [360Dx Webinar Library.](http://www.360dx.com/events/laboratory-adoption-and-clinical-considerations-prenatal-cell-free-dna-screening-common-0)

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***Lenovo White Paper 1:***

**Title:** The Role of Genomics Analytics in Precision Medicine

**Body:** In this on-demand webinar from Lenovo, expert panelists discuss trends in genomics-enabled precision medicine, speeding the analysis of whole genomes with the Lenovo Genomics Optimization and Scalability Tool (GOAST), and lessons they’ve learned from deploying large-scale omics analytics.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/role-genomics-analytics-precision-medicine)

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***10x Genomics Webinar 4:*** *(\*was previously mislabeled as 10x Genomics Webinar 3)*

**( RETIRED )**

**Title:** Minimizing Off-Target Effects of Genome Editing

**Body:** In this roundtable discussion, a panel of gene-editing experts will discuss the methods that are being developed to find, assess, and minimize the effects of off-target edits that result from CRISPR-based genome editing and base editing. Our panel will cover a range of topics, including reliable methods for quality control of those effects, what these off-target detection methods have revealed about genome editing, and how they could help CRISPR researchers perfect the technology and broaden its applicability. [Register Here.](https://event.on24.com/wcc/r/3355908/24838E4C05665351C89F57F7797CB5A7?partnerref=genomewebondemanddailybulletins)

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***10x Genomics Webinar 3* ( RETIRED )**

Title: An integrated single cell and spatial atlas of localised breast cancer

Body: In this on-demand webinar from 10x Genomics Dr. Swarbrick leverages multi-omic single cell and spatial sequencing to create a cellular atlas of early breast cancer, enabling identification of new cell types, state, and phenotypes within the tumor and its microenvironment.

Download it from GenomeWeb’s [Webinar Library](https://www.genomeweb.com/resources/webinars/integrated-single-cell-and-spatial-atlas-localised-breast-cancer)

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***IDT GW White Paper 4:***

**Title:** Whole-Exome Sequencing for Cancer Research

**Body:** This handbook from IDT introduces whole-exome sequencing and its applications in cancer research, explains how to implement IDT’s whole-exome panels, reagents, and workflows in oncology research, and presents data on the xGen Exome Research Panel v2.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/whole-exome-sequencing-handbook).

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***IDT PON White Paper 4:***

**Title:** Whole-Exome Sequencing for Cancer Research

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Download it from the [Precision Oncology News White Paper Channel.](http://www.precisiononcologynews.com/white-paper/whole-exome-sequencing-handbook#.YZLkAE7MJdg)

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***BioLegend White Paper 2:***

**Title:** SARS-CoV-2 Biology and Reagents

**Body:** This infographic from BioLegend illustrates and explains the structure and functional elements of the SARS-CoV-2 virus, its interactions with target cells, and the immune response to infection, highlighting reagents that can be used to investigate each stage of infection for diagnostics, treatment, or vaccine development.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/sars-cov-2-biology-and-reagents)

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***Thermo Fisher White Paper 14:***

**Title:** Quality Control for Human Cell Lines and Other Samples Manipulated *Ex Vivo*

**Body:** This white paper from Thermo Fisher Scientific describes tools that can be used to control the quality of *ex vivo* cell and tissue research, ensuring cells are correctly identified, have the correct karyotype and differentiation potential, lack oncogenic mutations, and are free of contaminants.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/quality-control-human-cell-lines-and-other-human-samples-manipulated-ex-vivo).

***Qiagen GW White Paper 29:***

**Title:** Original Equipment Manufacturing with Molecular Diagnostics Companies in Asia

**Body:** In this interview excerpt from Qiagen, Vice President and Head of OEM Kay Koerner discusses the volatility that molecular diagnostics manufacturers faced with their supply chain during the COVID-19 pandemic, how the pandemic affected the OEM business, developing trends in life sciences, and how the diagnostics market is evolving in the APAC region.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/oem-qiagen-advancing-asian-molecular-diagnostic-companies)

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***Qiagen 360Dx White Paper 29:***

**Title:** Original Equipment Manufacturing with Molecular Diagnostics Companies in Asia

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Download it from the [360Dx White Paper Channel.](http://www.360dx.com/white-paper/oem-qiagen-advancing-asian-molecular-diagnostic-companies)

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***Qiagen Discovery White Paper 16:***

**Title:** Oxytocin Signaling Pathways

**Body:** This poster from Qiagen illustrates the molecules and interactions of the oxytocin signaling pathways involved in labor, lactation, bone formation, social behavior, cardioprotection, neuroprotection, and diabetes mellitus as visualized by Qiagen Ingenuity Pathway Analysis software.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/oxytocin-signaling-pathway)

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***Qiagen Discovery White Paper 17:***

**Title:** Pulmonary Healing Signaling Pathways

**Body:** This poster from Qiagen illustrates the molecular activity of the signaling pathways involved in lung healing in response to gastroesophageal reflux, smoke exposure, respiratory viruses, ventilator-induced injury, and other damage as visualized by Qiagen Ingenuity Pathway Analysis software.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/lung-healing-pathways).

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***Qiagen Discovery White Paper 18:***

**Title:** Biomarker and Target Discovery with Data Portals and Analysis Tools

**Body:** This infographic from Qiagen describes how Qiagen Digital Insights solutions can be applied for biomarker and drug target discovery with RNA-seq, gene expression analysis, interaction network analysis, pathway analysis, and other approaches and techniques.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/biomarker-and-target-discovery-qiagen-digital-insights-solutions).

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***Qiagen Discovery White Paper 19:***

**Title:** Discovering the Functional Potential of Microbial Communities Through Whole-Metagenome Shotgun Sequencing Analysis

**Body:** This white paper from Qiagen presents data showing that Actinobacteria and Proteobacteria dominate the microbial community at a polar desert in Antarctica, demonstrating the utility of CLC Genomics Workbench software and CLC Microbial Genomics Module for analyzing the composition and functional potential of microbial metagenomes.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/discovering-functional-potential-microbial-communities-through-whole-metagenome-shotgun)

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***Qiagen Discovery White Paper 20:***

**Title:** Detecting Antimicrobial Resistance in *Salmonella*

**Body:** This white paper from Qiagen demonstrates how mediators of antimicrobial resistance can be determined from the genomes of pathogen isolates, and how their allocation on either the chromosome or plasmid can be resolved using tools of the CLC Microbial Genomics Module for CLC Genomics Workbench software.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/detecting-antimicrobial-resistance-extensively-drug-resistant-salmonella-enterica).

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***Qiagen Discovery GW Webinar 5:***

**Title:** Biomarker and Drug Target Discovery from Public Oncological Data

**Body:** This on-demand webinar from Qiagen demonstrates how to discover and validate biomarkers as well as drug targets and key genes using public oncological data from several sources using Qiagen Omicsoft OncoLand, Qiagen Ingenuity Pathway Analysis (IPA), and the OmicSoft Land Explorer web interface.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/discovery-public-oncological-data-using-qiagen-omicsoft-oncoland-and-qiagen-ingenuity)

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***Qiagen Discovery PON Webinar 5:***

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Download it from the Precision Oncology News [Webinar Library](http://www.precisiononcologynews.com/events/discovery-public-oncological-data-using-qiagen-omicsoft-oncoland-and-qiagen-ingenuity).

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***Qiagen Discovery Webinar 6:***

**Title:** DNA Methylation Data Analysis and Interpretation

**Body:** In this on-demand webinar from Qiagen, viewers will learn how to analyze and interpret DNA methylation data using Qiagen CLC Genomics Workbench and Qiagen Ingenuity Pathway Analysis, including how to annotate methylation, interpret methylation data through pathways, regulators, and functions, and compare different experimental conditions.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/dna-methylation-data-analysis-and-interpretation-using-qiagen-clc-genomics-workbench-and)

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***Qiagen Discovery Webinar 7:***

**Title:** Metagenomic Taxonomic Profiling with an NGS Analysis Toolkit

**Body:** In this on-demand webinar from Qiagen, viewers will learn how to use tools and workflows of the Qiagen CLC Microbial Genomics Module for a broad range of bioinformatics applications, including microbiome analysis, isolate characterization, functional metagenomics, and antimicrobial resistance characterization.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/metagenomic-taxonomic-profiling-using-qiagen-clc-genomics-workbench)

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***PGDx GW White Paper 1: ( Retied )***

**Title:** A Viable Alternative to Send-Out Testing for Comprehensive Genomic Profiling

**Body:** This white paper from PGDx presents results from a study comparing the Elio Tissue Complete Test to send-out testing for comprehensive genomic profiling, finding it to be a viable local testing solution for molecular laboratories and may thereby increase patient access to accurate tumor profiling at a faster turnaround time.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/pgdx-elio-tissue-complete-test-viable-alternative-send-out-testing-comprehensive).

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***PGDx GW White Paper 2: ( Retied )***

**Title:** Liquid Biopsy Complements Tissue Testing for Comprehensive Genomic Profiling

**Body:** This white paper from PGDx presents data that supports the incorporation of circulating tumor DNA (ctDNA) analysis into cancer care to increase biomarker detection and decrease time to treatment, demonstrating the concordance between tissue NGS and the Elio Plasma Resolve assay.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/enabling-precision-therapy-oncology-liquid-biopsy-complements-tissue-testing).

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***PGDx GW White Paper 3: ( Retied )***

**Title:** A Pan-Solid Tumor Comprehensive Genomic Profiling Test

**Body:** This white paper from PGDx presents data demonstrating the predictive value and specifications of the Elio Tissue Complete comprehensive genomic profiling test across several genomic alterations, cancer biomarkers, and tumor types.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/pgdx-elio-tissue-complete-pan-solid-tumor-cgp-test)

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Download it from the [Precision Oncology News White Paper Channel.](http://www.precisiononcologynews.com/white-paper/pgdx-elio-tissue-complete-pan-solid-tumor-cgp-test)

***Glen Research White Paper 8: ( Retired )***

**Title:** Aptamers as Drugs

**Body:** This white paper from Glen Research describes research in developing therapeutic aptamers targeting live cells’ surface structures relevant to signaling and pathway control and describes RNA and DNA phosphoramidites for researchers developing aptamers using systematic evolution of ligands by exponential enrichment (SELEX) methods.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/aptamers-drugs)

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***Klarex Health White Paper 1:***

**Title:** Protocols for Freezing Tissue Samples for Cryostat Sectioning

**Body:** This white paper from Klarex Health describes protocols for optimal cutting temperature compound embedding, liquid nitrogen freezing, and dry ice freezing of tissue samples for cryostat sectioning using the Seal’N Freeze Cryotray.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/sealn-freeze-protocols).

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***Zymo Research TT GW White Paper 7:***

**Title:** Considerations for Maximizing the Quality of RNA-Seq Libraries and Sequencing Data

**Body:** This white paper from Zymo Research describes methods to maximize the quality of RNA-seq libraries, including preserving RNA integrity, enriching RNA of interest, performing clean-up, avoiding excess cycles of PCR, and performing quality control.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/considerations-maximizing-quality-rna-seq-libraries-and-sequencing-data-0).

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***Zymo Research TT GW White Paper 8:***

**Title:** Next-Generation Sequencing Methods in Liquid Biopsy

**Body:** This white paper from Zymo Research outlines next-generation sequencing methods and considerations for liquid biopsy, including sample collection, isolation of cell-free DNA, the advantages of epigenetic-based biomarkers, and profiling techniques.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/guide-next-generation-sequencing-methods-liquid-biopsy-0)

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***Zymo Research TT 360Dx White Paper 8:***

**Title:** Next-Generation Sequencing Methods in Liquid Biopsy

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/guide-next-generation-sequencing-methods-liquid-biopsy).

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Download it from the [Precision Oncology News White Paper Channel.](http://www.precisiononcologynews.com/white-paper/guide-next-generation-sequencing-methods-liquid-biopsy)

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***Zymo Research TT GW White Paper 9:***

**Title:** Multi-Organism Transcriptomics With an rRNA-Depleting Library Kit

**Body:** This white paper from Zymo Research describes the whole-transcriptome analysis of several model organisms using the Zymo-Seq RiboFree Total RNA Library Kit to validate its cross-species compatibility and introduces a complete workflow from RNA extraction to bioinformatic analysis.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/multi-organism-transcriptomics-zymo-seq-ribofree-total-rna-library-kit-0)

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***Zymo Research TT GW White Paper 10:***

**Title:** Considerations for Choosing a 16S rRNA Gene Library Preparation Protocol

**Body:** This white paper from Zymo Research outlines challenges in 16S rRNA sequencing to be considered when adopting a library preparation protocol, including selecting a hypervariable region, controlling PCR chimera formation, and normalization, and describes how the Quick-16S Plus NGS Library Prep Kit addresses those challenges.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/considerations-choosing-16s-rrna-gene-library-preparation-protocol).

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***Zymo Research TT GW White Paper 11***

**Title:** Microbiome Informatics: Operating Taxonomic Unit Clustering Versus Amplicon Sequence Variant Analysis

**Body:** This white paper from Zymo Research reviews the relative advantages and disadvantages of two strategies for minimizing the effects of targeted sequencing error in microbiome informatics, which has the potential to be confounded by erroneous SNVs, resulting in the detection of an incorrect organism or the false discovery of a new organism.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/microbiome-informatics-otu-vs-asv)

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***Zymo Research TT GW White Paper 12:***

**Title:** Considerations for Building an Accurate Shotgun Metagenomic Workflow for Gut Microbiome Profiling

**Body:** This white paper from Zymo Research uses real-world examples to discuss important considerations for building a shotgun metagenomics workflow for microbiome profiling, including microbiome quality control, sample collection and preservation, DNA extraction, library preparation, sequencing, and analysis.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/considerations-building-accurate-shotgun-metagenomic-workflow-gut-microbiome-profiling)

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***SeraCare GW White Paper 52:***

**Title:** Performance of Patient-Like NIPT Reference Materials on a Leading Platform

**Body:** This white paper from LGC SeraCare presents data demonstrating that Seraseq reference samples can be run successfully on an NIPT assay from extraction to sequencing, presenting an alternative solution to hard-to-source patient samples, and offering full process patient-like materials that are compatible with NIPT platforms.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/learn-how-patient-seraseq-nipt-reference-materials-perform-leading-platform).

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***SeraCare 360Dx White Paper 52:***

**Title:** Performance of Patient-Like NIPT Reference Materials on a Leading Platform

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/learn-how-patient-seraseq-nipt-reference-materials-perform-leading-platform).

***Canexia GW White Paper 2: ( Do not use )***

**Title:** Considerations for Bringing Liquid Plasma Biopsy In-House

**Body:** This white paper from Canexia Health outlines the advantages and limitations of liquid biopsy as compared to tissue biopsy and describes best practices for bringing liquid biopsy in-house, including considerations for blood collection, plasma isolation, assay and sequencing technologies, data analysis, and reporting.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/best-practices-bringing-liquid-plasma-biopsy-house).

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Download it from the [Precision Oncology News White Paper Channel.](http://www.precisiononcologynews.com/white-paper/best-practices-bringing-liquid-plasma-biopsy-house)

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***Canexia GW White Paper 3: ( Do not use )***

**Title:** Lessons from a Program to Improve Access to Circulating Tumor DNA Testing During the COVID-19 Pandemic

**Body:** This white paper from Canexia Health describes the key findings from a pilot project to bring circulating tumor DNA (ctDNA) testing to over 2,000 cancer patients with advanced breast, lung, and colorectal cancer in the Canadian health system during the COVID-19 pandemic.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/lessons-learned-national-program-improve-access-cancer-testing-and-treatment-during).

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Download it from the [Precision Oncology News White Paper Channel.](http://www.precisiononcologynews.com/white-paper/lessons-learned-national-program-improve-access-cancer-testing-and-treatment-during)

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***Thermo Fisher White Paper 15:***

**Title:** The Role of Capillary Electrophoresis in Drug Development

**Body:** This white paper from Thermo Fisher Scientific describes how capillary electrophoresis can be used to rapidly screen drugs and determine their mode of action when used in conjunction with *in vitro* assays and how high-throughput and multiplexing capabilities can be implemented to analyze hundreds of samples within hours.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/wait-what-role-capillary-electrophoresis-drug-development).

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***Thermo Fisher White Paper 16:***

**Title:** Sanger Sequencing for Quality Control in Adeno-Associated Virus Vector Production

**Body:** This white paper from Thermo Fisher Scientific highlights the importance of quality control in recombinant adeno-associated virus vector preparations and how DNA sequencing is key to qualitative and quantitative characterization of the product.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/sanger-sequencing-quality-control-aav-vector-production)

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***Thermo Fisher Webinar 5:***

**Title:** Biomarker Analyses of Post-COVID-19 Neurological Complications

**Body:** In this webinar from Thermo Fisher Scientific, Lynn Pulliam discusses her study that suggests possible neurological impacts of peripheral and neuroinflammation after COVID-19 infection and reveals distinctions in possible neural damage associated with the severity of infection.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/biomarker-analyses-post-covid-19-neurological-complications)

***Qiagen GW Webinar 10:*** ***(Previously Qiagen GW Webinar 7)***

**Title:** A Somatic Mutation Database Containing Real-World and Curated Data

**Body:** This on-demand webinar from Qiagen describes the Human Somatic Mutation Database, an expert-curated resource containing content from over 300,000 real-world clinical oncology cases combined with content from the Qiagen Knowledge Base, providing gene-level, alteration-level, and disease-level information including clinically observed gene and variant frequencies across diseases.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/human-somatic-mutation-database-access-real-world-data-and-two-decades-expert-curation).

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***Qiagen 360Dx Webinar 10: (Previously Qiagen 360Dx Webinar 7)***

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Download it from the [Precision Oncology News Webinar Library.](http://www.precisiononcologynews.com/events/human-somatic-mutation-database-access-real-world-data-and-two-decades-expert-curation)

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***Qiagen GW Webinar 7 (Title remains the same)***

**Title:** Precision Clinical Trial Matching

This on-demand webinar from Qiagen provides an overview of COSMIC (Catalog of Somatic Mutations in Cancer), which now allows users to search for drugs that target somatic mutations at all stages of drug development, including those still in development, in clinical trials, or that have been repurposed.

**Body:**

Download it from GenomeWeb’s [White Paper Channel.](https://www.genomeweb.com/resources/webinars/cosmic-describing-millions-somatic-mutations-high-resolution-across-forms-cancer)

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***Qiagen PON Webinar 7 (Previously Qiagen PON Webinar 6)***

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Download it from the [Precision Oncology News White Paper Channel.](https://www.precisiononcologynews.com/resources/webinars/cosmic-describing-millions-somatic-mutations-high-resolution-across-forms-cancer)

***Tecan TT GW White Paper 1: ( Do not use )***

**Title:** Genomic Surveillance of SARS-CoV-2 with an Automation-Ready Library Prep Kit

**Body:** This application note from Tecan describes coupling SARS-CoV-2 cDNA amplicon creation using the ARTIC primer set with the Celero-EZ library prep kit to create a single protocol for sequencing and surveillance that can go from extracted RNA to final sequence in 24 hours and is automation-ready with the use of DreamPrep.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/genomic-surveillance-sars-cov-2-celero-ez-dna-seq-0).

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/genomic-surveillance-sars-cov-2-celero-ez-dna-seq-0).

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***Tecan TT GW White Paper 2( Do not use)***

**Title:** Genomic Surveillance of SARS-CoV-2 with a Library Prep Kit

**Body:** This white paper from Tecan describes the importance of genomic surveillance in the COVID-19 pandemic and outlines protocols for whole-genome and targeted sequencing of the SARS-CoV-2 genome using DreamPrep NGS automated library preparation.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/automated-dreamprep-ngs-protocols-support-sars-cov-2-sequencing-and-genomic)

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***Tecan TT GW Webinar 1: ( Do not use )***

**Title:** Monitoring SARS-CoV-2 Variants Circulating in Neuchâtel, Switzerland

**Body:** In this on-demand webinar from Tecan, the manager of genomics and transcriptomics at PMI Science in Neuchâtel, Switzerland discusses the approaches he and his colleagues have employed to screen, sequence, and identify SARS-CoV-2 variants, as well as how these approaches have allowed for the monitoring of variants in the region.

Download it from GenomeWeb’s [Webinar Channel.](http://www.genomeweb.com/events/dr-nicholas-sierro-discusses-monitoring-sars-cov-2-variants-circulating-neuchatel)

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Download it from the [360Dx Webinar Channel](http://www.360dx.com/events/dr-nicholas-sierro-discusses-monitoring-sars-cov-2-variants-circulating-neuchatel).

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***Olink White Paper 6:***

**Title:** Research Using High-Multiplex Protein Biomarker Discovery Platforms

**Body:** This e-book from Olink contains six articles summarizing peer-reviewed studies that used Olink’s high-multiplex protein biomarker discovery platforms to accelerate the search for drug targets, to understand severe COVID-19 and COVID-19-associated multisystem inflammatory syndrome, to predict lung cancer, and to discover biomarkers of diabetes risk.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/understand-real-time-human-biology-research-summaries-olink).

***Isoplexis TT GW Webinar 1: ( Retired )***

**Title:** Bispecific CAR-T Cancer Therapies: Sharpening a Double-Edged Sword

**Body:** This webinar from IsoPlexis discusses critical functional biomarkers for characterizing CAR-T cell product quality as well as recent advances in the development of bispecific CAR-T therapy that simultaneously targets surface molecules CD19 and CD22.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/sharpening-double-edged-sword-bispecific-car-t-cancer-therapies)

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***Isoplexis TT PON Webinar 1: ( Retired )***

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Download it from the [Precision Oncology News Webinar Library.](http://www.precisiononcologynews.com/events/sharpening-double-edged-sword-bispecific-car-t-cancer-therapies)

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***Isoplexis TT GW White Paper 1***: ( **Retired** )

**Title**: Advances in Cell and Immunotherapies in Treating Cancer

**Body**: This white paper from IsoPlexis summarizes a panel discussion in which four experts in cellular and immunotherapy for cancer treatment shared their thoughts on the growing demands for cell therapies, the safety of novel therapies, cancer vaccines, and other topics in cell and immunotherapy research.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/advances-cell-and-immunotherapies-treating-cancer-expert-panel-discussion)

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Download it from the Precision Oncology News [White Paper Channel](http://www.precisiononcologynews.com/white-paper/advances-cell-and-immunotherapies-treating-cancer-expert-panel-discussion).

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***Isoplexis TT GW White Paper 2: ( Retired )***

**Title:** Understanding Immune Cell Function in Cancer

**Body:** This white paper from IsoPlexis presents four articles discussing immune cell function in cancer, recent high-impact studies in immuno-oncology, the link between polyfunctionality and persistence, how immune cell response relates to cancer prognosis, and how boosting polyfunctionality improves performance.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/understanding-immune-cell-function-cancer).

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***Isoplexis TT PON White Paper 2: ( Retired )***

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/understanding-immune-cell-function-cancer).

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***Qiagen Discovery GW White Paper 24:***

**Title:** Accelerating Exploration of The Cancer Genome Atlas with Manually Curated Clinical Metadata

**Body:** This white paper from Qiagen describes how curators processed datasets from The Cancer Genome Atlas (TCGA) for Qiagen OmicSoft Lands databases, which allow access to uniformly processed datasets, in-depth metadata curation, and data exploration tools that enable quick insights from TCGA data as well data from other repositories and consortia.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/accelerating-tcga-exploration-manually-curated-clinical-metadata)

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***Qiagen Discovery PON White Paper 24:***

**Title:** Accelerating Exploration of The Cancer Genome Atlas with Manually Curated Clinical Metadata

**Body:** This white paper from Qiagen describes how curators processed datasets from The Cancer Genome Atlas (TCGA) for Qiagen OmicSoft Lands databases, which allow access to uniformly processed datasets, in-depth metadata curation, and data exploration tools that enable quick insights from TCGA data as well data from other repositories and consortia.

Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/accelerating-tcga-exploration-manually-curated-clinical-metadata).

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***Qlucore GW Webinar 1:*** *(\*\*Updated\*\*)*

**Title:** Using RNA-seq in Clinical Cancer Diagnostics

**Body:** In this video from Qlucore, Thoas Fioretos, professor in clinical genetics at Lund University in Sweden, answers questions about using RNA-seq in clinical diagnostics, meeting future needs in precision diagnostics, and new *in vitro* diagnostics regulations.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/using-ngs-and-rna-seq-clinical-cancer-diagnostics)

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***Qlucore 360Dx Webinar 1: (\*\*Updated\*\*)***

**Title:** Using RNA-seq in Clinical Cancer Diagnostics

**Body:** In this video from Qlucore, Thoas Fioretos, professor in clinical genetics at Lund University in Sweden, answers questions about using RNA-seq in clinical diagnostics, meeting future needs in precision diagnostics, and new *in vitro* diagnostics regulations.

Download it from the [360Dx Webinar Library](http://www.360dx.com/events/using-ngs-and-rna-seq-clinical-cancer-diagnostics).

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***Qlucore PON Webinar 1: (\*\*Updated\*\*)***

**Title:** Using RNA-seq in Clinical Cancer Diagnostics

**Body:** In this video from Qlucore, Thoas Fioretos, professor in clinical genetics at Lund University in Sweden, answers questions about using RNA-seq in clinical diagnostics, meeting future needs in precision diagnostics, and new *in vitro* diagnostics regulations.

Download it from the [Precision Oncology News Webinar Library](http://www.precisiononcologynews.com/events/using-ngs-and-rna-seq-clinical-cancer-diagnostics).

***Biotech Support Group White Paper 10:***

**Title:** Targeted LC-MS Proteomic Methods Demonstrate Unique Serum Profiles of SARS-CoV-2 Patients

**Body:** This white paper from Biotech Support Group describes a study using sample depletion methods that address the challenges of targeted liquid chromatography-mass spectrometry (LC-MS) for serum samples to assess the functionality of the innate immune response to SARS-CoV-2.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/preliminary-investigation-using-targeted-lc-ms-proteomic-methods-demonstrates-unique).

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***Biotech Support Group White Paper 11:***

**Title:** High-Throughput Depletion of Abundant Blood Proteins with Bead-Containing Pipette Tips

**Body:** This white paper from Biotech Support Group describes new methods combining technologies to incorporate beads for the depletion of highly abundant blood proteins into pipette tips to enable fast, streamlined workflows that simply and robustly increase efficiencies necessary for clinical proteomic analysis of whole blood, serum, and plasma.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/high-throughput-automated-intip-spe-combined-albusorb-products-efficient-albumin-and).

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***Biotech Support Group White Paper 12:***

**Title:** Hemoglobin Removal to Improve Signal in Protein and Non-Protein Analyses

**Body:** This white paper from Biotech Support Group describes published research demonstrating the utility of BSG hemoglobin removal productsfor depleting interfering protein for protein and non-protein analysis applications.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/hemoglobin-removal-gold-standard-products)

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***Biotech Support Group White Paper 13:***

**Title:** The Influence of Sample Prep Bias on LC-MS Targeted Peptide Quantification in Serum Proteomics

**Body:** This application note from Biotech Support Group provides examples of the use of BSG protein enrichment and depletion products to better detect small biological variances in discovery, targeted, and clinical proteomic applications.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/influence-sample-prep-bias-lc-ms-targeted-peptide-quantification-serum-proteomics)

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***Biotech Support Group White Paper 14:***

**Title:** Lipid Removal Reagent Case Studies and Applications

**Body:** This application note from Biotech Support Group provides several examples of published research and patents that employed Cleanascite lipid removal reagent for omics sample preparation.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/cleanascite-lipid-removal-clarification-reference-applications)

**Yourgene Health GW White Paper 1: ( Retired )**

Title: Non-Invasive Prenatal Testing with Automated Gel Electrophoresis

Body: This white paper from Yourgene Health presents data illustrating the benefit of automating fetal DNA enrichment through size selection of cell-free DNA using Yourgene’s LightBench to improve non-invasive prenatal testing (NIPT) results.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/non-invasive-prenatal-testing-automated-gel-electrophoresis).

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**Yourgene Health 360Dx White Paper 1: ( Retired )**

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Download it from the 360Dx [White Paper Channel](http://www.360dx.com/white-paper/non-invasive-prenatal-testing-automated-gel-electrophoresis#.Ye7os3rMJdg).

**Yourgene Health GW White Paper 2: (Retired)**

Title: A Private Provider’s View on Non-Invasive Prenatal Testing

Body: This white paper from Yourgene Health includes a transcript of an interview with a senior midwife with over 20 years of experience in the UK’s National Health Service in which she discusses non-invasive prenatal testing (NIPT), including pre-test counseling and use of the IONA test from Yourgene.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/private-providers-view-nipt).

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**Yourgene Health 360Dx White Paper 2: ( Retired )**

Title: A Private Provider’s View on Non-Invasive Prenatal Testing

Body: This white paper from Yourgene Health includes a transcript of an interview with a senior midwife with over 20 years of experience in the UK’s National Health Service in which she discusses non-invasive prenatal testing (NIPT), including pre-test counseling and use of the IONA test from Yourgene.

Download it from the 360Dx [White Paper Channel.](http://www.360dx.com/white-paper/private-providers-view-nipt#.Ye7pUXrMJdg)

***ACD White Paper 37:***

**Title:** Tissue-Based Gene Therapy Biodistribution Analysis Using *In Situ* Hybridization

**Body:** This report from ACD demonstrates the use of the RNAscope assay to visualize therapeutic adeno-associated virus vector cell tropism and transgene expression in non-human primate retina, simultaneously detecting vector DNA and transgene RNA and identifying specific cell populations using cell markers and vector probes.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/tissue-biodistribution-aav-based-gene-therapy-rnascope-assay)

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***ACD White Paper 38:***

**Title:** Spatial Analysis of microRNA Expression in Diabetic Kidney Disease Tissues

**Body:** This report from ACD demonstrates the use of the RNAscope assay to visualize therapeutic AAV vector cell tropism and transgene expression in non-human primate retina, simultaneously detecting vector DNA and transgene RNA and identifying specific cell populations using cell markers and vector probes.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/expression-mature-micrornas-mir-1287-5p-and-mir-658-upregulated-diabetic-kidney-disease#.Ye8fOXrMJdg)

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***Premier Health GW White Paper 1:***

**Title:** How to Turn Real-World Evidence into Action

**Body:** This e-book from Premier Health introduces real-world evidence, describes sources of real-world evidence, and describes how the PINC AI platform offers a real-world dataset from various sources for conducting clinical, financial, and outcomes analyses on drugs, devices, treatments, disease states, epidemiology, and resource utilization.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/how-turn-real-world-evidence-action)

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/how-turn-real-world-evidence-action#.YfBg5fvMJdg).

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***SeraCare GW White Paper 53:***

**Title:** Performance of ctDNA-Based Measurable Residual Disease (MRD) Reference Materials

**Body:** This poster from LGC Clinical Diagnostics presents data demonstrating the performance of the Seraseq ctDNA MRD Panel Mixes as reference materials for assessing the sensitivity and specificity of patient-specific and fixed-panel liquid biopsy measurable residual disease assays.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/development-and-performance-ctdna-based-measurable-residual-disease-mrd-reference).

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/development-and-performance-ctdna-based-measurable-residual-disease-mrd-reference).

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***SeraCare GW White Paper 54:***

**Title:** Reference Materials for the Analysis of Methylation in Circulating Cell-Free DNA

**Body:** This poster from LGC Clinical Diagnostics describes a set of differentially methylated reference materials for analyses of methylation in circulating cell-free DNA (ccfDNA) to enable the development, optimization, and validation of assays that assess the degree of methylation of ccfDNA across the genome and at specific sites.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/reference-materials-analysis-methylation-circulating-cell-free-dna).

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/reference-materials-analysis-methylation-circulating-cell-free-dna).

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***SeraCare GW White Paper 55:***

**Title:** Tumor Mutational Burden Reference Materials for the Validation of Cell-Free DNA-Based Assays

**Body:** This poster from LGC Clinical Diagnostics demonstrates the use of the Seraseq Blood TMB Score reference materials to provide a tumor-normal matched blood tumor mutational burden (TMB) control to aid the development, validation, and quality control of cell-free DNA assays to determine blood TMB scores of cancer patients.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/development-blood-tmb-reference-materials-validation-ccfdna-based-targeted-ngs-assays)

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***SeraCare GW Webinar 39:***

**Title:** Challenging the Limit of Detection in Liquid Biopsy Assays

**Body:** This webinar from LGC Clinical Diagnostics presents data demonstrating the utility of circulating tumor DNA reference materials in supporting the validation and standardization of liquid biopsy assays and in pushing the limit of detection and the sensitivity of such tests.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/challenging-limit-detection-liquid-biopsy-assays).

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Download it from the [360Dx Webinar Library](http://www.360dx.com/events/challenging-limit-detection-liquid-biopsy-assays).

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Download it from the [Precision Oncology News Webinar Library](http://www.precisiononcologynews.com/events/challenging-limit-detection-liquid-biopsy-assays).

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***ACD Webinar 12:***

**Title:** Using Digital Spatial Profiling for Transcriptomic Analysis of Neuronal Subpopulations

**Body:** In this webinar from ACD, speakers discuss how to use RNAscope *in situ* hybridization and the GeoMx Digital Spatial Profiler to profile excitatory and inhibitory neuronal populations within mouse brain formalin-fixed, paraffin-embedded (FFPE) sections.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/using-digital-spatial-profiling-transcriptomic-analysis-neuronal-subpopulations)

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***ACD Webinar 13:***

**Title:** High-Resolution Detection of DNA Copy Number and Structural Variants with Novel ISH Technology

**Body:** This webinar from ACD discusses how current limitations of DNA *in situ* hybridization assays are addressed by ACD's novel chromogenic ISH DNAscope Assays, which allow researchers to use a standard bright field microscope to visualize and quantify gene copy number variations and gene rearrangements in tissues with spatial context at single-cell resolution.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/high-resolution-detection-dna-copy-number-and-structural-variants-novel-ish-technology)

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***ACD Webinar 14:***

**Title:** The Best 2021 Spatial Genomics Publications Using RNA *In Situ* Hybridization Technology

**Body:** This webinar from ACD reviews some of the key publications from 2021 utilizing RNAscope *in situ* hybridization (ISH) technology to detect gene expression within spatial and morphological tissue context in a multitude of research areas, including neuroscience, oncology, cell and gene therapy, infectious disease, single-cell biology, and more.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/best-2021-spatial-genomics-publications-using-rnascope)

***Tecan TT White Paper 3: ( Do not use )***

**Title:** Library Preparation for Low-Input and Challenging Human Samples

**Body:** This white paper from Tecan presents data demonstrating the detection sensitivity and coverage of the Revelo RNA-seq library preparation kit as compared to a competitor kit when generating human and viral genome libraries from formalin-fixed paraffin-embedded samples and nasal swab samples, respectively.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/revelo-rna-seq-human)

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***Jumpcode White Paper 6:***

**Title:** Improved Transcript Discovery in Single-Cell RNA-seq with rRNA Depletion

**Body:** This poster from Jumpcode Genomics presents data demonstrating how CRISPRclean kits deplete ribosomal RNA and other uninformative transcripts in single-cell RNA-seq workflows before sequencing, reducing the need to sequence uninformative reads and remove them during data analysis, maximizing gene sensitivity.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/improved-transcript-discovery-single-cell-rna-seq-crisprclean).

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***Biofortuna GW White Paper 2:***

**Title:** Benefits of Lyophilised Beads for Stabilizing *In Vitro* Diagnostic Assays

**Body:** This white paper from Biofortuna covers the use and manufacture of lyophilised beads — durable spheres of freeze-dried material formed from accurately measured volumes of customizable formulations — and discusses their utility in point-of-care diagnostics.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/benefits-lyophilised-beads-stabilizing-vitro-diagnostic-ivd-assays)

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/benefits-lyophilised-beads-stabilizing-vitro-diagnostic-ivd-assays).

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***Integra White Paper 11:***

**Title:** Automating the MTT Cell Proliferation, Viability, and Cytotoxicity Assay

**Body:** This application note from Integra Biosciences provides a step-by-step protocol for automating the MTT assay — which measures proliferation, cytotoxicity, or cell activation — using the Assist Plus pipetting robot to improve throughput, reproducibility, safety, and reagent efficiency.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/mtt-cell-proliferation-viability-and-cytotoxicity-assay-assist-plus-pipetting-robot)

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***Integra White Paper 12:***

**Title:** Rapid and Precise Dilutions for the Most Probable Number Test Procedure

1. **Body:** This application note from Integra Biosciences describes how to use the Dose It peristaltic pump to speed the pipetting steps of most probable number (MPN) procedures to estimate the number of viable cells in samples with low numbers of bacteria, particularly for screening food and water for pathogens.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/rapid-and-precise-dilutions-most-probable-number-test-procedure).

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***Integra White Paper 13:***

**Title:** Automated Minimum Inhibitory Concentration Testing

**Body:** This application note from Integra Biosciences provides a procedure for automating the transfer and mixing steps of minimum inhibitory concentration (MIC) testing — performed to assess the effectiveness of antimicrobial compounds — with the Assist Plus pipetting robot to improve test speed and reproducibility.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/automated-minimum-inhibitory-concentration-testing).

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***Integra GW White Paper 14:***

**Title:** Automating Two-Way Sample Pooling for Diagnostics

**Body:** This application note from Integra Biosciences provides a procedure for automating two-way sample pooling in diagnostic assays with the Assist Plus pipetting robot, increasing sample testing while reducing reagent use and sources of error.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/efficient-two-way-sample-pooling-automated-assist-plus).

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Download it from the [360Dx White Paper Channel.](http://www.360dx.com/white-paper/efficient-two-way-sample-pooling-automated-assist-plus)

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***DNA Script White Paper 1:***

**Title:** SARS-CoV-2 Primers Produced with Novel Enzymatic Synthesis Technology

**Body:** This application note from DNA Script demonstrates the use of primers produced with enzymatic DNA synthesis (EDS) technology for whole-genome amplicon sequencing and phylogenetic analysis of SARS-CoV-2 isolates using the ARTIC network protocol, showing EDS primers to perform comparably to commercial primers.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/sars-cov-2-amplicon-sequencing)

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***DNA Script White Paper 2:***

**Title:** Guide RNA Production with Novel Enzymatic Synthesis Technology

**Body:** This application note from DNA Script demonstrates the use of enzymatic DNA synthesis to support CRISPR/Cas9-based gene editing by enabling rapid production and screening of guide RNAs, accelerating the production, screening, and optimization of sgRNAs in rapid cycles of iteration, each only requiring a few days.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/guide-rna-production)

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***DNA Script White Paper 3:***

**Title:** SARS-CoV-2 Spike Protein Mutagenesis

**Body:** This application note from DNA Script demonstrates the use of primers produced with novel enzymatic DNA synthesis technology in a site-directed mutagenesis strategy to produce optimized and variant SARS-CoV-2 spike protein expression plasmids, showing the primers to support efficient multi-site mutagenesis.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/sars-cov-2-spike-protein-mutagenesis)

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***DNA Script Webinar 1:***

**Title:** Custom Library Adaptors Via Enzymatic Synthesis Improve Real-Time Nanopore Sequencing

**Body:** This on-demand GenomeWebinar, sponsored by DNA Script, discusses how benchtop enzymatic DNA synthesis enables the rapid creation of oligonucleotides that can be combined with real-time nanopore DNA sequencing to accelerate iterative design and testing cycles in synthetic biology.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/custom-library-adaptors-enzymatic-dna-synthesis-improve-precision-real-time-nanopore)

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***DNA Script Webinar 2:***

**Title:** Using Oligonucleotides Printed with Enzymatic Synthesis Accelerates *Candida glabrata* Mutagenesis Workflow

**Body:** This on-demand webinar from DNA Script provides an overview of enzymatic DNA synthesis, the core technology behind the Syntax benchtop enzymatic DNA printer, which the Pasteur Institute has leveraged for a variety of applications, including rRNA depletion, COVID-19 research, and mutagenesis studies.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/using-oligos-printed-demand-enzymatic-dna-synthesis-accelerates-candida-glabrata-mutagenesis).

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***DNA Script Webinar 3***

**Title:** Benchtop Enzymatic Oligonucleotide Synthesis Workflow

**Body:** This video from DNA Script outlines the workflow for the Syntax System for automated, benchtop enzymatic DNA synthesis, printing up to 96 unique oligos of up to 60 nucleotides in length, quantified and normalized for immediate use in molecular biology or genomics workflows.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/dna-script-syntax-system-workflow).

***Dover Motion White Paper 4:***

**Title:** Improving a Biomarker Imaging Platform with a Combined X, Y, and Z Solution

**Body:** This case study from Dover Motion describes their collaboration with NanoView Biosciences in which Dover Motion’s motorized microscope stages provided a combined motion solution for X, Y, and Z axes to improve the throughput and reliability of NanoView’s next-generation exosome biomarker imaging platform.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/improving-biomarker-imaging-smartstage-x-y-and-z).

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***Dover Motion Webinar 4:***

**Title:** A Combined X, Y, and Z Solution to Improve a Biomarker Imaging Platform

**Body:** This video from Dover Motion describes their collaboration with NanoView Biosciences in which Dover Motion’s motorized microscope stages provided a combined motion solution for X, Y, and Z axes to improve the throughput and reliability of NanoView’s next-generation exosome biomarker imaging platform.

Download it from GenomeWeb’s [Webinar Channel.](http://www.genomeweb.com/events/video-improving-biomarker-imaging-smartstage-x-y-and-z)

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***Integra GW White Paper 15:***

**Title:** Automated SARS-CoV-2 Assay Set-Up Using a Pipetting Robot

**Body:** This application note from Integra Biosciences describes how to set up the Assist Plus pipetting robot to automate the reagent addition, mixing, and sample addition steps of the Quidel Lyra Direct SARS-CoV-2 Assay to improve reproducibility, overcome inter-operator variability, and free up time for laboratory staff.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/quidel-lyra-direct-sars-cov-2-automated-assay-set-using-assist-plus-pipetting-robot).

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***Integra 360Dx White Paper 15:***

**Title:** Automated SARS-CoV-2 Assay Set-Up Using a Pipetting Robot

**Body:** This application note from Integra Biosciences describes how to set up the Assist Plus pipetting robot to automate the reagent addition, mixing, and sample addition steps of the Quidel Lyra Direct SARS-CoV-2 Assay to improve reproducibility, overcome inter-operator variability, and free up time for laboratory staff.

Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/quidel-lyra-direct-sars-cov-2-automated-assay-set-using-assist-plus-pipetting-robot).

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***Integra White Paper 16:***

**Title:** Automated Cell Seeding with Handheld Electronic Pipettes

**Body:** This application note from Integra Biosciences provides a step-by-step protocol for using Viaflo handheld electronic pipettes for reproducible cell washing, transfer, and seeding steps in the culture of mouse embryonic stem cells.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/precise-and-reproducible-automated-cell-seeding-viaflow-96-and-viaflow-384-handheld#.YgboAZbMJdh).

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***Integra White Paper 17:***

**Title:** Agarose Gel Loading with an Adjustable Tip Spacing Pipette

**Body:** This application note from Integra Biosciences explains how the Voyager electronic adjustable tip spacing pipette offers one-handed operation and automatic adjustment of tip spacing to enable aspiration and dispensing of samples from well plates or PCR strips into the pockets of an agarose gel, allowing for multiple samples to be transferred simultaneously.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/increase-speed-and-efficiency-loading-agarose-gels-using-voyager-pipette).

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***Integra White Paper 18:***

**Title:** Improving the Efficiency of Coating Plates and Flasks with Collagen for Cell Culture

**Body:** This application note from Integra Biosciences describes a protocol for coating plates and flasks with collagen using the Dose It laboratory peristaltic pump to save time and reduce excess strain as compared to a regular pipette controller.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/improving-efficiency-coating-plates-and-flasks-collagen).

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***Qiagen GW Webinar 11:***

**Title:** How a National Cancer Research Center Identifies Meaningful Mutations in Somatic Tumor Testing

**Body:** This on-demand GenomeWebinar, sponsored by Qiagen, describes how the Institute for Oncology and Radiology of Serbia, a research center that provides routine NGS testing for cancer patients, uses the Human Somatic Mutation Database in their testing pipeline to validate, assess, and understand the clinical significance of detected variants.

Download it from GenomeWeb’s [Webinar Library](http://www.genomeweb.com/events/information-overload-actionable-insights-how-national-cancer-research-center-identifies).

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Download it from the Precision Oncology News [Webinar Library.](http://www.precisiononcologynews.com/events/information-overload-actionable-insights-how-national-cancer-research-center-identifies)

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***ACD Webinar 15:***

**Title:** Spatial Genomics in Preclinical Cancer Models

**Body:** This webinar from ACD discusses using RNAscope *in situ* hybridization technology to understand the spatial relationships among different cell types within the tumor microenvironment, profile immune checkpoint markers, characterize immune cell types, and support the development of cell therapies by visualizing cells in preclinical models.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/applications-spatial-genomics-pathology-animal-models)

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***ACD Webinar 16:***

**Title:** An *In Situ* Hybridization Assay for Single-Cell and Spatial Transcriptomic Profiling

**Body:** This webinar from ACD demonstrates detection and characterization of tumor-infiltrating immune cells in spatial and morphological context using the RNAscope HiPlex v2 *in situ* hybridization assay to advance understanding of the dynamic crosstalk within the complex and heterogeneous tumor microenvironment.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/rnascope-hiplex-v2-enhancing-your-spatial-genomics-story)

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***Jumpcode White Paper 7:***

**Title:** CRISPR-Based Ribodepletion for Nasopharyngeal Samples

**Body:** This application note from Jumpcode Genomics provides a workflow for using CRISPRclean Plus CRISPR-based ribodepletion with COVID-positive and negative nasopharyngeal samples, which contain a mixture of human and bacterial cells, to remove RNA “noise” from assays, allowing insights into variants, co-infections, and host responses.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/crisprclean-plus-sars-cov-2-shotgun-metatranscriptomic-sequencing)

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***DNAnexus White Paper 8:***

**Title:** Responsible and Compliant Data Sharing Between Diagnostics and Pharmaceutical Companies

**Body:** This white paper from DNAnexus provides an overview of the FDA’s Quality System Regulations (QSRs) and GxP guidelines, describes how to comply with QSRs to form strategic pharma partnerships, and describes how DNAnexus can help companies build and support global compliance collaborations.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/powering-future-diagnostics-qsrs-and-gxp-compliance-partnering-pharma-and-beyond).

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***DNAnexus White Paper 9:***

**Title:** Scaling Genomic Data Infrastructure to Speed Drug Discovery and Development

**Body:** This white paper from DNAnexus describes the infrastructure and automation requirements that enable the scale and speed of operations at the Regeneron Genetics Center (RGC), how the RGC achieved the scale to sequence 500,000 samples per year, how the center operates now, and how it is preparing for the future.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/how-regeneron-bypasses-bottlenecks-iterate-speed-and-scale-science)

***PGDx GW White Paper 4: ( Retired )***

**Title:** Decentralizing Precision Oncology Trials: Opportunities and Challenges for Implementing a Patient-Centric Model

**Body:** This report from PGDx is a summary of a GenomeWeb Virtual Roundtable discussion in which panelists discussed how pharmaceutical companies and researchers are rolling out decentralized clinical trials employing telemedicine, mobile apps, wearable monitoring devices, and local labs and imaging centers to facilitate greater patient participation in research.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/decentralizing-precision-oncology-trials-opportunities-and-challenges-implementing).

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***PGDx PON White Paper 4: ( Retired )***

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/decentralizing-precision-oncology-trials-opportunities-and-challenges-implementing).

***Lenovo White Paper 2:***

**Title:** Increasing Throughput for Multiomic Analysis at Barcelona Supercomputing Center

**Body:** This case study from Lenovo describes how the Barcelona Supercomputing Center reduced execution times for multiomics analyses, increased throughput capacity, and accelerated time-to-insight with the Genomics Optimization and Scalability Tool.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/case-study-lenovos-genomics-optimization-and-scalability-tool-barcelona-supercomputing).

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***Lenovo White Paper 3:***

**Title:** High-Performance Computing at the University of Delhi’s Department of Genetics

**Body:** This case study from Lenovo describes how the Centre for Genetic Manipulation of Crop Plants at the University of Delhi’s Department of Genetics employed Lenovo to accelerate research by providing high-performance computing hardware solutions and assistance with tuning, optimizing, and simplifying complex workflows with custom scripts to increase usability.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/case-study-how-university-delhi-reduces-time-insight-key-research-projects)

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***Qiagen Discovery GW White Paper 25:***

**Title:** Pulmonary Hypertensive Arterial Disease Network

**Body:** This white paper from Qiagen illustrates a pulmonary hypertensive arterial disease network of molecules, functions, and diseases generated by a machine learning model, revealing a set of connected molecular players and relevant biological functions that represent pulmonary arterial hypertension.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/augmented-molecular-intelligence-applied-pulmonary-hypertensive-arterial-disease)

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***CellCarta GW White Paper 1:***

**Title:** Quantification of Serum B-Cell Maturation Antigen in Multiple Myeloma

**Body:** This poster from CellCarta presents an overview of a high-throughput method for the precise and accurate quantification of serum B-cell maturation antigen, which can provide information about multiple myeloma patient prognosis and report on the extent of disease burden following treatment.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/quantification-sbcma-human-plasma-using-high-throughput-hybrid-ip-mrm-based-mass)

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***CellCarta GW White Paper 2:***

**Title:** Optimizing and Validating a Chromogenic Multiplex IHC Assay

**Body:** This white paper from CellCarta describes the optimization and validation of a brightfield chromogenic triplex CD8/Granzyme B/FOXP3 immunohistochemistry assay and discusses how this assay could be used for future clinical applications to better predict response to therapy.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/chromogenic-multiplex-ihc-assay).

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/chromogenic-multiplex-ihc-assay#.Yh51P6vMJdg).

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***CellCarta White Paper 3:***

**Title:** Sample Logistics and Kitting Solutions

**Body:** This white paper from CellCarta presents case studies illustrating the capabilities of Clinical Logistics Inc. to collect, monitor, manage, store, and ship clinical samples for clinical trials and reference labs.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/sample-logistics-and-kitting-solutions)

***SeraCare GW Webinar 40:***

**Title:** Understanding and Clarifying the Complexities of HRD Measurements in Cancer

**Body:** This on-demand GenomeWebinar, sponsored by LGC SeraCare, brings together academic, clinical, IVD, and pharmaceutical experts in the clinical genomics and therapeutics fields to discuss the promises and challenges of homologous recombination deficiency measurement for cancer management.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/understanding-and-clarifying-complexities-hrd-measurements-cancer)

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***Biotech Support Group GW White Paper 15:***

**Title:** Substantiating Correlations for Stromal Conditioning Using Blood Biomarkers and Tumor Tissue Profiles

**Body:** This white paper from Biotech Support Group describes how it may be possible to create a liquid biopsy-based clinical tool to provide relevant information about the state of the tumor microenvironment to accurately quantify intra-tumoral stromal content at numerous time points from a noninvasive blood draw.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/stroma-liquid-biopsy-substantiating-correlations-stromal-conditioning-using-blood)

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Download it from the [Precision Oncology News White Paper Channel.](http://www.precisiononcologynews.com/white-paper/stroma-liquid-biopsy-substantiating-correlations-stromal-conditioning-using-blood)

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***Sengenics TT White Paper 1:***

**Title:** Assessing Rheumatoid Arthritis Autoantibody Response

**Body:** This white paper from Sengenics describes a study that used a protein microarray to identify known and novel autoantibody responses to citrullinated proteins using rheumatoid arthritis patient serum samples.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/assessing-ra-patient-autoantibody-response-citrullinated-immunome-proteins)

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***Sengenics TT White Paper 2:***

**Title:** A Novel Functional Protein Microarray for Autoantibody Discovery

**Body:** This white paper from Sengenics describes several case studies in which researchers employed a protein microarray platform for neurodegenerative disease research, autoantibody biomarker discovery in prostate cancer, and autoantibodies profiling during malaria infection.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/autoantibody-discovery-using-novel-microarray-functional-proteins)

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***Sengenics TT White Paper 3:***

**Title:** Predictive Toxicology with a Protein Microarray

**Body:** This white paper from Sengenics illustrates how a protein microarray platform can predict the severity of adverse effects, predict the right dosage and/or combination of administered drugs, and predict the overall response of patients to drugs.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/fully-functional-protein-microarray-predictive-toxicology-studies)

***Cytiva Webinar 1:***

**Title:** Optimizing Cell Viability for Single-Cell Omics

**Body:** This webinar from Cytiva discusses how effective tissue processing can help single-cell omics to advance, challenges with current tissue processing techniques, the advantages of mild, automated tissue dissociation for optimizing cell viability, and data demonstrating the advantages of automated processing for high-throughput single-cell omics applications.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/optimizing-cell-viability-single-cell-omics)

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***Cytiva White Paper 4:***

**Title:** Single-Cell Sequencing: The Challenges and Opportunities

**Body:** This white paper from Cytiva describes recent advances in single-cell sequencing methodologies, their workflows and applications, and the opportunities and challenges presented by single-cell sequencing technology.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/single-cell-sequencing-challenges-and-opportunities)

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***Integra White Paper 19:***

**Title:** Purifying PCR Products with a Handheld Electronic Pipette

**Body:** This application note from Integra Biosciences describes how to purify PCR products of impurities like primers, unincorporated nucleotides, buffers, salts, mineral oils, agarose, and enzymes with Qiagen’s QiaQuick 96 PCR Purification kit and the Viaflo 96 handheld electronic pipette, which reduces hands-on time improves reproducibility.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/pcr-product-purification-qiaquick-96-pcr-purification-kit-and-viaflo-96-handheld)

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***Integra White Paper 20:***

**Title:** Automated Sample Transfer from Tubes to Plates with a Pipetting Robot

**Body:** This application note from Integra Biosciences provides a protocol for transferring samples from tubes to plates using the Assist Plus pipetting robot in combination with a Voyager adjustable tip spacing pipette to reduce human error and hands-on time.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/fast-and-efficient-automated-sample-transfer-tubes-plates-assist-plus-pipetting-robot).

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***Integra GW White Paper 21:***

**Title:** Adjustable Tip Spacing Pipette Ensures Consistent Pipetting When Setting Up a Group A *Streptococcus* Assay

**Body:** This application note from Integra Biosciences provides a protocol for using the Voyager adjustable tip-spacing pipette to set up the Qiudel Solana Group A *Streptococcus* assay to cut down the time to results and to ensure that all analysts follow the same pipetting procedure each time the assay is performed.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/voyager-adjustable-tip-spacing-pipette-ensures-consistent-pipetting-between-lab-staff).

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***Integra 360Dx White Paper 21:***

**Title:** Adjustable Tip Spacing Pipette Ensures Consistent Pipetting When Setting Up a Group A *Streptococcus* Assay

**Body:** This application note from Integra Biosciences provides a protocol for using the Voyager adjustable tip-spacing pipette to set up the Qiudel Solana Group A *Streptococcus* assay to cut down the time to results and to ensure that all analysts follow the same pipetting procedure each time the assay is performed.

Download it from the 360Dx [White Paper Channel.](http://www.360dx.com/white-paper/voyager-adjustable-tip-spacing-pipette-ensures-consistent-pipetting-between-lab-staff#.YiuihonMJdg)

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***DNAnexus GW White Paper 10:***

**Title:** Accelerating the Development of Diagnostic Tests with a New Benchmark

**Body:** This white paper from DNAnexus describes a new benchmark developed by the Genome in a Bottle Consortium, led by the National Institute of Standards and Technology, Baylor College of Medicine, and DNAnexus, to provide diagnostic companies with resources required to validate their protocols and methods for new medically relevant targets.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/accelerating-development-diagnostic-tests-new-benchmark)

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/accelerating-development-diagnostic-tests-new-benchmark).

***Norgen White Paper 6: ( Retired )***

**Title:** Exosome Purification and Applications

**Body:** This infographic from Norgen Biotek summarizes exosomes, methods for purifying exosomes, and downstream applications of exosome purification and analysis such as disease monitoring and drug delivery.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/exosomes-essentials)

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***Thermo Fisher Webinar 6:***

**Title:** Single-Cell Inference of CRISPR-Cas9-Mediated Antiviral Gene Editing in HIV-Infected Myeloid Cells

**Body:** This webinar from Thermo Fisher Scientific discusses using single-cell sequencing to evaluate the efficiency of CRISPR-Cas9-mediated antiviral gene editing to knock out HIV provirus in infected myeloid cells and render the cells refractory to HIV infection.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/single-cell-inference-crispr-cas9-mediated-antiviral-gene-editing-hiv-infected-myeloid-cells)

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***Thermo Fisher Webinar 7:***

**Title:** CRISPR-Mediated Modeling and Treatment of Tandem Duplications in Rare Inherited Disorders

**Body:** This webinar from Thermo Fisher Scientific discusses using CRISPR-Cas9 genome editing to model tandem duplication disorders, such as Duchenne muscular dystrophy and MECP2 duplication syndrome*,* and how a single-sgRNA approach can be used to correct duplication mutations and treat tandem duplication disorders.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/crispr-mediated-modeling-and-treatment-tandem-duplications-rare-inherited-disorders)

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***Thermo Fisher Webinar 8:***

**Title:** Genetic Analysis Tools for Genome Editing Workflows

**Body:** This webinar from Thermo Fisher Scientific discusses the importance of analyzing the efficiency of CRISPR-Cas9-mediated genome editing as well as tools available for genome editing analysis.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/genetic-analysis-tools-genome-editing-workflows)

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***Almac GW Webinar 1:***

**Title:** Clinical Trial Assay Development and Validation: Strategies for Success

**Body:** This on-demand webinar from Almac highlights a series of case studies to explore the strategic considerations for developing and validating molecular diagnostics tests to ensure they are both robust and compliant with appropriate global regulatory frameworks for prospective clinical trial stratification.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/clinical-trial-assay-development-and-validation-strategies-success)

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Download it from the [360Dx Webinar Library](http://www.360dx.com/events/clinical-trial-assay-development-and-validation-strategies-success).

***Millipore Sigma GW White Paper 15:***

**Title:** Considerations When Developing Diagnostic Assays Using Leading-Edge Technologies

**Body:** This application note from Millipore Sigma highlights key considerations for emerging and established companies as they advance novel molecular diagnostics from the bench to commercial production and distribution and how a contract manufacturing partner can help.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/considerations-when-developing-diagnostic-assays-using-leading-edge-technologies).

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/considerations-when-developing-diagnostic-assays-using-leading-edge-technologies).

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***Ionpath Webinar 1:***

**Title:** Spatial Profiling of Metabolic Regulation in the Human Tumor Microenvironment Using Multiplexed Ion Beam Imaging

**Body:** This on-demand GenomeWebinar sponsored by Ionpath presents a method to quantify proteins that regulate metabolic pathways and describes how researchers uncovered the spatial organization of metabolic programs in human tissues, which indicated the existence of metabolic niches and exclusion of metabolically repressed immune cells from the tumor–immune boundary.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/resources/webinars/spatial-profiling-metabolic-regulation-human-tumor-microenvironment-using)

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***Ionpath White Paper 2:***

**Title:** Spatial Profiling of Metabolic Regulation in the Human Tumor Microenvironment

**Body:** This white paper from Ionpath summarizes a GenomeWebinar that presented a method to quantify proteins that regulate metabolic pathways and described how researchers uncovered the spatial organization of metabolic programs in human tissues, which indicated the existence of metabolic niches and exclusion of metabolically repressed immune cells from the tumor–immune boundary.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/spatial-profiling-metabolic-regulation-human-tumor-microenvironment).

***AWS White Paper 4:***

**Title:** Cloud Services for Genomic Data Storage, Transfer, Interpretation, and Workflow Automation

**Body:** This white paper from Amazon Web Services (AWS) describes use cases in which genomics businesses and organizations employed AWS to reduce time to discovery, scale operations, and reduce costs while operating securely, achieving regulatory compliance, and maintaining data sovereignty.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/aws-genomics-empowering-genomic-innovations-intersection-technology-and-biology)

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***AWS White Paper 5:***

**Title:** Genomics in the Cloud

**Body:** This infographic from AWS summarizes the challenges posed by the transfer, storage, analysis, aggregation, and governance of ever-increasing amounts of genomics data and describes use cases in which genomics businesses and organizations employed AWS to reduce time to discovery, scale operations, and reduce costs.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/genomics-cloud).

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***AWS White Paper 6:***

**Title:** Considerations and Use Cases for Genomic Cloud Migration

**Body:** This ebook from AWS describes considerations for migrating genomic data storage and analysis to the cloud to reduce cost, enhance security, and access more analysis tools, referencing case studies from life science organizations and academic publications.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/starting-your-cloud-modernization-journey).

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***AWS White Paper 7:***

**Title:** Considerations and Use Cases for Genomic Cloud Migration

**Body:** This infographic from AWS describes cases of health organizations utilizing cloud services to consolidate and analyze health data, personalize therapies, expand access to care, and employ patient-driven health strategies.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/welcome-era-personalized-health).

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***ACD Webinar 17:***

**Title:** Spatial Mapping of Genes with a Novel *In Situ* Hybridization Assay

**Body:** This on-demand webinar from ACD reviews the applications for RNAscope, an *in situ* hybridization technique to detect gene expression within the spatial and morphological tissue context, including details on workflows and supported sample types.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/spatial-mapping-genes-using-rnascope-technology-overview)

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***ACD GW White Paper 39:***

**Title:** Characterization of Immune Cell Phenotypes With a 12-Plex *In Situ* Hybridization Assay

**Body:** This application note from ACD demonstrates how the Halo image analysis platform can be employed with the RNAscope HiPlex v2 assay to quantitatively assess differential expression of 12 RNA targets, quantify six distinct cell phenotypes based on gene expression, and analyze spatial relationships between cell phenotypes within the Tumor Microenvironment.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/characterization-immune-cell-phenotypes-through-quantification-12-plex-spatial-rnascope).

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***ACD PON White Paper 39:***

**Title:** Characterization of Immune Cell Phenotypes With a 12-Plex *In Situ* Hybridization Assay

**Body:** This application note from ACD demonstrates how the Halo image analysis platform can be employed with the RNAscope HiPlex v2 assay to quantitatively assess differential expression of 12 RNA targets, quantify six distinct cell phenotypes based on gene expression, and analyze spatial relationships between cell phenotypes within the Tumor Microenvironment.

Download it from [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/characterization-immune-cell-phenotypes-through-quantification-12-plex-spatial-rnascope)

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***ACD GW White Paper 40:***

**Title:** Quantitative *In Situ* Hybridization Image Analysis Guide

**Body:** This white paper from ACD provides examples of RNAscope *in situ* hybridization assays, discusses experimental considerations, addresses common challenges, introduces Halo image analysis solutions, and answers common quantitative image analysis questions.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/quantitative-rnascope-image-analysis-guide).

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***ACD PON White Paper 40:***

**Title:** Quantitative *In Situ* Hybridization Image Analysis Guide

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Download it from [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/quantitative-rnascope-image-analysis-guide)

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***Asuragen White Paper 11:***

**Title:** A Targeted CFTR Assay that Addresses Genetic Diversity in the US Population

**Body:** This poster describes Asuragen’s AmplideX PCR/CE CFTR Kit, which interrogates the most prevalent pathogenic variants for multiple ancestries in the US population. The kit overcomes the shortfalls of other targeted CFTR variant panels, which fail to bridge the gap of genetic diversity across the US demographic, and often require cumbersome workflows and/or specialized instrumentation.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/verification-targeted-pcrce-cftr-assay-and-companion-software-addresses-93-mutation)

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***Asuragen White Paper 12:***

**Title:** Carrier Screening Results: An Educational Guide for Clinicians

**Body:** This guide from Asuragen discusses potential gaps in genetic information from often-used carrier screening tests for cystic fibrosis, spinal muscular atrophy, and fragile X syndrome, and explains how to provide more comprehensive and reliable information for all patients.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/carrier-screening-results-how-ensure-reliable-information-all-patients).

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***Asuragen White Paper 13:***

**Title:** Interpreting SMA Variants as they Relate to Disease Prognosis and Carrier Risk

**Body:** This white paper from Asuragen discusses the latest clinical research on variants related to spinal muscular atrophy, including how they relate to the underlying genetics and outcomes for SMA disease prognosis and carrier risk.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/interpreting-variants-amplidex-pcrce-smn12-plus-and-sma-plus-kits)

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***Asuragen White Paper 14:***

**Title:** Single-Platform Testing of the FMR1, SMN1/2, and CFTR Gene Trio

**Body:** Carrier screening for fragile X syndrome, cystic fibrosis, and spinal muscular atrophy often requires distinct molecular diagnostic methods and analysis platforms for each gene. This poster from Asuragen demonstrates the feasibility of trio carrier screening of FMR1, SMN1/2, and CFTR using existing workflows and a single analysis platform.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/enabling-single-platform-testing-and-carrier-screening-fmr1-smn12-and-cftr-gene-trio)

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***Asuragen White Paper 15:***

**Title:** CFTR Screening in Diverse Populations with Effective Variant Panels

**Body:** Recent studies show that typical cystic fibrosis mutation panels do not include mutations frequently found in many ethnicities, leading to reduced detection sensitivity in diverse populations. This white paper from Asuragen discusses how the expanded understanding of CF and its underlying genetics is the key to effective testing for all individuals regardless of ethnic background.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/making-coverage-count-screening-cftr-mutations-diverse-populations-effective-variant)

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***Blacktrace White Paper 2:***

**Title:** Encapsulation of Cells in Agarose to Support High-Throughput Analysis

**Body:** This application note from Dolomite Bio describes the encapsulation and cultivation of mammalian cells in agarose beads using the Nadia Innovate, illustrating the instrument’s potential in the field of single-cell analysis in hydrogel scaffolds.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/encapsulation-cells-agarose-nadia-innovate-and-nadia-instrument)

***Yourgene Health White Paper 3: ( Retired )***

**Title:** Illumina Nextera XT Library Preps Yield More Data with Ranger Technology

**Body:** This application note from Yourgene Health describes a study that used Yourgene’s Ranger Technology to standardize the fragment length distribution for Nextera XT library preps. Ranger allows for the tightly regulated control of average insert size and definitive exclusion of short fragments that may be present in over-fragmented Nextera XT libraries.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/illumina-nextera-xt-library-preps-yield-more-data-ranger-technology)

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***Yourgene Health White Paper 4: ( Retired )***

**Title:** Fluorometric Quantitation of Nucleic Acids: A Comparison of Qubit and Ranger Technology

**Body:** This application note describes recent updates to Yourgene Health’s Ranger Technology that have enabled solution-based quantitation of samples in a 96-well plate format, as well as the results of a comparison of the Ranger Technology with the Qubit fluorometer.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/fluorometric-quantitation-nucleic-acids-comparison-qubit-and-ranger-technology)

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***Yourgene Health White Paper 5: ( Retired )***

**Title:** Isolation of Specific Size Ranges in cfDNA Samples for Target Enrichment

**Body:** This application note from Yourgene Health describes the benefits of the Nimbus Select with Ranger Technology for target enrichment for cell-free DNA applications. By leveraging proprietary real-time analysis of the entire electrophoretic pathway, the instrument provides automated and highly reproducible size selection.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/isolation-specific-size-ranges-cfdna-samples-target-enrichment).

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***Yourgene Health White Paper 6: ( Retired )***

**Title:** SequencingMetagenomic Clone Libraries at Low Cost and High Contiguity

**Body:** This application note from Yourgene Health describes a study that was conducted to validate the Nimbus Select with Ranger Technology for metagenomic applications. The system has preparative and quality control capabilities and users can size select up to 96 metagenomic clone libraries in a single run.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/metagenomic-clone-libraries-can-be-sequenced-low-cost-and-high-contiguity-nimbus-select)

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***Yourgene Health Webinar 1: ( Retired )***

**Title:** Getting to the DNA You Care About in Liquid Biopsy

**Body:** This on-demand webinar provides an overview of the Ranger Technology for DNA size selection and enrichment and includes several case studies that highlight the benefits of the technology for liquid biopsy applications.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/getting-dna-you-care-about-liquid-biopsy)

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***Yourgene Health Webinar 2: ( Retired )***

**Title:** Size Selection of cfDNA Improves Signal-to-Noise in Liquid Biopsy

**Body:** In this on-demand webinar, Kimberly Holden, a research associate at Laboratory Corporation of America, explains how size selection can enhance signal for the detection of tumor-specific variants in cancer patients.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/size-selection-cell-free-dna-increases-proportion-tumor-specific-variants-cancer-patients)

***SeraCare GW White Paper 56:***

**Title:** NGS-Based Reference Materials for Variant Detection in Lymphoma

**Body:** This poster from LGC SeraCare presents data illustrating the performance of biosynthetic reference materials that allow analysis of a broad range of somatic mutations and gene fusions and can aid testing laboratories in accurately detecting and quantifying various types of genetic events in lymphoma patient samples.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/comprehensive-ngs-based-reference-materials-variant-detection-lymphoid-cancer).

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***SeraCare 360Dx White Paper 56:***

**Title:** NGS-Based Reference Materials for Variant Detection in Lymphoma

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Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/comprehensive-ngs-based-reference-materials-variant-detection-lymphoid-cancer).

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Download it from the [Precision Oncology News White Paper Channel.](http://www.precisiononcologynews.com/white-paper/comprehensive-ngs-based-reference-materials-variant-detection-lymphoid-cancer)

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***SeraCare GW White Paper 57:***

**Title:** Reference Materials for ctDNA-Based MRD Assay Development and Validation

**Body:** This poster from LGC SeraCare presents data supporting the use of the Seraseq ctDNA MRD Panel kit, composed of four tumor fractions at decreasing levels, to validate both patient-specific and fixed-panel targeted circulating tumor DNA MRD assays.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/reference-materials-ctdna-based-measurable-residual-disease-mrd-assay-development-and).

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**Title:** Reference Materials for ctDNA-Based MRD Assay Development and Validation

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/reference-materials-ctdna-based-measurable-residual-disease-mrd-assay-development-and).

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***SeraCare GW White Paper 58:***

**Title:** The Challenge of Standardizing the Measurement of an Imprecise Biomarker like HRD

**Body:** This poster from LGC SeraCare presents data on the characterization and implementation of a set of reference materials for the standardization of homologous recombination deficiency (HRD) assessment, composed of HRD-negative, -borderline, and -positive tumor/normal matched cell lines.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/challenge-standardizing-measurement-imprecise-biomarker-hrd).

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***SeraCare 360Dx White Paper 58:***

**Title:** The Challenge of Standardizing the Measurement of an Imprecise Biomarker like HRD

**Body:** This poster from LGC SeraCare presents data on the characterization and implementation of a set of reference materials for the standardization of homologous recombination deficiency (HRD) assessment, composed of HRD-negative, -borderline, and -positive tumor/normal matched cell lines.

Download it from the [360Dx White Paper Channel](http://www.360dx.com/white-paper/challenge-standardizing-measurement-imprecise-biomarker-hrd).

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***SeraCare GW White Paper 59:***

**Title:** Novel Reference Materials for the Analysis of Methylation in Liquid Biopsies

**Body:** This poster from LGC SeraCare presents data on three reference materials created to address challenges associated with assessing the methylation of circulating cell-free DNA in order to support the design, optimization, and validation of liquid biopsies for detecting cancer-derived DNA in the blood.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/novel-reference-materials-analysis-methylation-liquid-biopsies).

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***SeraCare GW White Paper 60:***

**Title:** Development of Blood TMB Reference Materials for Validation of cfDNA-Based Targeted NGS Assays

**Body:** This poster from LGC SeraCare presents data supporting the use of blood tumor mutational burden (bTMB) reference materials that can aid in the development, validation, and quality control of circulating cell-free DNA assays used to determine TMB scores from blood samples.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/development-blood-tmb-reference-materials-validation-cfdna-based-targeted-ngs-assays).

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***Akoya GW White Paper 1:***

**Title:** Deep Ultra High-Plex Spatial Phenotyping of Human Cancer Tissues

**Body:** This poster from Akoya Biosciences presents ultra-high plex single-cell spatial phenotyping of whole slide human FFPE tissues with 100 protein biomarkers encompassing immune cell lineage, activation states, immune checkpoints, tissue structure, apoptosis, DNA damage, and metabolism enabled by the PhenoCycle-Fusion system.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/deep-ultra-high-plex-spatial-phenotyping-human-cancer-tissues).

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Download it from the [Precision Oncology News White Paper Channel.](http://www.precisiononcologynews.com/white-paper/deep-ultra-high-plex-spatial-phenotyping-human-cancer-tissues)

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***Akoya White Paper 2:***

**Title:** Deep Ultra High-Plex Spatial Phenotyping of Human Cancer Tissues

**Body:** This application note from Akoya Biosciences describes a study in which spatial analysis of post-mortem tissue from patients with COVID-19 revealed loss of tissue structure as well as lymphocyte-rich infiltration in late-stage disease, implicating the possibility of T cells providing a protective environment against viral spread to surrounding cells.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/spatial-phenotyping-immune-cell-subsets-patients-lethal-covid-19)

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***Akoya White Paper 3:***

**Title:** Deep Ultra High-Plex Spatial Phenotyping of Human Cancer Tissues

**Body:** This white paper from Akoya Biosciences provides examples and case studies demonstrating how spatial phenotyping can assist in analyzing tissues at the level of single cells, studying cellular neighborhoods, and investigating how cell types behave differently in different contexts.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/how-spatial-phenotyping-can-uncover-novel-insights-tissue-biology).

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***Akoya Webinar 1:***

**Title:** Improving Plex, Resolution, and Throughput in Spatial Biology

**Body:** In this on-demand webinar from Akoya Biosciences, speakers define spatial phenotyping, discuss how new technologies are improving resolution, plex, and throughput, and provide examples of work scientists are performing to advance the field of spatial biology.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/breaking-iron-triangle-spatial-biology-creating-plex-resolution-throughput-trifecta)

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***Devyser GW White Paper 1:***

**Title:** An NGS-Based Method for Chimerism Monitoring

**Body:** In this case study from Devyser, the medical director of the Section of Transplantation Immunology at Sweden’s Karolinska University Hospital discusses how new highly sensitive and precise methods for mixed chimerism analytics are transforming post-transplant monitoring, enabling earlier detection and treatment.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/new-ngs-based-method-chimerism-monitoring).

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***Devyser GW White Paper 2:***

**Title:** Overcoming Limitations in the Detection of Mixed Chimerism

**Body:** This white paper from Devyser highlights the importance of chimerism as a diagnostic tool for clinicians treating transplanted patients and discusses the evolution of novel diagnostic tools for the early detection of mixed chimerism.

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***Cytiva White Paper 5:***

**Title:** Comparative Study of Tissue Dissociators for Single-Cell RNA Sequencing Analysis

**Body:** This white paper from Cytiva investigates the ability of the Via Extractor tissue disaggregator to generate suspensions of high-quality single cells from fresh tissue for use in scRNA-seq analysis, finding it to provide a higher yield of viable mouse liver cells in a shorter period as compared to a competing dissociator.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/comparative-study-extractor-tissue-disaggregator-tissue-dissociation-single-cell-rna)

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***Qiagen GW White Paper 30:***

**Title:** How Co-Occurring Oncogenic Mutations Impact Clinical Outcomes

**Body:** This white paper from Qiagen presents use cases in acute myeloid leukemia and glioma demonstrating the importance of adequately annotating and interpreting co-mutations in human cancers, and how the presence of co-occurring mutations can inform diagnosis, prognosis, and therapy options.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/how-co-occurring-oncogenic-mutations-impact-clinical-outcomes).

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Download it from the [Precision Oncology News White Paper Channel](http://www.precisiononcologynews.com/white-paper/how-co-occurring-oncogenic-mutations-impact-clinical-outcomes).

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***Lexogen White Paper 1:***

**Title:** RNA Sequencing: A Comprehensive Overview

**Body:** This ebook from Lexogen introduces and discusses a comprehensive range of topics related to next-generation RNA sequencing, including RNA extraction, quality control, enrichment and depletion, library preparation, sequencing technology, and data analysis.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/welcome-world-rna)

***ERS Genomics GW White Paper 1:***

**Title:** Cas9 or Cas12: Picking the Right CRISPR System for Your Needs

**Body:** This white paper from ERS Genomics describes the major differences between Cas9 and Cas12 CRISPR systems and discusses specificity, reliability, and patent considerations for choosing a system for commercial, research, and diagnostics applications.

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***Devyser GW White Paper 3:***

**Title:** The Role of Chimerism Following Hematopoietic Stem Cell Transplantation

**Body:** This white paper from Devyser details the role of chimerism in patients following hematopoietic stem cell transplantation, the utility of chimerism analysis as a tool for clinical decision making, and considerations for maximizing the potential of chimerism assays in the clinic.

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***Qiagen GW Webinar 12:***

**Title:** Solving Every Hereditary Disorder Case for All Types of Genetic Variation

**Body:** This on-demand webinar from Qiagen shows, through a series of use cases, how to maximize the diagnostic yield of hereditary disorders with QCI Interpret, a clinical decision support platform that can streamline the interpretation workflow using a comprehensive collection of up-to-date, manually curated molecular knowledge and bibliography evidence.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/solving-every-hereditary-disorder-case-all-types-genetic-variation)

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Download it from the [360Dx Webinar Library](http://www.360dx.com/events/solving-every-hereditary-disorder-case-all-types-genetic-variation).

***Agilent White Paper 2:***

**Title:** Quality Assessment of NGS Libraries Using Automated Electrophoresis Instruments

**Body:** This paper from Agilent provides data highlighting the capability of Agilent automated electrophoresis instruments to accurately size and quantify NGS libraries to aid in generating robust sequencing results.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/quality-assessment-ngs-libraries-using-agilent-automated-electrophoresis-systems)

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***ERS Genomics White Paper 2:***

**Title:** How CRISPR Can Help the Switch to Sustainable Cosmetics

**Body:** This white paper from ERS Genomics describes how biotechnology firms are using CRISPR-Cas9 to engineer microbes to sustainably produce biomolecules used in cosmetics without the need for plant or animal sources.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/hottest-makeup-trend-green-how-crispr-can-help-switch-sustainable-cosmetics)

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***Millipore Sigma GW Webinar 4:***

**Title:** Early Cancer Detection with Glycosaminoglycan Profiling

**Body:** In this video, Swedish diagnostics firm Elypta discusses innovation in glycosaminoglycan (GAG) extraction and measurement as novel biomarkers for early cancer detection.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/enabling-earlier-cancer-detection-glycosaminoglycan-profiling)

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***Millipore Sigma GW Webinar 5:***

**Title:** Bringing Revolutionary CRISPR-based Diagnostics to Market

**Body:** In this video, Tim Patno, Vice President of product development for Mammoth Biosciences, describes how the company uses the latest CRISPR technology to make fast and simple molecular diagnostic solutions more widely available.

Download it from GenomeWeb’s [Webinar Library.](https://www.genomeweb.com/events/bringing-revolutionary-crispr-based-diagnostics-market)

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Download it from the 360Dx [Webinar Library.](http://www.360dx.com/events/bringing-revolutionary-crispr-based-diagnostics-market)

***Integra White Paper 22:***

**Title:** Automating Transfection-Grade Plasmid DNA Purification

**Body:** This application note from Integra Biosciences describes the use of the Assist Plus pipetting robot and the Viaflo 12-channel electronic pipette to automate plasmid DNA isolation with the Macherey-Nagel NucleoSpin 96 Plasmid Transfection-Grade kit and NucleoVac 96 Vacuum Manifold to offer more hands-free time and increase reproducibility.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/transfection-grade-plasmid-dna-purification-using-macherey-nagels-nucleospin-96-plasmid)

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***Integra White Paper 23:***

**Title:** Semi-Automated Medium Exchange in Spheroid Microplates

**Body:** This application note from Integra Biosciences describes a semi-automated protocol using an automated pipetting system for cell seeding and medium exchange for assays using spheroids, *in vitro* scaffold-free 3D cell culture models that are aggregated from one or more organ-specific cell types.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/semi-automated-medium-exchange-akura-96-and-384-spheroid-microplates-viaflo-96-and).

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***Integra White Paper 24:***

**Title:** Automation of Tissue Nucleic Acid Extraction and Purification Kits on a Pipetting Robot

**Body:** This application note from Integra Biosciences provides a protocol for automating Macherey-Nagel’s NucleoSpin 96 Tissue extraction and purification kit using the Assist Plus pipetting robot to eliminate pipetting errors and reduce the strain of repetitive pipetting.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/automation-macherey-nagel-nucleospin-96-tissue-kit-assist-plus-pipetting-robot)

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***Integra White Paper 25:***

**Title:** Automation of an RNA Extraction Kit on a Pipetting Robot

**Body:** This application note from Integra Biosciences provides a protocol for automating Macherey-Nagel’s NucleoSpin 96 RNA extraction kit using the Assist Plus pipetting robot to eliminate pipetting errors and reduce the strain of repetitive pipetting.

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***ERS Genomics White Paper 3:***

**Title:** CRISPR-Cas9 for Rapid Vaccine Development

**Body:** This white paper from ERS Genomics describes applications for CRISPR-Cas9 systems in accelerating vaccine research and development.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/crispr-cas9-rapid-vaccine-development)

***CellCarta GW White Paper 4:***

**Title:** Streamlining Adoptive Cell Therapy Programs with Digital PCR

**Body:** This white paper from CellCarta describes the principals of digital PCR (dPCR) and how dPCR-based pharmacokinetics assays can de-risk adoptive cell therapy development.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/streamline-your-adoptive-cell-therapy-program-digital-pcr).

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***Thermo Fisher GW White Paper 17:***

**Title:** Genetic Insights for Biopharmaceuticals: Propelling Drug Candidates into Therapeutic Assets

**Body:** This white paper from Thermo Fisher Scientific presents data describing how genetic analysis is enabling more rapid and efficient clinical trials, how the integration of genetic analysis technologies is evolving in the pharma and biotech spaces, and how Thermo Fisher Scientific genetic analysis solutions may enable a competitive advantage.

Download it from GenomeWeb’s [White Paper Channel](http://www.genomeweb.com/white-paper/genetic-insights-biopharmaceuticals-propelling-drug-candidates-therapeutic-assets).

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***Thermo Fisher GW White Paper 18:***

**Title:** Why Accurate Detection and Identification of Respiratory Pathogens is at the Core of Treatment

**Body:** This infographic from Thermo Fisher Scientific summarizes pathogens, symptoms, and testing methods for respiratory tract infections and describes the benefits of molecular testing.

Download it from GenomeWeb’s White Paper Channel.

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***Thermo Fisher 360Dx White Paper 18:***

**Title:** Why Accurate Detection and Identification of Respiratory Pathogens is at the Core of Treatment

**Body:** This infographic from Thermo Fisher Scientific summarizes pathogens, symptoms, and testing methods for respiratory tract infections and describes the benefits of molecular testing.

Download it from the 360Dx White Paper Channel.

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***ACD Webinar 18:***

**Title:** Detecting Small Regulatory RNAs with Single-Molecule Sensitivity and Single-Cell Resolution

**Body:** This on-demand webinar from ACD provides an overview of the miRNAscope assay workflow along with a summary of the miRNAscope technology, as well as guidance for sample preparation and pretreatment, assay design, and troubleshooting.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/mirnascope-assay-detecting-small-regulatory-rnas-single-molecule-sensitivity-and-single-cell)

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***ACD Webinar 19:***

**Title:** Visualizing Novel RNA Biomarkers at Subcellular Resolution

**Body:** This on-demand webinar from ACD presents the RNAscope *in situ* hybridization platform and discusses its applications in single-cell spatial gene expression analysis as well as publications in neuroscience and oncology that used the platform.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/seq-insight-visualize-new-rna-biomarkers-subcellular-resolution-mrna-mirna)

***ERS Genomics White Paper 4:***

**Title:** CRISPR-Cas9 to Overcome Antibiotic-Resistant and Pathogenic Bacteria

**Body:** This white paper from ERS Genomics describes how CRISPR-Cas9 antimicrobials are being investigated to combat antibiotic resistance by inducing bacterial cell death, suppressing growth, deleting functional genes from pathogens, or altering mobile elements responsible for transferring resistance genes.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/crispr-antibiotics-turning-defense-offense)

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***Qiagen GW White Paper 32:***

**Title:** Using a Somatic Database at the Institute for Oncology and Radiology of Serbia

**Body:** This case study from Qiagen describes how clinical laboratory geneticists at the Institute for Oncology and Radiology of Serbia use the Human Somatic Mutation Database, or HSMD, which contains curated genomic content relevant to solid tumors and hematological malignancies.

Download it from GenomeWeb’s [White Paper Channel.](http://www.genomeweb.com/white-paper/vital-victory-serbias-fight-against-cancer)

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***Qiagen Discovery Webinar 8:***

**Title:** Data Curation and AI/Machine Learning in Drug Discovery Informatics Workflows

**Body:** In this on-demand GenomeWeb Virtual Roundtable sponsored by Qiagen, four leading experts on the use of AI and machine learning for data curation to support drug discovery informatics workflows discuss their own work, the methods they have used, and the new possibilities available to researchers in their fields.

Download it from GenomeWeb’s [Webinar Library.](http://www.genomeweb.com/events/virtual-roundtable-data-curation-and-aimachine-learning-drug-discovery-informatics-workflows)