Andreas Venizelos

Field Applications Scientist
Oxford Nanopore Technologies
Copenhagen, Denmark

13 August 1988

Else Alfelts Vej 34B, 2300, Copenhagen, Denmark

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andreas.venizelos@yahoo.com

Social Network

https://linkedin.com/in/dr-andreas-venizelos-297802ab

Languages

- Greek *mother tongue*
- English
- German
- Nowegian Bokmål

IT skills

- Programming languages: Perl, Python, R, R markdown
- Operating Systems: MS Windows, Linux, MacOS
- Bioinformatics Applications: Bioconductor, Biopython, BLAST, GALAXY, Genome Browsers (e.g. UCSC, HGMD), Alamut, Picard, Samtools, Bedtools, Bcftools, gatk, IGV, FastQC, MultiQC, Guppy, Dorado, Remora, WhatsHap, Clair3, Sniffles2, Adaptive Sampling
- General IT applications: MS Office, Adobe Suite, MS Visual Studio, Docker, Epi2ME Labs, Epi2ME Agent, Nextflow

Areas of Expertise

Bioinformatics and Systems biology
Clonal evolution analysis
Next generation sequencing data analysis
Structural Bioinformatics
Machine Learning Applications
Gene Regulatory pattern analysis
Gene Ontology

Working Experience

2022 – Present **Field Application Scientist** Oxford Nanopore, Copenhagen, Denmark

- Managing key customer relationships from a technical perspective to ensure success using Oxford Nanopore Tehnologies products
- Providing training to customers on product usage and maintenance
- Providing frontline technical support to customers on a variety of application-related work like set-up, optimisation, workflow implementation and validation, data analysis etc, with interactions with the Technical Services and Customer Solutions Teams
- Establishing a plan to visit and/or communicating with each assigned customer on a frequency matching the customer's needs and support requirements,and ONT's business priorities
- Providing high quality, effective technical expertise to customers and prospective customers in both the pre and post sales stages to support sales order and utilization/revenue growth.
- Assisting the sales team with pre-sales technical activities like on-site product presentations and demonstrations
- Providing technical consultations on products and related applications as part of the sales cycle
- Participating in the organisation and running of seminars, exhibitions and similar "on-site" activities at key accounts and congresses in the relevant territories
- Monitoring the competition and market development, and report findings back to internal teams like Applications and Product Management

2021 – 2022 **Postdoctoral Researcher** Mohn Research Laboratory, Bergen, Norway

- Analysis and interpretation of WGS, WES and panel sequencing NGS data.
- Investigating genomic alterations and subclonal evolution dynamics in breast cancer tumours during neoadjuvant chemotherapy.
- Identifying the molecular mechanisms underlying the development of high-grade gastroenteropancreatic neuroendocrine carcinomas (NEC).
- Assessing the potential role of early epigenetic alterations as an underlying cause of NEC.
- Consulting services for Roche Norway AS (lecture).
- Representative of K.G. Jebsen Academy for Genome-Directed Therapy in Cancer.

2016 – 2021 **Researcher** Mohn Research Laboratory, Bergen, Norway

- Performing genome assembly and annotation.
- Developing reproducible bioinformatic pipelines for next generation cancer sequencing efforts, including targeted capture assays, WES, RNA-seq.
- Validating bioinformatic tools and clustering algorithms for clonal evolution analysis using public and in-house samples from our clinical trials.
- Analyzing in-house genomics/transcriptomics data from patient-derived tumor cells, and developing interactive data visualizations.
- Performing assays, PCR, QC, DNA extraction, and other molecular biology techniques.
- Preparing DNA libraries for NGS and executing sequencing runs on Illumina Sequencers.
- Consulting services for Cepton Strategies, Paris, France (1h via phone).
- Committee member for the *Research School of Clinical Medicine* Tasks assigned: Meetings arrangement, reviewing all relevant material before committee meetings, generating abstract books-timetables for poster-oral presentations, preparing the monthly agenda, contacting individuals, approving reports of committee meetings before their distribution.

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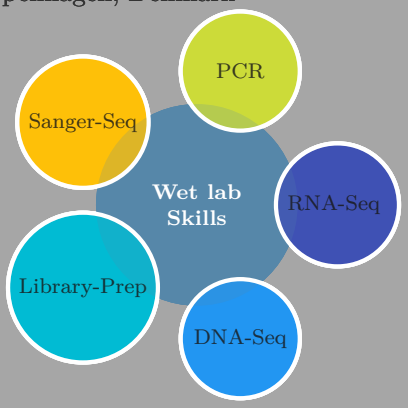

Lab skills

- Hands on library preparation for NGS platforms (WGS, WES, Gene/Custom Panels, RNA)
-Sequencing on Oxford Nanopore platforms (MinION MK1B, MinION MK1C, GridION, PromethION, P2 Solo)
- Sequencing on Illumina platforms (MiSeq, NextSeq500, HiSeq 2000/2500, NovaSeq)
- Sequencing on Ion Torrent platforms (Ion-PGM, Ion-Proton, Ion-Chef)
- DNA/RNA extraction; Blood, Snap-Frozen Tissue, Formalin Fixed Paraffin Embedded (FFPE)
- Covaris Sonication (M220)
- DNA quantification (QuantoFluor, Qubit)
- Quantitative PCR, Long-range PCR
- Sizing, quantitation, purity assessment of DNA using Bio-analyzer 2100 Agilent and TapeStation
- Sanger Sequencing

Working Experience

2013 – 2016 **Senior Medical Technologist** Centogene A.G., Rostock,Berlin, Germany

- Expertise in next generation sequencing (Roche 454, Ion Torrent, Illumina), Sanger sequencing, PCR, Real-Time PCR, MLPA, MS-MLPA, nucleic acid extraction, cell cultures, excellent knowledge of sequencing analysis softwares (Seq Pilot, Mutation Surveyor), different databases and genetic tools (Alamut, HGMD, OMIM).
- Technical validation of raw data obtained from different techniques as above.
- Supervision of a team of 7 technicians, mentored and trained team members via technical presentations, demonstrations, troubleshooting technical issues.
- Active participation in the preparation of the laboratory for CAP and ISO-13485 inspections.

Tasks assigned: writing of SOP and validation files, engagement and participation in different committees (metrology, telemetry).

2012 – 2013 **Medical Technologist** 401 Military Hospital of Athens, Greece

- Expertise in Sanger sequencing, high-throughput SNP genotyping, nucleic acid extraction; developed protocols for the screening of new genes.
- Responsible for the accurate orientation of samples to external laboratories, contact person of the laboratory for all genetic tests.

Education

Postgraduate Training

2016 – 2021 **Ph.D. in Cancer Genomics** University of Bergen, Norway
Title dissertation: Mutational characterization of cancers; Studies of Breast Cancers under Chemotherapy and Neuroendocrine Carcinomas
Opponents: Dr. Kristine Misund, Dr. Thomas Berg, Dr. Agnete Engelsen

2011 – 2012 **M.Sc. in Molecular Virology** University of Ioannina, Greece

- Molecular characterization of viruses via genotyping, training in nucleic acid extraction, PCR, RT-PCR, gel electrophoresis, Sanger sequencing, cloning.
- Training in sequencing analysis softwares (SeqPilot, Mutation Surveyor), different databases and genetic tools (OMIM, Blast, UCSC Genome Browser).
- Mentored and trained undergraduate students.

GPA: 10/10
Title dissertation: G20 gene molecular characterization of cyanophages
Opponents: Prof. Theoni Trangas, Prof. Evangelos Briasoulis

2007 – 2011 **B.Sc. in Biological Applications and Technology** University of Ioannina, Greece
GPA: 7.32/10

Publications

2023 **Venizelos A.**, Elvebakken H., Perren A., et al: *Germline pathogenic mutations in patients with gastroenteropancreatic neuroendocrine carcinoma.* Endocrine-Related Cancer, 2023 August;30(10)

2023 Knappskog S., Grob T.,**Venizelos A.** Amstutz U., et al: *Mutation Spectrum in Liquid Versus Solid Biopsies From Patients With Advanced Gastroenteropancreatic Neuroendocrine Carcinoma.* JCO Precision Oncology, 2023 Feb;8(7)

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2022 **Venizelos A.**, Engebrethsen C., Deng W., Geisler J., Geisler S., Iversen G.T., Aas T., Aase H.S., Seyedzadeh M., Steinskog E.S., Myklebost O., Nakken S., Vodak D., Hovig E., Meza-Zepeda L.A., Lønning P.E., Knappskog S., Eikesdal H.P.: *Clonal evolution in primary breast cancers under sequential epirubicin and docetaxel monotherapy.* Genome Medicine, 2022 Aug;14-86

2021 **Venizelos, A.**, Elvebakken, H., Perren, A., Nikolaienko, O., Deng, W., Lothe, I.M.B., Hjortland, G.O., Sundlöv, A., Svensson, J., Garresori, H., Kersten, C., Hofsli, E., Detlefsen, S., Krogh, M., Sorbye, H., Knappskog, S.: *The molecular characteristics of high-grade gastroenteropancreatic neuroendocrine neoplasms.* Endocrine-Related Cancer, 2021 Nov;29(1):1-14

2021 H P Eikesdal, S Yndestad, A Elzawahry, A Llop-Guevara, B Gilje, E S Blix, H Espelid, S Lundgren, J Geisler, G Vagstad, **A Venizelos**, L Minsaas et al.: *Olaparib monotherapy as primary treatment in unselected triple negative breast cancer.* Ann Oncol. 2021 Feb;32(2):240-249.

Oral presentations at national/international congress

2022 Knappskog, S., Grob, T., **Venizelos, A.**, Amstutz, U., Hjortland, G.O.„ Lothe, I.M.B., Kersten, C., Hofsli, E., Sundlöv, A., Elvebakken, H., Garresori,H., Couvelard,A., Svensson, J., Sorbye, H., Perren,A. *title: Mutation spectrum in liquid versus solid biopsies from advanced digestive neuroendocrine carcinoma patients* **ESMO Congress 2022, Paris, France**

2021 **Venizelos, A.**, Engebrethsen, C., Deng, W., Geisler, J., Geisler, S., Iversen, G.T., Aas, T., Aase, H.S., Seyedzadeh M., Steinskog E.S., Myklebost O., Nakken S., Vodak D., Hovig E., et al. *title: Clonal evolution of breast cancer during neoadjuvant chemotherapy* **Onkologisk Forum 2021, Oslo, Norway**

2021 Sorbye, H.,**Venizelos, A.**, Elvebakken, H., Perren, A., Nikolaienko, O., Deng, W., Lothe, I.M.B., Hjortland, G.O., Sundlöv, A., Svensson, J., Garresori, H., Kersten, C., Hofsli, E., Detlefsen, S., Krogh, M., Knappskog, S.*title: Molecular characteristics of high-grade gastroenteropancreatic neuroendocrine neoplasms* **ESMO Congress 2021, Paris, France**

2020 **Venizelos, A.**, Elvebakken, H., Perren, A., Nikolaienko, O., Deng, W., Lothe, I.M.B., Hjortland, G.O., Sundlöv, A., Svensson, J., Garresori, H., Kersten, C., Hofsli, E., Detlefsen, S., Krogh, M., Sorbye, H., Knappskog, S.*title: Mutational landscape of 109 high-grade gastroenteropancreatic neuroendocrine neoplasms G3* **17th Annual ENETS Conference, Barcelona, Spain**

Posters at national/international congress

2022 **Venizelos, A.**, Engebrethsen, C., Deng, W., Geisler, J., Geisler, S., Aas, T., Aase, H., Seyedzadeh, M., Steinskog, E.S., Myklebost, O, Nakken, S., Vodak, D., Hovig, E., Meza-Zepeda, L.A., Lønning, P.E., Knappskog, S.*, Eikesdal, H.P.* *title: Clonal evolution in primary breast cancers under sequential epirubicin and docetaxel monotherapy* **Bioinformatics in Bergen, Solstrand, Bergen, Norway**

2019 **Venizelos, A.**, Clausen, C., Deng, W., Geisler, J., Geisler, S., Aas, T., Aase, H., Seyedzadeh, M., Steinskog, E.S., Myklebost, O, Nakken, S., Vodak, D., Hovig, E., Meza-Zepeda, L.A., Lønning, P.E., Knappskog, S.*, Eikesdal, H.P.* *title: Whole exome sequencing (WES) of locally advanced breast cancers treated with monotherapy* **AACR Annual Meeting 2019, Atlanta, USA**

2019 **Venizelos, A.**,Clausen, C., Knappskog, S., Eikesdal, HP. and Lønning PE. *title: Genetic alterations affecting treatment response in locally advanced breast cancers* **7th CCBIO Annual Symposium, Solstrand, Bergen, Norway**

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Awards

2023 Society For Endocrinology (SFE); Journal Award Winner for excellence in endocrine research and practice; *title: The molecular characteristics of high-grade gastroenteropancreatic neuroendocrine neoplasms*
SfE BES 2023, Glasgow, Scotland

2020 ENETS; Top 3 oral presentation; highlights selection; *title: Mutational landscape of 109 high-grade gastroenteropancreatic neuroendocrine neoplasms G3*
17th Annual ENETS Conference, Barcelona, Spain

Personal

Inerests	Crossfit, Hiking, Skiing
Others	Full, Clean driving licence
References	Available upon request