



Andreas Venizelos

Postdoctoral Researcher in Cancer Genomics

K.G.Jebesen Center for Genome Directed Cancer Therapy

Dept. of Clinical Science

University of Bergen, Bergen, Norway

13 August 1988

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Social Network

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

Languages

🇬🇷 Greek <i>mother tongue</i>	● ● ● ● ●
🇺🇸 English	● ● ● ● ●
🇩🇪 German	● ● ● ● ●
🇳🇴 Norwegian Bokmål	● ● ● ● ●

IT skills

- Programming language: 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
- General IT applications: MS Office, Adobe Suite, MS Visual Studio, Docker

Areas of Expertise

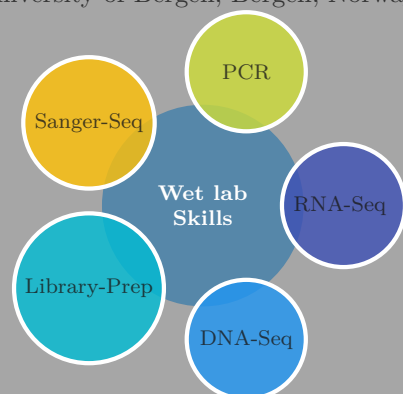
- Bioinformatics and Systems biology
- Clonal evolution analysis
- Next generation sequencing data analysis
- Structural Bioinformatics
- Machine Learning Applications
- Gene Regulatory pattern analysis
- Gene Ontology

Working Experience

- 2021-Present **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
 - Identifying the molecular mechanisms underlying development of high-grade gastroenteropancreatic neuroendocrine carcinomas (NEC).
 - Assessing the potential role of early epigenetic alterations as an underlying cause of NEC.
- 2016-2021 **Researcher** Mohn Research Laboratory, Bergen, Norway
- Performing genome assembly and annotation.
 - Developing reproducible bioinformatic pipelines for NGS cancer sequencing efforts, including targeted capture assays, WES, RNA-seq.
 - Validating bioinformatic tools and algorithms using public and in-house samples for clonal evolution analysis.
 - 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.
 - 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, approve reports of committee meetings before their distribution
- 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.

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Lab skills

- Hands on library preparation for NGS platforms (WGS, WES, Gene/Custom Panels)
- 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 Bioanalyzer 2100 Agilent and TapeStation
- Sanger Sequencing

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
- 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

- 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.
- 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., Hofslie, E., Detlefsen, S., Krogh, M., Sorbye, H., Knappskog, S.: *The molecular characteristics of high-grade gastroenteropancreatic neuroendocrine neoplasms* (Endocrine Related Cancer, 2021 Nov;32)

Oral presentations at international congress

- 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., Hofslie, 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., Hofslie, 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 international congress

- 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

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

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