Andreas Venizelos

Postdoctoral Researcher in Cancer Genomics
K.G.Jebsen 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 *mother tongue*
- English
- German
- Nowegian 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)
- Sequencning 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
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

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., Hofsli, 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., 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 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

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