



# 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 ● ● ● ● ●
- 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.
  - 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 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 | <b>Ph.D.in Cancer Genomics</b><br><b>Title dissertation:</b> Mutational characterization of cancers; Studies of Breast Cancers under Chemotherapy and Neuroendocrine Carcinomas<br><b>Opponents:</b> Dr. Kristine Misund, Dr. Thomas Berg, Dr. Agnete Engelsen   | University of Bergen, Norway   |
| 2011 – 2012 | <b>M.Sc. in Molecular Virology</b><br>• Molecular characterization of viruses via genotyping, training in nucleic acid extraction, PCR, RT-PCR, gel electrophoresis, Sanger sequencing, cloning.<br>• Training in sequencing analysis softwares (SeqPilot, Mutation Surveyor), different databases and genetic tools (OMIM, Blast, UCSC Genome Browser).<br>• Mentored and trained undergraduate students.<br><b>GPA:</b> 10/10<br><b>Title dissertation:</b> G20 gene molecular characterization of cyanophages<br><b>Opponents:</b> Prof. Theoni Trangas, Prof. Evangelos Briasoulis | University of Ioannina, Greece |
| 2007 – 2011 | <b>B.Sc. in Biological Applications and Technology</b><br><b>GPA:</b> 7.32/10  | University of Ioannina, Greece |

## Publications

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|------|---|
| 2021 | <b>Venizelos, A.</b> , Elvebakken, H., Perren, A., Nikolaienko, O., Deng, W., Lothe, I.M.B., Hjortland, G.O., Sundlöv, A., Svensson, J., Garresori, H., Kersten, C., Hofslis, E., Detlefsen, S., Krogh, M., Sorbye, H., Knappskog, S.: <i>The molecular characteristics of high-grade gastroenteropancreatic neuroendocrine neoplasms</i> 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, <b>A Venizelos</b> , L Minsaas et al: <i>Olaparib monotherapy as primary treatment in unselected triple negative breast cancer</i> . Ann Oncol. 2021 Feb;32(2):240-249.  |

## Oral presentations at international congress

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|------|--|
| 2021 | Sorbye, H., <b>Venizelos, A.</b> , Elvebakken, H., Perren, A., Nikolaienko, O., Deng, W., Lothe, I.M.B., Hjortland, G.O., Sundlöv, A., Svensson, J., Garresori, H., Kersten, C., Hofslis, E., Detlefsen, S., Krogh, M., Knappskog, S. <i>title: Molecular characteristics of high-grade gastroenteropancreatic neuroendocrine neoplasms</i><br><b>ESMO Congress 2021, Paris, France</b>                |
| 2020 | <b>Venizelos, A.</b> , Elvebakken, H., Perren, A., Nikolaienko, O., Deng, W., Lothe, I.M.B., Hjortland, G.O., Sundlöv, A., Svensson, J., Garresori, H., Kersten, C., Hofslis, E., Detlefsen, S., Krogh, M., Sorbye, H., Knappskog, S. <i>title: Mutational landscape of 109 high-grade gastroenteropancreatic neuroendocrine neoplasms G3</i><br><b>17th Annual ENETS Conference, Barcelona, Spain</b> |

## Posters at international congress

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|------|---|
| 2019 | <b>Venizelos, A.</b> , 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.* <i>title: Whole exome sequencing (WES) of locally advanced breast cancers treated with monotherapy</i><br><b>AACR Annual Meeting 2019, Atlanta, USA</b> |
| 2019 | <b>Venizelos, A.</b> , Clausen, C., Knappskog, S., Eikesdal, HP. and Lønning PE. <i>title: Genetic alterations affecting treatment response in locally advanced breast cancers</i><br><b>7th CCBIO Annual Symposium, Solstrand, Bergen, Norway</b>  |

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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