



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
- Eikåsen 1, 5231, Paradis, Bergen, Norway
- +47-409-79-851
- dauidven
- 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
- 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 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.
- 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.

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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 Bio-analyzer 2100 Agilent and TapeStation
- Sanger Sequencing

Education

Postgraduate Training

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|-------------|--|--------------------------------|
| 2016 – 2021 | Ph.D. in Cancer Genomics
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 | University of Bergen, Norway |
| 2011 – 2012 | M.Sc. in Molecular Virology
• 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 | University of Ioannina, Greece |
| 2007 – 2011 | B.Sc. in Biological Applications and Technology
GPA: 7.32/10 | University of Ioannina, Greece |

Publications

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| 2022 | Venizelos A. , Engebretsen 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.: <i>Clonal evolution in primary breast cancers under sequential epirubicin and docetaxel monotherapy</i> . 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., Hofslie, 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, A Venizelos , 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., 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. <i>title: Molecular characteristics of high-grade gastroenteropancreatic neuroendocrine neoplasms</i> 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. <i>title: Mutational landscape of 109 high-grade gastroenteropancreatic neuroendocrine neoplasms</i> G317th Annual ENETS Conference, Barcelona, Spain |

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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

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