

Anastasios Gkoutakos PhD

Biochemist-Biotechnologist

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Anastasios Gkoutakos

Curriculum Vitae

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Professional Summary

I am currently a postdoctoral researcher at the Department of Diagnostics and Public Health of University of Verona, Italy. My research is focused on the generation and interpretation of multi-omics data and their coupling with functional preclinical experiments towards the identification of predictive biomarkers of drug sensitivity in solid tumors and mostly in pancreatobiliary and lung cancer.

Education

PhD, Molecular Oncology	University of Verona, Italy	2020	Tutor: Prof. Aldo Scarpa
MSc, Molecular Basis of Human Disease	University of Crete, Greece	2015	Tutor: Prof. Dimitris Mavroudis
BSc, Biochemistry-Biotechnology	University of Thessaly, Greece	2012	Tutor: Prof. George Skavdis

Experience

Oct 2019-Present	Postdoctoral Researcher Next-generation sequencing of solid tumors for diagnostic and research purposes	Department of Diagnostics and Public Health
Oct 2016-Oct 2019	PhD student Identification and targeting of druggable genomic alterations in Squamous Cell Lung Cancer	Department of Diagnostics and Public Health
Sept 2015-Mar 2016	Erasmus+ Fellow Pharmacological perturbation of candidate druggable targets in <i>in vitro</i> models of liver and lung cancer	Catalan Institute of Oncology/Pangaea Biotech
Sept 2013-Sept 2015	MSc student Detection of <i>KRAS</i> mutations by PNA-based qPCR in plasma cell-free DNA of patients with colorectal cancer	Laboratory of Translational Oncology

Skills

Laboratory techniques

- > **Cell cultures:** 2D and 3D (organoids) maintenance and cryopreservation, drug and genetic perturbation (shRNA, siRNA), cell viability assays
- > **NGS-based DNA sequencing (Illumina):** NGS libraries preparation (Agilent, 4bases) and data analysis
- > **Biobanking:** Urine and blood samples handling (Serum/Plasma/PBMCs/Buffy coat isolation)
- > **Nucleid Acid isolation:** DNA/RNA extraction from Fresh/Frozen/FFPE tissue, cell lines
- > **Liquid biopsy:** Cell-free DNA purification from serum and plasma, circulating tumor cells detection and enumeration method (CellSearch)
- > **Other:** Endpoint PCR, real-time qPCR, PNA-based real-time qPCR, Western Blot, ELISA, FISH, DNA cloning

(Bio)informatics and computational biology

- > **Programming languages:** R (basic)
- > **R** for statistics, bioinformatics, data visualization (basic)
- > **Integrative Genomic viewer** for NGS data analysis
- > **Data mining** from public *-omics* database (TCGA, ICGC, CCLE, DepMap)
- > **Statistics:** GraphPad Prism, IBM SPSS
- > **Microsoft office:** Word, Excel, Powerpoint

Languages

- > Greek (Native)
- > English (C1)
- > Italian (C1)
- > German (A2)

Soft skills

- > I am capable of working in team, and I have always enjoyed multicultural environments
- > I care and enjoy the coordination of other team members as well as the training, integration and supervision of the thesis work and internship of various BSc and MSc students
- > I set goals, apply innovative approach to problem solving and take the initiative
- > I prioritize effectively and I meet objectives within pre-determined deadlines
- > I demonstrate excellent attention to detail and accuracy

Honors & Awards

- > **Fondazione IRCCS-Istituto Nazionale dei Tumori (INT) di Milano**
Research fellowship "Progetto Call Eranet PMTR-pNET"
- > **University of Verona, School of Life and Health Sciences**
PhD fellowship in the program "Inflammation, Immunity and Cancer"

Journals Reviewed For

- > *Scientific Reports*
- > *Cancers*
- > *Critical Reviews in Oncology/Hematology*
- > *Molecular Cancer*

Publications > 20, h-index: 8, Selected peer-reviewed publications:

1. **Gkoutakos A.** et al. "Extrahepatic Distal Cholangiocarcinoma vs. Pancreatic Ductal Adenocarcinoma: Histology and Molecular Profiling for Differential Diagnosis and Treatment". *Cancers*. 2023 Feb 24;15(5):1454.
2. **Gkoutakos A.** et al. "Genomic characterization of undifferentiated sarcomatoid carcinoma of the pancreas". *Human Pathology*. 2022, Vol.128: 124-133.
3. **Gkoutakos A.** et al. "Identification of Targetable Liabilities in the Dynamic Metabolic Profile of EGFR-mutant Lung Adenocarcinoma: Thinking beyond Genomics for Overcoming EGFR TKI Resistance". *Biomedicines*. 2022, 10(2), 277.
4. **Gkoutakos A.** et al. "Undifferentiated Sarcomatoid Carcinoma of the Pancreas: From Histology and Molecular Pathology to Precision Oncology". *Int. J. Mol. Sci.* 2022, 23(3), 1283.
5. **Gkoutakos A.** et al. "Harnessing the epigenome to boost immunotherapy response in NSCLC patients". *Therapeutic Advances in Medical Oncology*. 2021, Vol. 13: 1-13.
6. **Gkoutakos A.** et al. "PTEN in Lung Cancer: Dealing with the Problem, Building on New Knowledge and Turning the Game Around". *Cancers (Basel)*. 2019 Aug 9;11(8).
7. **Gkoutakos A.** et al. "Unmasking the impact of Rictor in cancer: novel insights of mTORC2 complex". *Carcinogenesis*. 2018 Jul 30;39(8): 971-980.

Google Scholar Profile

<https://scholar.google.it/citations?hl=it&user=sWBax98AAAAJ>