



Evi Lianidou



Title: Professor of Analytical Chemistry - Clinical Chemistry
Sector: Analytical, Physical and Theoretical Chemistry (Sector I)
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Academic Qualifications:

- Post-doctoral research Fellow (1990), Clinical Biochemistry Dept., Mount Sinai Hospital, University of Toronto, Canada
- Ph.D. in Chemistry (1988), Chemistry Dept., University of Athens (UoA)
- B.Sc. in Chemistry (1983), Chemistry Dept., UoA

Appointments:

- 2011: Professor, Chemistry Dept., UoA
- 2004-2011: Associate Professor, Chemistry Dept., UoA
- 1997-2004: Assistant Professor, Chemistry Dept., UoA
- 1996-1997: Postdoctoral Research Fellow, Department of Pathology and Clinical Biochemistry, Mount Sinai Hospital, University of Toronto, Canada
- 1990-1996: Lecturer, Chemistry Dept., UoA
- 1989-1990: Postdoctoral Research Fellow, Department of Clinical Biochemistry, Toronto Hospital, University of Toronto, Canada

Teaching Activities: (current)

Undergraduate courses

- Clinical Chemistry (Department of Chemistry, Department of Pharmacy)
- Analytical Chemistry, (Department of Biology)

Completed: >75 Diploma Theses

Postgraduate courses

- Molecular Diagnostics
- Clinical Chemistry
- Novel Technologies in the biomedical laboratory

Completed: 50 M.Sc. theses, 16 Ph.D. theses

Coordination and teaching at the M.Sc. program: "Clinical Chemistry", at the Department of Chemistry, University of Athens / Website: <http://en.clinical-chemistry.chem.uoa.gr/>

Research Interests/Activities: (last 10 years)

- Development of Companion Diagnostic assays in the field of Liquid biopsy
- Development of single-plex and multiplex quantitative RT-qPCR assays for the detection and molecular characterization of CTCs
- Development and clinical evaluation of multiplex assays for gene expression in CTCs based on the liquid bead array (Luminex system).
- Development and clinical evaluation of DNA methylation assays in CTCs and ctDNA
- Development and clinical evaluation of highly sensitive assays for mutation analysis in CTCs and in ctDNA,

- Evaluation of circulating miRNAs as tumor biomarkers in plasma

Scientific Publications/Citations:

- > 154 publications in refereed journals
- 6 invited book chapters in collective volumes
- > 8.309 citations (H-index >52)
- 112 i10-index

Top five publications

- Zavidou M, Strati A, Bournakis E, Smilkou S, Tserpeli V, Lianidou E., Prognostic Significance of Gene Expression and DNA Methylation Markers in Circulating Tumor Cells and Paired Plasma Derived Exosomes in Metastatic Castration Resistant Prostate Cancer. *Cancers (Basel)*. 2021 Feb 13;13(4):780. doi: 10.3390/cancers13040780. PMID: 33668490; PMCID: PMC7918693.
- Ntzifa A, Kotsakis A, Georgoulas V, Lianidou E. Detection of EGFR Mutations in Plasma cfDNA and Paired CTCs of NSCLC Patients before and after Osimertinib Therapy Using Crystal Digital PCR. *Cancers (Basel)*. 2021 May 31;13(11):2736. doi: 10.3390/cancers13112736. PMID: 34073111; PMCID: PMC8197887.
- Strati A, Zavidou M, Economopoulou P, Gkolfinopoulos S, Psyrris A, Lianidou E. Development and Analytical Validation of a Reverse Transcription Droplet Digital PCR (RT-ddPCR) Assay for PD-L1 Transcripts in Circulating Tumor Cells. *Clin Chem*. 2021 Mar 31;67(4):642-652. doi: 10.1093/clinchem/hvaa321. PMID: 33421061.
- Zavidou M, Mastoraki S, Strati A, Tzanikou E, Chimonidou M, Lianidou E. Evaluation of Preanalytical Conditions and Implementation of Quality Control Steps for Reliable Gene Expression and DNA Methylation Analyses in Liquid Biopsies. *Clin Chem*. 2018 Oct;64(10):1522-1533. doi: 10.1373/clinchem.2018.292318. Epub 2018 Jul 17. PMID: 30018056.
- Mastoraki S, Strati A, Tzanikou E, Chimonidou M, Politaki E, Voutsina A, Psyrris A, Georgoulas V, Lianidou E. *ESR1* Methylation: A Liquid Biopsy-Based Epigenetic Assay for the Follow-up of Patients with Metastatic Breast Cancer Receiving Endocrine Treatment. *Clin Cancer Res*. 2018 Mar 15;24(6):1500-1510. doi: 10.1158/1078-0432.CCR-17-1181. Epub 2017 Dec 28. PMID: 29284708.

Selected Distinctions:

- Organizer of 5 International ACTC Meetings on liquid biopsy and IFCC Workshops on Molecular Diagnostics
- Coordinator and Partner of 9 EU Funded Projects - All on liquid biopsy