PERSONAL INFORMATION

# Evi Lianidou



Chairman, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece
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lianidou@chem.uoa.gr, evilianidou@gmail.com

Sex female | Date of birth 22/12/1960 | Nationality Greek

INSTRUCTOR IN THE Joint M.Sc. in Advanced Applied Organic Chemistry: Synthesis and Analysis of Pharmaceutically Relevant Compounds (MAAOC)

## WORK EXPERIENCE

**2011 – present**

Professor of Analytical Chemistry and Clinical Chemistry, Department of Chemistry, National & Kapodistrian University of Athens, Athens, Greece

- Teaching and research on Analytical Chemistry, Clinical Chemistry and Molecular Diagnostics
- Supervision of undergraduate, postgraduate and post-doctoral researchers
- Development and coordination of academic and research activities•

**2004-2011**

Business or sector Higher Education and Research

Assoc. Professor of Clinical Analysis, Department of Chemistry, National & Kapodistrian University of Athens, Athens, Greece

- Teaching and research in Analytical Chemistry, Clinical Chemistry and Molecular Diagnostics
- Supervision of undergraduate, postgraduate and post-doctoral researchers
- Development and coordination of academic and research activities

**1997-2004**

Business or sector Higher Education and Research

Assistant Professor, Department of Chemistry, National & Kapodistrian University of Athens, Athens, Greece

- Teaching and research in Analytical Chemistry, Clinical Chemistry and Molecular Diagnostics
- Supervision of undergraduate, postgraduate and post-doctoral researchers
- Development and coordination of academic and research activities

**1996-1997**

Business or sector Higher Education and Research

Postdoctoral Research Fellow, Department of Pathology and Clinical Biochemistry, Mount Sinai Hospital, University of Toronto, Canada

- Research activities

**1990-1996**

Business or sector Research

Lecturer, Department of Chemistry, National & Kapodistrian University of Athens, Athens, Greece

- Teaching and research in Analytical Chemistry, and Clinical Chemistry
- Supervision of undergraduate students
- Development and coordination of academic and research activities

**1989-1990**

Business or sector Research

Postdoctoral Research Fellow, Department of Clinical Biochemistry, Toronto Hospital, University of Toronto, Canada

- Research activities

Business or sector Research

## POSITIONS

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|---|---|
| **2022 - present** | Chairman, Department of Chemistry, University of Athens, Greece |
| **2017 – present** | President elect, Hellenic Society of Liquid Biopsy |
| **2017-2026** | Elected Board Member, European Association for Cancer Research: https://www.eacr.org/governance/board |
| **2020 – present** | Coordinator of CTC technologies group (together with Prof. N. Stoecklein, Univ of Dusseldorf, Germany), European Liquid Biopsy Society (ELBS): https://www.uke.de/english/departments-institutes/institutes/tumor-biology/european-liquid-biopsy-society-elbs/news/index.html |
| **2009-2019** | International Federation of Clinical Chemistry (IFCC):<br><br>Elected member and Chair of the Committee for Clinical Molecular Biology Curriculum (http://www.ifcc.org/ifcc-education-division/emd-committees/c-cmbc/) |
| **2020-2023** | Elected member of the IFCC Committee on Task Force on Global Lab Quality (TF-GLQ), (https://www.ifcc.org/executive-board-and-council/eb-task-forces/task-force-on-global-lab-quality/). |

## Organizer of International meetings on liquid biopsy

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|---|---|
| **2025** | 7th ACTC meeting, Thessaloniki, Greece, "Liquid Biopsy: From bench to Bedside", www.actc2025.org |
| **2023** | 6th ACTC meeting, Skiathos, Greece<br>"Liquid Biopsy and Precision Oncology: Where do we stand now",<br>(*https://www.erasmus.gr/microsites/1261*) |
| **2021** | 5th ACTC meeting, Kalamata, Greece<br>"Liquid Biopsy in its best", (*https://www.erasmus.gr/microsites/1206*) |
| **2019** | 4th ACTC meeting, Corfu Greece<br>"Liquid Biopsy: Latest Advances and Future Challenges",<br>(*http://actc2019.chem.uoa.gr/actc2019.org/index.html*) |
| **2017** | 3rd ACTC meeting, Rhodes, Greece<br>"Liquid biopsy in clinical practice", (*http://actc2017.chem.uoa.gr/actc2017.org/index.html*) |
| **2014** | 2nd ACTC meeting, "From Basic Research to Clinical Practice" Crete, Greece,<br>(*http://actc2014.chem.uoa.gr/www.actc2014.org/index.html*) |
| **2012** | 1st ACTC meeting, Athens, Greece, "Advances in Circulating Tumor Cells: From basic research to clinical practice", (*http://actc2012.chem.uoa.gr/actc2012.org.144-76-185-131.winzone45.grserver.gr/index.html*) |
| **2009** | 7th International Symposium on Minimal Residual Disease, Athens, Greece, (co-organization with Prof K. Pantel) |

## Organizer of Greek meetings on liquid biopsy

| | |
|---|---|
| **2024** | 3rd Hellenic Society of Liquid Biopsy, Hybrid conference, Athens, 4-10-24,<br>(***https://hsliquidbiopsy.wixsite.com/2021/2024conf***) |
| **2024** | Summer School on Liquid Biopsy Technologies and applications, Athens, Sep 30 – October 04, 2024,<br>(***https://hsliquidbiopsy.wixsite.com/2021***) |
| **2023** | 2nd Hellenic Society of Liquid Biopsy, Hybrid conference, Athens "LIQUID BIOPSY: Latest advances, potentials and future perspectives in oncology", Friday, January 27th, 2023,<br>(*http://www.chem.uoa.gr/wp-content/uploads/announcements/2022-23/Final-%CE%97%CE%BC%CE%B5%CF%81%CE%AF%CE%B4%CE%B1-program-23-1-23.pdf*) |
| **2022** | Webinar: Liquid Biopsy in the clinical setting, Webinar<br>(Hellenic Society of Liquid Biopsy), (*https://www.erasmus.gr/microsites/1243*) |
| **2019** | 1st Hellenic Society of Liquid Biopsy conference, Athens: "Liquid Biopsy: Latest advances and potential in clinical oncology", 25th May 2019 |

(Hellenic Society of Liquid Biopsy), (*https://scep.gr/events/event/hmerida-ygri-biopsia/)*

## EDUCATION AND TRAINING

**1983-1988**

### Ph.D. in Chemistry

Department of Chemistry, National & Kapodistrian University of Athens, Athens, Greece

- Thesis title: Development and clinical applications of novel methods for the analysis of bile acids in human serum and urine
- Advisor: Prof. P. A. Siskos
- Principal subjects: fluorescence, enzymatic analysis

**1978-1983**

### B.Sc. in Chemistry

Department of Chemistry, National & Kapodistrian University of Athens, Athens, Greece

## PERSONAL SKILLS

**Communication skills**

- Excellent scientific communication skills developed through university teaching, invited lectures, conference presentations, peer-reviewed publications, and international collaborations
- Strong mentoring and supervision skills developed through guidance of post-doctoral fellows, Ph.D. students, M.Sc. students, and undergraduate students

**Organisational / managerial skills**

- Leadership and project-management skills developed as project leader and scientific coordinator in national and international research projects
- Supervisory experience including 5 post-doctoral fellows, 21 Ph.D. students, and 58 M.Sc. students

**Research interests**

- My lab (http://en.actc-lab.chem.uoa.gr) is specializing since 1998 in Liquid Biopsy analysis, and especially on Circulating Tumor Cells (CTCs), ctDNA, exosomes and circulating miRNAs. My lab has access to many patient samples through extensive clinical collaborations, in Greece and in many European countries.

- My main research interests are especially on the following areas:
- Evaluation of tumor biomarkers in liquid biopsy (CTCs, ctDNA and extracellular vesicles)
- Evaluation of epigenetic alterations as promising tumor biomarkers in liquid biopsy
- Development of single-plex and multiplex RT-qPCR assays for the detection and molecular characterization of CTCs,
- Development of single-plex and multiplex RT droplet digital PCR (RT-ddPCR) assays for gene expression in CTCs
- Development of single-plex and multiplex droplet digital PCR (ddPCR) assays for mutation analysis in CTCs and ctDNA
- Development and clinical evaluation of single-plex and multiplex DNA methylation assays based on Methylation Specific PCR (MSP) and droplet digital MSP in CTCs and ctDNA
- Development and clinical evaluation of highly sensitive real time PCR assays for mutation analysis in CTCs and ctDNA,
- Evaluation of circulating miRNAs as tumor biomarkers in plasma.

**Mother tongue**

Greek

**Other language(s)**

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---|---|---|---|---|---|
| | Listening | Reading | Spoken interaction | Spoken production | |
| **English** | C2 | C2 | C2 | C2 | C2 |
| **German** | C2 | C2 | C2 | C2 | C2 |

## ADDITIONAL INFORMATION

### Publications

- Author or co-author of 206 research articles in peer-reviewed journals (https://pubmed.ncbi.nlm.nih.gov/?term=lianidou+&sort=date)
- ORCHID: https://orcid.org/0000-0002-7796-5914
- Google scholar: https://scholar.google.com/citations?user=gvx_1p0AAAAJ&hl=en

Publications include papers in high impact factor journals such as Clinical Chemistry, Analytical Chemistry, Clinical Cancer Research, Annals of Oncology, Nucleic Acids Research, Molecular Oncology, Eur J of Cancer, and many others.

Selected recent papers:

1. *Ntzifa A, Themistokli E, Strati A, Zavridou M, Tsaroucha E, Sfika A, Psyrri A, Balgouranidou I, Kotsakis A, Georgoulias V, Lianidou E. AXL-mRNA Overexpression in Size-Based Enriched Circulating Tumor Cells as a Potential Biomarker for Anti-AXL Targeted Therapies in Non-Small-Cell Lung Cancer. Cancers (Basel). 2026 May 28;18(11):1759. doi: 10.3390/cancers18111759. PMID: 42279342; PMCID: PMC13256021.*

2. *Stergiopoulou D, Markou A, Nicolo E, Serafini MS, Zhang Q, Zhang Y, Gerratana L, Davis AA, Liu H, Gradishar WJ, Reduzzi C, Cristofanilli M, Lianidou E. ESR1 methylation and ESR1 mutations in circulating tumor cells (CTCs) and paired plasma-cfDNA of advanced breast cancer patients: A feasibility proof-of-concept study. Mol Oncol. 2026 May 27. doi: 10.1002/1878-0261.70254. Epub ahead of print. PMID: 42201922.*

3. *Werner S, Tennstedt P, Pose RC, Müller C, Besler K, Schneegans S, Alawi M, Roesch MC, Peine S, Bonci D, Budna-Tukan J, Lianidou E, Alix-Panabières C, Tilki D, Pantel K. Transcriptional profiling of circulating extracellular vesicles from prebiopsy prostate cancer patients. Mol Oncol. 2026 Mar 26. doi: 10.1002/1878-0261.70244. Epub ahead of print. PMID: 41885368.*

4. *Stergiopoulou D, Smilkou S, Tzanikou E, Kaklamanis L, Georgoulias V, Koukli I, Markou A, Lianidou E. Analytical and clinical validation of a novel CE-IVD kit for PIK3CA hotspot mutations in liquid biopsy samples. J Liq Biopsy. 2026 Feb 18;11:100458. doi: 10.1016/j.jlb.2026.100458. PMID: 41756001; PMCID: PMC12933448.*

5. *Smilkou S, Ntzifa A, Tserpeli V, Balgkouranidou I, Papatheodoridi A, Razis E, Linardou H, Papadimitriou C, Psyrri A, Zagouri F, Kakolyris S, Lianidou E. Detection rate for ESR1 mutations is higher in circulating-tumor-cell-derived genomic DNA than in paired plasma cell-free DNA samples as revealed by ddPCR. Mol Oncol. 2025 Jul;19(7):2109-2119. doi: 10.1002/1878-0261.13787. Epub 2025 Jan 4. PMID: 39754401; PMCID: PMC12234389.*

## BOOKS

1. BOOK EDITOR: R.J.Cote, E. Lianidou, Editors: “Circulating Tumor Cells, Advances in Liquid Biopsy Technologies”, Springer, Current Cancer Research Series, 2nd Edition, 2023, ISBN 978-3-031-22902-2, https://doi.org/10.1007/978-3-031-22903-9.
1. Lianidou E and Hoon D. Circulating Tumor Cells and circulating Tumor DNA. In: Nader Rifai, Andea Rita Horvath and Carl Wittwer Editors. Tietz Textbook of Clinical Chemistry and Molecular Diagnostics. Sixth Edition, Elsevier, 2017, p 1111-44. https://evolve.elsevier.com/cs/product/9780323359214
2. Evi Lianidou: “Circulating Tumor Cells: A Noninvasive Liquid Biopsy in Cancer” in Molecular Testing in Cancer, Editor: G. Yousef, Springer, 2014
3. Evi Lianidou: “Circulating Tumor Cells as a real time Liquid Biopsy: Isolation and detection systems, molecular characterization and clinical applications” in “Pathobiology of Human Disease: A Dynamic Encyclopedia of Disease Mechanisms”, Editor: Richard N. Mitchell and Linda M. McManus, ELSEVIER
4. Evi Lianidou: The Role of CTCs as Tumor Biomarkers, in Advances in Cancer Biomarkers, From biochemistry to clinic for a critical revision, Editor: R. Scatena, Springer, 2015
5. Evi S. Lianidou, Athina Markou and Areti Strati: “Molecular Assays for the Detection and Molecular Characterization of CTCs” in “Circulating Tumor Cells: New Approaches, Insight into Cancer Metastasis and Impact on Patient Management”, Editor(s) name(s): Richard J. Cote and Ram Datar, Springer, Series Title: Technologies for CTC Identification, 2015
6. Cleo Parisi and Evi S. Lianidou: “Enumeration and molecular analysis of CTCs in metastatic

disease: The breast cancer model" in Liquid Biopsies in Solid Tumors, Edited by Massimo Cristofanilli, Springer, 2016

## Patents

Inventor or co-inventor on the following nternational patents:

1. Development of a quantitative real-time RT-PCR assay for CK-19 mRNA expression: circulating tumor cells in peripheral blood (CTCs), (CE, IVD test). Inventors: Lianidou E, Stathopoulou A., Mavroudis D., Georgoulias V. http://www.freepatentsonline.com/y2010/0015604.html
2. Method of determining PIK3CA mutational status in a sample. Inventors: Lianidou E, Markou A. http://www.freepatentsonline.com/WO2016020710A1.html
3. Method for the quantification of PD-L1 expression. Inventors: Lianidou E, Strati A. http://www.freepatentsonline.com/WO2017072539A1.html

## Invited Lectures - Presentations

Delivered more than 60 invited lectures at academic institutions, research centres, and international conferences in the US (Harvard, Stanford, WASHU, Florida, Chicago), Canada, Japan, Germany, Italy, Spain, Portugal, France, and many others.

## Projects / Research Grants (last 10 years)

- 2018-22: CANCER blood-scan: Liquid biopsy: Development, validation and clinical evaluation of novel molecular diagnostic assays for tumor biomarkers in peripheral blood. GSRT, ESPA, Code: T1ΕΔΚ-02935
- 2019-22: "Early Detection of Prostate Cancer by Liquid Biopsies", Grant: ERA-NET on Translational Cancer Research (TRANSCAN). Partners: K. Pantel, Univ of Hamburg, Germany (co-ordinator), E. Lianidou, Univ of Athens, Greece, C. Panabieres, University Medical Centre of Montpellier Saint-Eloi Hospital, France, Desiree Bonci, Italy, Maciej Zabel, Poland
- 2015-19: "CANCER-ID" Cancer treatment and monitoring through identification of circulating tumour cells and tumour related nucleic acids in blood, IMI: 33 partners, https://www.cancer-id.eu/partners/academic-partners/university-of-athens/
- 2013-15: "Liquid biopsy: In vivo capturing and molecular characterization of circulating tumor cells as a novel tool for improving tertiary prevention in breast cancer", GERMANY GREECE COOPERATION, Partner 1: K. Pantel, University Medical Center Hamburg-Eppendorf, Germany (the Coordinator in Germany), Partner 2: K. Lucke, GILUPI GmbH c/o Innovationszentrum Golm, R&D Company, Potsdam, Germany, Partner 3: Evi Lianidou, University of Athens, Greece (the Coordinator in Greece), Partner 4: V. Georgoulias, University of Crete, Greece
- 2012-15: Circulating Tumor Cells as Biomarker for Minimal Residual Disease in Prostate Cancer
- Grant: ERA-NET on Translational Cancer Research (TRANSCAN), Partners: K. Pantel, Univ of Hamburg, Germany (co-ordinator), E. Lianidou, Univ of Athens, Greece, C. Panabieres, University Medical Centre of Montpellier Saint-Eloi Hospital, France, Peter Sedlmayr, Medical University of Graz, Austria, Maciej Zabel, Poznan University of Medical Sciences, Poland

## Honours and Awards / Distinctions

2026: International Society of Liquid Biopsy: Life Time Achievement Award

2020: International Society of Liquid Biopsy: ISLB Women in Science Award 2020

2019: IUPAC 100 years: Global Women's breakfast, Empowering Women in Chemistry Award.

2011: AACR 2011 - SUZAN COMEN Scholar-in-Training Award, (to support attendance of Athina Markou at the AACR 102nd Annual Meeting 2011): "Molecular characterization of circulating tumor cells in breast cancer by liquid bead array hybridization assay". Athina N. Markou, Areti Strati, Nikos Malamos, Vassilis Georgoulias, Evi Lianidou. AACR 2011: 102nd Annual Meeting of American Association of Cancer Research (AACR), Orlando, FL, USA, 2011

2008: AACR 2008 – ASTRAZENECA INTERNATIONAL SCHOLAR IN TRAINING AWARD: AACR SPECIAL CONFERENCE: TARGETING THE PI3-KINASE PATHWAY IN CANCER, November 11-14, Cambridge, Massachusetts, USA, 2008. Panagiotis Vorkas, Vassilis Georgoulias, Evi Lianidou. Development of a highly sensitive method for the detection of somatic mutations of the PIK3CA gene, using High Resolution Melting Curve Analysis. Application in Formalin-Fixed Parafin Embedded Breast Tissues.

2008: AACR 2008 - AVON FOUNDATION INTERNATIONAL TRAVEL AWARD: 99th Annual Meeting of American Association of Cancer Research (AACR), San Diego, USA, 2008, Athina N. Markou, Areti D. Strati, Loukas Kaklamanis, Maria Kafoussi, Stathis Stathopoulos, Vassilis Georgoulias, Evi S. Lianidou. Evaluation of the prognostic significance of mature miR-10b expression in early breast cancer

2008: AACR 2008 - AVON FOUNDATION INTERNATIONAL TRAVEL AWARD: 99th Annual Meeting of American Association of Cancer Research (AACR), San Diego, USA, 2008, Areti D. Strati Athina N. Markoy, N. Malamos, Dimitris Mavroudis, Vassilis Georgoulias, Evi S. Lianidou TWIST1 expression in

circulating tumor cells of early breast cancer patients.

2008: AACR 2008 - AVON FOUNDATION INTERNATIONAL TRAVEL AWARD: 99th Annual Meeting of American Association of Cancer Research (AACR), San Diego, USA, 2008, M. Kioulafa, L. Kaklamanis , E. Stathopoulos, V. Georgoulias and E. S. Lianidou. PROGNOSTIC SIGNIFICANCE OF RASSF1A, CST6 AND KLK10 METHYLATION STATUS IN EARLY BREAST CANCER.

2005: AACR 2005: Avon Foundation – AACR International Scholar-in training grant. A. Stathopoulou, M. Ntoulia, M. Perraki, S. Apostolaki, N. Malamos, D. Mavroudis, V. Georgoulias, E. S. Lianidou. An improved real-time RT-PCR method for the quantitative determination of CK-19 mRNA positive cells in peripheral blood of breast cancer patients. 96th Annual Meeting of American Association of Cancer Research (AACR), Anaheim, California, USA.2005

2002: Excellent Poster Award: 18th International Congress of Clinical Chemistry and Laboratory Medicine, Kyoto, Japan, 2002. Stathopoulou, A. Gkizi, E. Lianidou, D. Mavroudis, V. Georgoulias, S. Derdas, N. Malamos. Real time quantification of CK-19 positive cells in peripheral blood of breast cancer patients.

2002: Excellent Poster Award: 18th International Congress of Clinical Chemistry and Laboratory Medicine, Kyoto, Japan, 2002. K. Angelopoulou, A. Spiropoulou, A. Stathopoulou, D. Dimitroulopoulos, K. Tmakidis, D. Xinopoulos, E. Paraskevas and E.S. Lianidou. Development of a novel RT-PCR luminometric hybridization assay for human telomerase reverse transcriptase (hTERT) active transcript.

9) Best Investigator's Award: 1st Congress of the World Society for Breast Health, Istanbul, 22-26 Sept. 2001. Konstantopoulou I., A. Ladopoulou L. Ioannidou-Mouzaka, A.C. Schofield, C. Kroupis, A. Pantazidis, I. Tsiagas, S. Armaou, E. Lianidou, C. Tsionou, E. Efstathiou, G. Nasioulas, N.E. Haites, G. Fountzilas, N. Pandis and D. Yannoukakos. "BRCA1 and BRCA2 mutation analysis in Greek patients with family history of breast/ovarian cancer",

- 10) First Poster Award: 5th International HSBCR Congress, Athens, 2001. Ladopoulou A., I. Konstantopoulou, L. Ioannidou-Mouzaka, C. Kroupis, A. Pantazidis, S. Armaou, E. Lianidou, C. Tsionou, E. Efstathiou, N.E. Haites, G. Nasioulas, D. Skarlos, G. Fountzilas, N. Pandis and D. Yannoukakos. "Germ line BRCA1 and BRCA2 mutations in Greek patients with family history of breast/ovarian cancer".

## Editorial tasks

- Cancers, Editorial board,
- Frontiers in Oncology, Editorial Board,
- Molecular Oncology, Editorial Board
- Journal Referee (Reviewing tasks): 63 different Scientific Journals

## Bibliometric Indicators

Google Scholar

- h-index: 65
- i10-index: 171
- citations: 13472