

LYDIA GIANNOPOULOU

MSc Clinical Chemistry



PERSONAL INFORMATION

Nationality: Greek

Date of birth: 9th May, 1988

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EDUCATION

01/2015 - Today **Doctoral Student**

National and Kapodistrian University of Athens

Department of Chemistry

Analysis of Circulating Tumor Cells Laboratory (<http://en.actc-lab.chem.uoa.gr/>)

PhD Dissertation:

“Study of methylation biomarkers in ovarian cancer”

Supervisor: Evi Lianidou, Ph.D.

Professor of Analytical Chemistry – Clinical Chemistry

Course: Analytical Chemistry

10/2012 – 10/2014 **MSc in Clinical Chemistry**

National and Kapodistrian University of Athens

Department of Chemistry, (<http://en.clinical-chemistry.chem.uoa.gr/>)

Grade: 9.78/10 (Excellent)

Master Thesis: “Study of *SOX17* and *CST6* genes methylation in ovarian cancer”, 10/2014

Analysis of Circulating Tumor Cells Laboratory (<http://en.actc-lab.chem.uoa.gr/>)

Supervisor: Evi Lianidou, Ph.D.

Professor of Analytical Chemistry – Clinical Chemistry

Courses: Clinical Chemistry I & II, Molecular Diagnostics, Instrumental Analysis, Molecular Biology, Human Genetics, Biostatistics-Chemometrics, Anatomy, Physiology

10/2006 – 10/2012 **BSc in Chemistry**

National and Kapodistrian University of Athens

Department of Chemistry

Grade: 7.21 (Very Good)

Thesis: “Growth and membrane fluidity of food-borne pathogen *Listeria monocytogenes* in the presence of weak acid preservatives and hydrochloric acid”, 06/2012

PUBLICATIONS

- **L. Giannopoulou**, M. Zavridou, S. Kasimir-Bauer, E.S. Lianidou. Liquid Biopsy in ovarian cancer: recent advances on circulating miRNAs and exosomes. *Transl Res* 2019; 205:77-91 (Review)
- **L. Giannopoulou**, S. Mastoraki, P. Buderath, A. Strati, K. Pavlakis, S. Kasimir-Bauer, E.S. Lianidou. *ESR1* methylation in primary tumors and paired circulating tumor DNA of patients with high-grade serous ovarian cancer. *Gynecol Oncol* 2018; 150:355-60
- **L. Giannopoulou**, S. Kasimir-Bauer, E.S. Lianidou. Liquid Biopsy in ovarian cancer: recent advances on circulating tumor cells and circulating tumor DNA. *Clin Chem Lab Med* 2018; 56:186-97 (Review)
- **L. Giannopoulou**, I. Chebouti, K. Pavlakis, S. Kasimir-Bauer, E.S. Lianidou. *RASSF1A* promoter methylation in high-grade serous ovarian cancer: a direct comparison study in primary tumors, adjacent morphologically normal tissues and paired circulating tumor DNA. *Oncotarget* 2017; 8:21429-443
- I. Diakogiannis, A. Berberi, E. Siapi, A. Arkoudi-Vafea, **L. Giannopoulou**, S. K. Mastronicolis. Growth and membrane fluidity of food-borne pathogen *Listeria monocytogenes* in the presence of weak acid preservatives and hydrochloric acid. *Front Microbiol* 2013; 4:1-4

ORAL PRESENTATIONS

- **L. Giannopoulou**. Liquid Biopsy in ovarian cancer. **1st Liquid Biopsy Meeting**: «Liquid Biopsy: latest advances, potentials and perspectives in modern oncology», Athens, Greece, 25 May 2019
- **L. Giannopoulou**, S. Mastoraki, P. Buderath, A. Strati, K. Pavlakis, S. Kasimir-Bauer, E.S. Lianidou. *ESR1* methylation in primary tumors and paired circulating tumor DNA of patients with high-grade serous ovarian cancer. **16^o National Congress of Clinical Chemistry**, Alexandroupoli, Greece, 11-13 October 2018

POSTER PRESENTATIONS

- **L. Giannopoulou**, S. Mastoraki, P. Buderath, A. Strati, K. Pavlakis, S. Kasimir-Bauer, E.S. Lianidou. *ESR1* methylation in primary tumors and paired circulating tumor DNA of patients with high-grade serous ovarian cancer. Poster presentation, **Athens Conference on Advances in Chemistry (ACAC)**, Athens, Greece, 30 October-2 November 2018
- **L. Giannopoulou**, S. Mastoraki, I. Chebouti, A. Strati, K. Pavlakis, S. Kasimir-Bauer, E.S. Lianidou. *ESR1* methylation in primary tumors and paired circulating tumor DNA of patients with high-grade serous ovarian cancer. Poster presentation, **AACR 109th Annual Meeting**, Chicago, 14-18 April 2018
- **L. Giannopoulou**, A. Strati, P. Buderath, S. Kasimir-Bauer, E.S. Lianidou. *PD-L1* expression in circulating tumor cells of patients with high-grade serous ovarian cancer. Poster presentation, **3rd Advances in Circulating Tumor Cells (ACTC) Meeting**, Rhodes, Greece, 04-07 October 2017
- **L. Giannopoulou**, S. Mastoraki, A. Strati, I. Chebouti, S. Kasimir-Bauer, E.S. Lianidou. *ESR1* methylation in primary tumors and paired circulating tumor DNA of patients with high-grade serous ovarian cancer. Poster presentation, **3rd Advances in Circulating Tumor Cells (ACTC) Meeting**, Rhodes, Greece, 04-07 October 2017
- **L. Giannopoulou**, I. Chebouti, K. Pavlakis, S. Kasimir-Bauer, E.S. Lianidou. *RASSF1A* gene promoter methylation in primary tumors, adjacent morphologically normal tissues and plasma samples of patients with high grade serous ovarian cancer. Poster presentation, **22nd IFCC-EFLM Euromedlab**, Athens, Greece, 11-15 June 2017
- **L. Giannopoulou**, S. Mastoraki, A. Strati, I. Chebouti, S. Kasimir-Bauer, E.S. Lianidou. *ESR1* methylation in plasma cfDNA of patients with high-grade serous ovarian cancer. Poster presentation, **AACR 108th Annual Meeting**, Washington DC, 01-05 April 2017
- **L. Giannopoulou**, I. Chebouti, K. Pavlakis, S. Kasimir-Bauer, E.S. Lianidou. *RASSF1A* gene promoter methylation in primary tumors, adjacent morphologically normal tissues and plasma samples of patients with high grade serous ovarian cancer. Poster presentation, **AACR 107th Annual Meeting**, New Orleans, Louisiana, 16-20 April 2016
- **L. Giannopoulou**, I. Chebouti, K. Pavlakis, S. Kasimir-Bauer, E.S. Lianidou. *SOX17* gene promoter methylation in high-grade serous epithelial ovarian cancer. Poster presentation, **AACR 106th Annual Meeting**, Philadelphia, Pennsylvania, 18-22 April 2015

SCHOLARSHIPS – AWARDS

- **36 months scholarship** through the operational programme “Human Resources Development, Education and Lifelong Learning” in the context of the project “Strengthening Human Resources Research Potential via Doctorate Research” (MIS-5000432), implemented by the **State Scholarships Foundation (IKY)**, 12/2016-12/2019
- **2018 AACR Takeda Oncology Scholar-In-Training Award:** *ESRI* methylation in primary tumors and paired circulating tumor DNA of patients with high-grade serous ovarian cancer. **L. Giannopoulou**, S. Mastoraki, I. Chebouti, A. Strati, K. Pavlakis, S. Kasimir-Bauer, E.S. Lianidou. **AACR 109th Annual Meeting**, Chicago IL, USA, 14-18 April 2018
- Scholarship from the Greek Society of Clinical Chemistry-Clinical Biochemistry for the attendance in the **16^o National Congress of Clinical Chemistry**, Alexandroupoli, Greece, 11-13 October 2018 and the oral presentation: *ESRI* methylation in primary tumors and paired circulating tumor DNA of patients with high-grade serous ovarian cancer. **L. Giannopoulou**, S. Mastoraki, I. Chebouti, A. Strati, K. Pavlakis, S. Kasimir-Bauer, E.S. Lianidou.
- Scholarship from the Greek Society of Clinical Chemistry-Clinical Biochemistry for the attendance in the **22nd IFCC-EFLM Euromedlab**, Athens, Greece, 11-15 June 2017 and the poster presentation: *RASSF1A* gene promoter methylation in primary tumors, adjacent morphologically normal tissues and plasma samples of patients with high grade serous ovarian cancer. **L. Giannopoulou**, I. Chebouti, K. Pavlakis, S. Kasimir-Bauer, E.S. Lianidou.

SCIENTIFIC EXPERIENCE

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|--------------------------|--|
| 10/2016 – 01/2019 | Laboratory Assistant at National and Kapodistrian University of Athens: |
| 02/2014 – 10/2014 | Training of undergraduate students of Faculty of Chemistry and Faculty of Pharmacy in the course of “Clinical Chemistry” |
| 07/2013 – 10/2013 | Chemist/Intern during the MSc in Clinical Chemistry:
“Agios Savvas” Cancer Treatment Hospital
Biochemistry Laboratory, Blood Service, Microbiology Laboratory |
| 03/2013 – 06/2013 | Laboratory Assistant at National and Kapodistrian University of Athens:
Training of undergraduate students of Faculty of Biology in the course of “Analytical Chemistry” |
| 02/2012 – 05/2012 | Intern during the BSc in Chemistry:
General Chemical State Laboratory
Laboratory of Fats and Oils |

LABORATORY EXPERIENCE

- **Molecular Techniques:**
 - Polymerase Chain Reaction (PCR), Methylation Specific PCR (MSP)
 - Real time PCR (Cobas z480, LightCycler Technology, Roche)
 - Methylation-Sensitive High-Resolution Melting Analysis (MS-HRMA)
 - Circulating Tumor Cells (CTCs) isolation from peripheral blood
 - DNA extraction from tissue and plasma samples
 - Sodium Bisulfite DNA treatment (DNA conversion)
 - Immunohistochemistry
- Automated analyzers for biochemical analyses and immunoassays: Roche, Abbott, Olympus, Siemens

INDEPENDENT COURSES

02/2017-04/2017: e-learning course: ‘Epigenetic Control of Gene Expression’, University of Melbourne, Organizer: Coursera (<https://www.coursera.org/>)

01/2016-02/2016: e-learning course: ‘Introduction to the Science of Cancer’, The Ohio State University, Organizer: Coursera (<https://www.coursera.org/>)

02/2013-06/2013, 12/2013-02/2014: ‘Structure and Functioning of Key Diagnostic Laboratories in the modern hospital’, Organizer: Greek Society of Clinical Chemistry – Clinical Biochemistry

REVIEWER IN SCIENTIFIC JOURNALS

- Cancer Genetics
- Disease Markers
- The Application of Clinical Genetics

SCIENTIFIC SOCIETIES

- Hellenic Society of Liquid Biopsy, Member, 03/2018-today
- American Association for Cancer Research (**AACR**), Associate Member, 02/2016-today
- Greek Society of Clinical Chemistry-Clinical Biochemistry (**GSCC-CB**), 2015-today
- Association of Greek Chemists (**AGC**), 2013 – today

LANGUAGES

English | Certificate of Proficiency in English, University of Michigan, **C2**
French | Diplôme d'études en langue française, **B2**

COMPUTING SKILLS

In silico design of primers and probes
(for PCR analyses)

PrimerPremier, MethPrimer

IBM SPSS Software
(12/2016)

Educational seminar on SPSS Statistical analysis: ‘Introduction to IBM SPSS Statistical analysis software package: Basic issues on data processing and analysis’. Athens, 05-06 December 2016

ECDL Core
(12/2010)

Concepts on IT, Using the computer and managing files, Word processing, Information and communication, Spreadsheets, Databases, Presentations

Website Management

Website management of Analysis of Circulating Tumor Cells Laboratory (<http://www.actc-lab.chem.uoa.gr/>) and the Postgraduate Studies Program on Clinical Chemistry (<http://clinical-chemistry.chem.uoa.gr/>), using the TYPO3 Content Management System (CMS)

CONFERENCES & SEMINARS (selected)

- 1st Liquid Biopsy Meeting: «Liquid Biopsy: Latest advances, potentials and perspectives in modern oncology», Athens, Greece, 25 May 2019
- Masterclass of sarcoma and rare cancers, Athens, Greece, 15-16 March 2019
- Athens Conference on Advances in Chemistry (ACAC), Athens, Greece, 30 October-2 November 2018
- 16th National Congress of Clinical Chemistry, Alexandroupoli, Greece, 11-13 October 2018
- Best of ASCO 2018, Athens, 21-22 September 2018
- Masterclass on Tumor Biomarkers, Athens, 20-21 September 2018
- **11th ISMRC International Symposium on Minimal Residual Cancer: Liquid Biopsy in Cancer Diagnostics and Treatment, Montpellier, France, 3-5 May 2018**
- **109th AACR Annual Meeting, Chicago IL, USA, 14-18 April 2018**
- 2nd Symposium on Advances in Cancer Immunology and Immunotherapy, Athens, 2-4 November 2017
- Masterclass on Tumor Biomarkers, Athens, 19-20 October 2017
- **3rd International Symposium on Advances in Circulating Tumor Cells (ACTC), Rhodes, Greece, 4-7 October 2017**
- Masterclass on Immuno-Oncology, Αθήνα, 16-17 Ιουνίου 2017
- **22nd IFCC-EFLM Euromedlab, Αθήνα, 11-15 Ιουνίου 2017**
- **108th AACR Annual Meeting, Washington DC, USA, 01-05 April 2017**
- San Antonio Breast Cancer Symposium in Greece, Athens, 13-14 January 2017
- 2nd Symposium on Advances in Cancer Immunology and Immunotherapy, Athens, 15-17 December 2016
- 15th Symposium on New Molecules in Cancer Therapeutics, Athens, 11-12 November 2016
- Masterclass on Immuno-Oncology, Athens, 24-25 June 2016
- Yearly update of advances in medical oncology, Athens, 27-28 May 2016
- Masterclass on Tumor Biomarkers, Athens, 12-13 May 2016
- **10th ISMRC International Symposium on Minimal Residual Cancer: Liquid Biopsy in Cancer Diagnostics and Treatment, Hamburg, Germany, 19-21 March 2016**
- 7th Seminar on Clinical and Research Oncology, Athens, 21-23 January 2016
- 1st Conference on Therapeutic Development in Oncology, Athens, 15-16 January 2016
- 14th Symposium on New Molecules in Cancer Therapeutics, Athens, 4 December 2015
- Advances in cancer immunology and immunotherapy, Athens, 30-31 October 2015
- 3rd National forum: Biosciences and Cancer: from prevention to treatment, Athens, 16-17 October 2015
- Masterclass on Tumor Biomarkers, Athens, 12-13 June 2015
- Masterclass on Immuno-Oncology, Athens, 21-22 May 2015
- Advanced Course in Pathology of Ovarian Tumors, Athens, 28 April 2015
- Masterclass on circulating tumor cells and molecular biomarkers, Crete, 15-17 December 2014
- 12nd National Congress of Clinical Chemistry, Athens, 7-8 November 2014
- **2nd International Symposium on Advances in Circulating Tumor Cells (ACTC), Crete, Greece, 8-11 October 2014**
- Hereditary Cancer Syndromes, Athens, 12-13 September 2014
- INsPiRE International Workshop on: Oncogenic Pathways and Antitumor Responses, Athens, 23-25 April 2014
- 64th National Conference of the Hellenic Society of Biochemistry and Molecular Biology, Athens, 6-8 December 2013
- 12th Symposium on New Molecules in Cancer Therapeutics, Athens, 18-19 October 2013
- 2nd National forum: Biosciences and Cancer: from prevention to treatment, Athens, 11-12 October 2013
- Scientific forum: Hereditary Breast Cancer, Athens, 21 September 2013
- Meeting on Biomarker Discovery, BRFAA, Athens, 10 May 2013