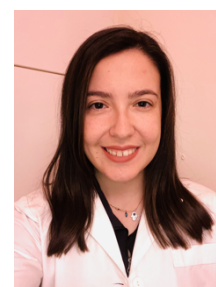


## PERSONAL INFORMATION

## Stavroula Smilkou

Address: Str. Milonos 24, 11745, Athens Greece



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Stavroula Smilkou

Stavroula Smilkou

Sex Female | Date of birth 23/04/1995 | Nationality Greek

## EDUCATION

From 11/2019 to today:

**PhD student, Analysis of Circulating Tumor Cells Lab, Department of Chemistry, University of Athens, Greece**

Title: «Development and validation of molecular assays for gene expression and mutation status in liquid biopsies samples»

Supervisor: Evi Lianidou, Ph.D, Professor of Analytical Chemistry-Clinical Chemistry

From 10/2017 to 07/2019:

**Postgraduate studies MSc in Clinical Chemistry**

Grade 9.44 "Excellent"

Analysis of Circulating Tumor Cells Lab, Department of Chemistry, University of Athens, Greece

From 09/2013 to 06/2017:

**BSc, Chemistry degree, Department of Chemistry, University of Ioannina**

Grade 7.95 "Very Good"

▪ Specialization in the field of Biochemistry & Clinical Chemistry

From 09/2010 to 06/2013:

**Graduated from the High School of Goumenissa, Kilkis**

Grade 18.6/20 "Excellent"

**COMPLEMENTARY  
EDUCATION**

From 08/2022 to 05/2023:

**"Special Education", University of Patras**

From 11/2022 to 12/2022

**"Hospital Information System", National and Kapodistrian University of Athens**

From 09/2021 to 07/2022:

**"Environmental Education-Education for Sustainable Development", National and Kapodistrian University of Athens**

## SCIENTIFIC EXPERIENCE

From 28/11/2023 to today:

**Chemist, Hematology Laboratory, Evaggelismos General Hospital of Athens**

- From 07/2020 to 12/2020: **Clinical Chemist, immunobiochemical analyzer (Elecsys e411) operator Roche, Research Study “Seroprevalence of Antibodies against SARS-CoV-2 among the Personnel and Students of the National and Kapodistrian University of Athens”**
- From 12/2021 to 01/2022  
From 11/2019 to 02/2020  
From 11/2018 to 02/2019 **Clinical Chemistry Laboratory Assistant, Department of Chemistry, University of Athens, Laboratory training of undergraduate students of the Department of Chemistry and Pharmacy**
- From 12/2021 to 01/2022  
From 11/2019 to 01/2020  
From 11/2017 to 02/2018 **Laboratory Assistant of Analytical Chemistry, Department of Chemistry, University of Athens, Laboratory training of undergraduate students of the Department of Biology**
- From 12/07/2018 to 19/09/2018 **Internship at the Biochemical Department of the Evaggelismos General Hospital of Athens**

**LABORATORY TECHNIQUES**

- **CELLSEARCH<sup>®</sup> Cell Interpretation User, (Menarini Silicon Biosystems), 5/10/2023**
- Isolation of circulating tumor cells using automated machine of microfluidics (Parsortix, ANGLE)
- Isolation of RNA & DNA from plasma and circulating tumor cells
- Real time PCR (Cobas z480, LightCycler 1.5 & 2.0 Technology, Roche Diagnostics)
- Crystal Digital PCR (STILLA, BIORAD)
- Gene expression analysis and mutation analysis

**SCIENTIFIC PUBLICATIONS**

- **Smilkou S**, Ntzifa A, Stergiopoulou D, Georgoulas V, Lianidou E. Multiplex detection of ten *ESR1* mutations and *AKT1* E17K in breast cancer using digital PCR. *J Liq Biopsy* 2024:100154. <https://doi.org/10.1016/J.JLB.2024.100154>.
- Stergiopoulou D, **Smilkou S**, Georgoulas V, Kaklamanis L, Lianidou E, Markou A. Development and Validation of a Novel Dual-Drop-off ddPCR Assay for the Simultaneous Detection of Ten Hotspots *PIK3CA* Mutations. *Anal Chem.* 2023 Sep 19;95(37):14068-14076. doi: 10.1021/acs.analchem.3c02692.
- Martha Zavridou, **Stavroula Smilkou**, Victoria Tserpeli, Aggeliki Sfika, Evangelos Bournakis, Areti Strati, Evi Lianidou, Development and Analytical Validation of a 6-Plex Reverse Transcription Droplet Digital PCR Assay for the Absolute Quantification of Prostate Cancer Biomarkers in Circulating Tumor Cells of Patients with Metastatic Castration-Resistant Prostate Cancer, *Clinical Chemistry*, 2022;, hvac125, <https://doi.org/10.1093/clinchem/hvac125>
- Markou, A.N.; **Smilkou, S.**; Tsaroucha, E.; Lianidou, E. The Effect of Genomic DNA Contamination on the Detection of Circulating Long Non-Coding RNAs: The Paradigm of MALAT1. *Diagnostics* 2021, 11, 1160. <https://doi.org/10.3390/diagnostics11071160>
- Tsitsilonis OE, Paraskevis D, Lianidou E, Terpos E, Akalestos A, Pierros V, Kostaki EG, Kastritis E, Moutsatsou P, Politou M, Scorilas A, Sphicopoulos T, Thomaidis N, Trougakov IP, Tsakris A, Voulgaris N, Daskalaki CC, Evangelakou Z, Fouki C, Giannidou DD, Gumeni S, Kostopoulos IV, Manola MS, Orologas-Stavrou N, Panteli C, Papanagnou E-D, Rousakis P, Sklirou AD, **Smilkou S**, Stergiopoulou D, Tsiodras S, Dimopoulos M-A, Sfrikakis PP. SARS-CoV-2 Infection Is Asymptomatic in Nearly Half of Adults with Robust Anti-Spike Protein Receptor-Binding Domain Antibody Response. *Vaccines.* 2021; 9(3):207. <https://doi.org/10.3390/vaccines9030207>

- Zavridou 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*. 2021; 13(4):780. <https://doi.org/10.3390/cancers13040780>
- Tsitsilonis OE, Paraskevis D, Lianidou E, Pierros V, Akalestos A, Kastritis E, Moutsatsou P, Scorilas A, Sphicopoulos T, Terpos E, Thomaidis N, Tsakris A, Voulgaris N, Daskalaki CC, Evangelakou Z, Fouki C, Gianniu DD, Gumeni S, Kostaki E-G, Kostopoulos IV, Manola MS, Orologas-Stavrou N, Panteli C, Papanagnou E-D, Rousakis P, Sklirou AD, **Smilkou S**, Stergiopoulou D, Trougakos IP, Tsiodras S, Sfikakis PP, Dimopoulos M-A. Seroprevalence of Antibodies against SARS-CoV-2 among the Personnel and Students of the National and Kapodistrian University of Athens, Greece: A Preliminary Report. *Life*. 2020; 10(9):214. <https://doi.org/10.3390/life10090214>

#### ORAL PRESENTATIONS

- «6-Color Crystal Digital PCR™ for the high-Plex detection of 10 *ESR1* mutations and *AKT1* E17K in breast cancer», 6<sup>th</sup> Advances in Circulating Tumor Cells: “Liquid Biopsy and Precision Oncology: Where do we stand now??”, 20-23 September 2023, Skiathos
- «Analysis of HER2 status in CTCs of breast cancer patients», 2<sup>nd</sup> Day-Conference Liquid Biopsy: « Latest Advances, possibilities and challenges in contemporary oncology», 27 January 2023, Athens
- «THE EFFECT OF GENOMIC DNA CONTAMINATION ON THE DETECTION OF CIRCULATING LONG NON-CODING RNAs: THE PARADIGM OF MALAT1», 19<sup>th</sup> Panhellenic Conference of Clinical Chemistry – Clinical Biochemistry, 4-6 November 2021, Athens

#### POSTER PRESENTATIONS

1. “Detection of hotspot PIK3CA mutations in primary tumors and plasma-cfDNA of breast cancer patients using a novel highly sensitive CE-IVD kit”, AACR Annual Meeting 2024, San Diego
2. «6-Color Crystal Digital PCR™ for the high-Plex detection of 10 *ESR1* mutations and *AKT1* E17K in breast cancer», 6<sup>th</sup> Advances in Circulating Tumor Cells: “Liquid Biopsy and Precision Oncology: Where do we stand now??”, 20-23 September 2023, Skiathos
3. «6-Color Crystal Digital PCR™ for the high-Plex detection of 10 *ESR1* mutations and *AKT1* E17K in breast cancer», 6<sup>th</sup> Advances in Circulating Tumor Cells: “Liquid Biopsy and Precision Oncology: Where do we stand now??”, AACR Annual Meeting 2023, Orlando, Florida
4. «THE EFFECT OF GENOMIC DNA CONTAMINATION ON THE DETECTION OF CIRCULATING LONG NON-CODING RNAs: THE PARADIGM OF MALAT1», 5<sup>th</sup> Advances in Circulating Tumor Cells: “Liquid Biopsy in its best” (ACTC 2021), Kalamata, 22-25 September 2021
5. «THE EFFECT OF GENOMIC DNA CONTAMINATION ON THE DETECTION OF CIRCULATING LONG NON-CODING RNAs: THE PARADIGM OF MALAT1», III ANNUAL ISLB CONGRESS 2021 - LIQUID BIOPSY, 22 October 2021, Virtual
6. «*CTLA-4* expression in CTCs of cancer patients under Immunotherapy», 2<sup>nd</sup> EACR Conference on Liquid Biopsies, 24-26 May 2022, Bergamo, Italy, **Meeting Bursary Award**
7. «*CTLA-4* expression in CTCs of cancer patients under Immunotherapy», Athens Conference on Advances in Chemistry (ACAC 2022), 26 June – 1 July 2022, National and Kapodistrian University of Athens (NKUA), Athens

#### PERSONAL SKILLS

Native language

Greek

#### OTHER LANGUAGES

English

Excellent Knowledge of English (ECPE, Certificate of Proficiency in English, University of Michigan, Level **C2**), May 2019

**German** Good level, Goethe Zerifikat B1, May 2023

**Organizational /  
management skills** Collaborative, diligent, willing, responsible

**Computer skills**

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Certificate of Key CERT IT Basic PLUS (2008)

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- Very good knowledge of Office (Word processing, Spreadsheets Excel, Presentations Power Point)
- Internet applications, Computer practice & file management, Databases
- Website creation and management
- In silico primer design, PrimerPremier, MethPrimer
- Knowledge of statistical analysis SPSS version 26.0

IT SYSTEMS MANAGER

- HOSPITAL INFORMATION SYSTEM TECHNICIAN qualification based on the requirements set out in the TÜV HELLAS INFORMATION SYSTEMS MANAGERS

**Active member in scientific  
associations**

- Member of Hellenic Society of Chemists
- Member of Hellenic Society of Liquid Biopsy
- Member of European Association for Cancer Research (EACR)
- Associate Member of American Association for Cancer Research (AACR)

**CONFERENCES**

Seminars

Lessons

- **6<sup>th</sup> Advances in Circulating Tumor Cells: “Liquid Biopsy and Precision Oncology: Where do we stand now??”, 20-23 September 2023, Skiathos (Speaker)**
- **AACR Annual Meeting 2023, 14-19 April 2023, Orlando, Florida**
- **2<sup>nd</sup> Day-Conference Liquid Biopsy: « Latest Advances, possibilities and challenges in contemporary oncology», 27 January 2023, Athens (Speaker)**
- Best of San Antonio Breast Cancer Symposium®, Athens, 14 January 2023
- Athens Conference on Advances in Chemistry (ACAC 2022), 26 June – 1 July 2022, National and Kapodistrian University of Athens (NKUA), Athens
- **2<sup>nd</sup> EACR Conference on Liquid Biopsies, 24-26 May 2022, Bergamo, Italy (Meeting Bursary Award)**
- VII SIMPOSIO BIOPSIA LÍQUIDA (virtual), 26th to 28th January 2022 (22 lective hours)
- **Full day webinar on “Liquid Biopsy in the Clinical Setting”, 15 January 2022**
- Best of San Antonio Breast Cancer Symposium – Greece 2021, 15 January 2022 (6 CME-CPD credits)
- **19<sup>th</sup> Panhellenic Conference of Clinical Chemistry – Clinical Biochemistry, 4-6 November 2021, Athens**
- III ANNUAL ISLB CONGRESS 2021 - LIQUID BIOPSY, 22 October 2021, Virtual
- **5<sup>th</sup> Advances in Circulating Tumor Cells: “Liquid Biopsy in its best” (ACTC 2021), Kalamata, 22-25 September 2021**
- **Statistical Analysis program SPSS, November-December 2020**
- ISLB Annual Meeting, 30 October 2020, Virtual Congress
- 12<sup>th</sup> ISMRC VIRTUAL- SHANGHAI, 24-25 October 2020
- 18<sup>th</sup> Panhellenic Conference of Clinical Chemistry – Clinical Biochemistry, online 15-17 October 2020
- AACR Virtual Annual Meeting II 2020, online on June 22 – 24, 2020
- AACR Virtual Annual Meeting I 2020, online on April 27–April 28, 2020
- Masterclass on Tumor Biomarkers, Athens, 10-11 October 2019
- 4<sup>th</sup> ACTC “Advances in Circulating Tumor Cells - Liquid Biopsy: Latest Advances and Future Challenges”, 2-5 October 2019, Corfu, Greece
- “Best of 19<sup>th</sup> IASLC World Conference on Lung Cancer (WCLC) 2018”, 2 February 2019
- 16<sup>th</sup> Panhellenic Conference of Clinical Chemistry, 11-13 October 2018
- Masterclass on Tumor Biomarkers, Hellenic Society of Molecular Therapeutic Targeting of Cancer, Athens, 20-21 September 2018
- 3<sup>rd</sup> Masterclass Gynaecological Oncology 2018: Ovarian Cancer, Athens, 8-9 June 2018
- **12 hours total classes, issues related to In Vitro Diagnostic Laboratories, GSCC-CB, March-June 2018**
- 23<sup>rd</sup> Seminar of Continuing Education, “The protection of personal data through risk management in In Vitro Diagnostic Laboratories”, GSCC-CB, Athens, 5 May 2018 “Yearly Update of Advances in Medical Oncology 2017”, Athens, 20-21 April 2018 (16 CME-CPD credits)
- 68<sup>th</sup> Panhellenic Conference of Hellenic Society of Biochemistry & Molecular Biology, Athens, 10-12 November 2017 3<sup>rd</sup> Symposium on “Advances in Cancer Immunology and Immunotherapy”, Athens, 2-4 November 2017 (20 CME-CPD credits)
- Masterclass on Tumor Biomarkers, Hellenic Society of Molecular Therapeutic Targeting of Cancer, Athens, 19-20 October 2017 (14 CME-CPD credits)
- 67<sup>th</sup> Panhellenic Conference of Hellenic Society of Biochemistry & Molecular Biology, Ioannina, 25-27 November 2016
- 1<sup>st</sup> International Workshop on Reshaping Drug Discovery: The Intrinsically Disordered Proteome as Drug Target, Ioannina, 19 June 2015