

STEFANOS SMYRNIOTIS

EDUCATION

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- 05/2023 - National and Kapodistrian University of Athens, School of Medicine**
BSRC “Alexander Fleming”, Institute for Fundamental Biomedical Research
 Dr. Vassilis Aidinis Research Group
 PhD candidate *“ECM homeostasis and fibroblast activation in fibroproliferative diseases”*
- 09/2015 – University of Ioannina, Faculty of Health Sciences**
06/2020 Department of Biological Applications & Technology
 5-year Integrated Master’s Degree, 300 ECTS
Diploma Thesis (09/2019 – 06/2020)
«The role of mitochondrial unfolded protein response in cancer»
 NCSR Demokritos, Institute of Biosciences and Applications
 Laboratory of Molecular Carcinogenesis and Rare Disease Genetics, Dr. Gerassimos Voutsinas
- 2015 High School Diploma**
 2nd High School of Tripolis, Greece

EXPERIENCE

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- 07/2020 – Research Assistant, NCSR Demokritos, Athens, Greece**
03/2022 Institute of Biosciences and Applications
 Laboratory of Molecular Carcinogenesis and Rare Disease Genetics, Dr. Gerassimos Voutsinas
 Project: *“The LonP1 protein in cancer”*
- 12/2020 – Research Assistant, NCSR Demokritos, Athens, Greece**
11/2021 Institute of Biosciences and Applications, Dr. Dimitris Kletsas
 Project: *“Screening of inhibitors with potential anticancer effects”*
- 06/2020 Two-week Western Blot Training, BRFAA, Athens, Greece**
 Laboratory of Molecular Genetics of Aging, Dr. Popi Syntichaki
- 09/2019 – Undergraduate Researcher, NCSR Demokritos, Athens, Greece**
06/2020 Institute of Biosciences and Applications
 Laboratory of Molecular Carcinogenesis and Rare Disease Genetics, Dr. Gerassimos Voutsinas
 Project: *“The role of mitochondrial unfolded protein response in cancer development”*
- 07 - Internship, Hellenic Pasteur Institute**
08/2019 Medical Microbiology Lab, Dr. Dionyssios Sgouras
 Internship Program “NSRF”

LANGUAGE SKILLS

English	Excellent (C2 Level), Certificate of English Language Proficiency, Michigan State University
German	Good (B2 Level), Goethe Institut – Zertifikat B2
Greek	Native

COMPUTER SKILLS

ECDL Holder	MS OFFICE: Microsoft Word, Excel, Power Point
GraphPad Prism	Graphing and Statistics Software
Fiji – Image J	Image Processing Package
SPSS	Statistics, Basic Knowledge

TECHNICAL SKILLS

DNA & RNA	Isolation, PCR, Reverse Transcription, RT-qPCR, Electrophoresis
Protein	Expression, Isolation, Quantification, Western blot analysis
Cell Culture	Organoids, Primary & Immortalized cell lines (handling, expansion, freezing), Transfection (siRNA, pDNA), Cytotoxicity (MTT), Scratch wound healing assay, pharmacological treatments

Animal Models	Handling of laboratory mice
Molecular Cloning	Oligonucleotide selection (primer designing), Restriction enzyme digestion, Bacterial transformation
Microscopy	Light, Fluorescent

PUBLICATIONS

Taouktsi E, Kyriakou E, **Smyrniotis S**, Borbolis F, Bondi L, Avgeris S, Trigazis E, Rigas S, Voutsinas GE, Syntichaki P. Organismal and Cellular Stress Responses upon Disruption of Mitochondrial LonP1 Protease. *Cells*. 2022; 11(8):1363.

ABSTRACTS IN CONFERENCES

- 01/03/2023** Taouktsi E., Verganelakis D., Voulgaraki E., Kyriakou E., **Smyrniotis S.**, Voutsinas G.E., Syntichaki P. "Crosstalk between mitochondrial LONP1 and stress surveillance mechanisms". International Symposium: Integration in Biological Signaling, Centre for Integrative Biological Signaling Studies, Freiburg im Breisgau, Germany.
- 27/11/2021** **Smyrniotis S.**, Bondi L., Avgeris S., Kyriakou E., Taouktsi E., Borbolis F., Syntichaki P., Voutsinas G.E. "LONP1 disruption triggers mitochondrial and cytoplasmic stress responses interfering with cell survival and motility in cancer cells". 71st Conference of the Hellenic Society of Biochemistry and Molecular Biology, November 26 – 28, 2021, Athens, Greece (Oral presentation).
- 14/10/2021** E. Taouktsi, E. Kyriakou, F. Borbolis, **S. Smyrniotis**, L. Bondi, S. Avgeris, G.E. Voutsinas, P. Syntichaki. "Organismal and cellular stress responses to disruption of mitochondrial LONP1 protease". ISANH Paris Redox World Congress 2021 – October 13 – 15, 2021 – Interactive Online Congress.
- 07/07/2021** E. Taouktsi, E. Kyriakou, F. Borbolis, **S. Smyrniotis**, L. Bondi, S. Avgeris, G.E. Voutsinas, P. Syntichaki. "Disruption of LONP1 mitochondrial protease initiates a stress responsive cross-talk between mitochondrial and cytoplasmic proteostatic mechanisms in *Caenorhabditis elegans* and human cancer cells". 45th FEBS Congress, 3-8 July 2021, Ljubljana, Slovenia (virtual).
- 15/04/2021** **Smyrniotis S.**, Bondi L., Avgeris S., Kyriakou E., Borbolis F., Syntichaki P., Voutsinas G.E.. "Stress response mechanisms are activated after genetic knockdown or pharmacological inhibition of LONP1 protease in cancer cells". Virtual conference of the Hellenic Society of Biochemistry and Molecular Biology, January – June 2021.
- 08/12/2018** "Nanobiotechnology and Innovative Perspectives on Drug Delivery Systems". 3rd National Scientific Conference of Pharmacy Students «NSCPS» Thessaloniki, Greece

CONTINUOUS TRAINING / SEMINARS

- 2021** Virtual Conference of Hellenic Society of Biochemistry and Molecular Biology (HSBMB) Radiation Protection for the use of Radioisotopes in Biological Research, 2h Seminar organized by the Greek Atomic Energy Commission, NCSR Demokritos, Athens, Greece
- 2020** Cell Bio Virtual 2020 – An Online ASCB | EMBO Meeting
- 2019** 70th Congress of the Hellenic Society of Biochemistry and Molecular Biology, Athens, Greece
Microscopy Techniques: Theory & Applications, 8h Seminar Series organized by Institute of Nanoscience & Nanotechnology, NSCR Demokritos, Athens, Greece
13th Molecular Oncology & Targeted Therapy Training Seminar, Ioannina, Greece
- 2018** 10th National Congress of the Hellenic Society of Basic and Clinical Pharmacology, Ioannina, Greece
- 2017** Seminar: Health and Safety in Research Laboratories
Ioannina, Greece
- 2016** 67th Congress of the Hellenic Society of Biochemistry and Molecular Biology, Ioannina, Greece