

YVONNI XESFYNGI

PERSONAL

Name
YVONNI XESFYNGI

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LANGUAGES

English ★★★★★
Greek ★★★★★
French ★★



EDUCATION AND QUALIFICATIONS

Sep 2013 - Nov 2019 **Master of Chemical Engineering**
Aristotle University of Thessaloniki, Thessaloniki Greece
8.01/10

Sep 2019 - present **Master of Science**
Metsovio Polytechnic University of Athens, Athens Greece

Master of Science in Microsystems and Nanodevices(MSc), School of Applied Mathematical and Physical Studies, National Technical University of Athens.

ACADEMIC RESEARCH EXPERIENCE



RESEARCH DISSERTATION

August 2020-present
Institute of Nanoscience & Nanotechnology (INN)–National Centre of Scientific Research "Demokritos"
“Cell lysis and evaluation of DNA extraction on “Lab-on-a-chip”

November 2018-November 2019
Laboratory of Inorganic Chemistry and Chemistry of Advanced Materials, Aristotle University of Thessaloniki
“Study of toxic activity of metallotoxins endogenous and non-metal ions in vitro model of lung cancer”



ACHIEVEMENTS

December 2017-October 2018

International Genetically Engineered Machine competition
Member of the collegiate team to participate in the iGEM competition, with the implementation of the project: “Galene, a genetic toolbox for controlled gene expression”.

Project: Gene expression is unpredictable, noisy and prone to perturbations, thus posing a challenge towards designing reliable and functional systems. One of the most decisive factors affecting the functionality of synthetic biological systems is gene copy number variation, that gives rise to variability in gene expression. We provide Galene, a genetic toolbox that enhances system stability by disassociating gene expression from copy number and provides translational control of protein production.

Evaluation: Silver Medal award.



SKILLS

IT Skills Proficiency Certificate:

Microsoft Word ★★★★★

Statistical analysis programs:

R, SPSS, GraphPad ★★★★★

Programming languages:

Matlab, Python ★★★★★

Modeling software:

Aspen Plus, COMSOL ★★★★★



TECHNICAL SKILLS

Analytical techniques: FT-IR spectroscopy, UV-Visible spectroscopy

Microscopy: Confocal and fluorescent microscopy, Scanning electron microscopy (SEM), Transmission electron microscopy (TEM).

Molecular biology techniques: Development of cell culture medium, culturing and preservation about human cell lines (Beas-2b, fibroblasts 3T3-L1, Saos-2 and A549) and bacteria (Escherichia coli), investigation of toxicity assays (cell counting using Trypan Blue dye, measurement of cytotoxicity by luciferase reaction of ATP and cell migration by Scratch-wound assay method), micro-plating method for characterization of surface chemistry and the evaluation of killing rate and toxicity mechanisms in cells.

Nucleic acids: PCR, DNA extraction, electrophoresis.

Presentations

International Conferences

Galene, a genetic toolbox for gene expression: Oral and poster presentation at the iGEM competition final phase called "The Giant Jamboree", Boston, USA, 2018. *Team: Alexopoulos I., Giannoula Y., Giannopoulos-Dimitriou A., Karatakis P., Kiriakidis P., Kyrpizidis G., Xesfyngi Y*