

## CURRICULUM VITAE: Elisavet Lioulia, MSc

**Profession:** Biologist    **Nationality:** Greek    **Date of Birth:** 21 June 1988    **E-mail address:** [lioulia@bio.auth.gr](mailto:lioulia@bio.auth.gr)



### EDUCATION - ACADEMIC EXPERIENCE

- 2012-2014 **Master Degree**, Graduate Program: "Applied Genetics and Biotechnology", Biology Department, Aristotle University of Thessaloniki, Greece, **Grade: 9.33 (Excellent)**, Dissertation Title: "Analysis of the expression pattern of genes in models and biopsies of hepatocellular carcinoma", Supervisor: **Professor Margarita Hadzopoulou-Cladaras**
- 2007-2012 **Degree** in Biology, Biology Department, Aristotle University of Thessaloniki, Greece, **Grade: 7.97 (Very good)**, Dissertation Title: "Evaluation of the insecticidal and genotoxic activity of the essential oil of the plant *Pimpinella anisum* and the essential oil constituents b-pinene, terpinyl acetate and alpha terpineol at dipterous insect *Drosophila melanogaster*", Supervisors: **Professor Penelope Mavragani-Tsipidou and Assistant Professor Elena Drosopoulou**

### RESEARCH EXPERIENCE - LABORATORY SKILLS

- Development of 2-Dimensional (2D) and 3-Dimensional (3D) *in vitro* models of hepatocellular carcinoma: transient/ stable transfection and lentiviral infection, RNA interference (siRNA, shRNA), fluorescence microscopy, immunohistochemistry, flow cytometry, Assessment of oncogenic phenotype: cell viability (Alamar Blue, MTT Assay), migration (Scratch Assay), anchorage independent cell growth (Soft Agar Assay), Matrigel Invasion Assay
- Bacterial transformation, RNA/ DNA isolation, RNA/ DNA electrophoresis, quantification of RNA/ DNA concentration (spectrophotometer), cDNA synthesis, Real-Time Quantitative PCR, protein extraction-quantification (Bradford assay), SDS-PAGE electrophoresis, Western blotting
- Assessment of genotoxic activity, use of *Drosophila melanogaster* as a model organism, use of *Drosophila melanogaster* (Meigen) somatic mutation and recombination test
- Supervised several undergraduate students' projects, as well as the undergraduate laboratory courses of Developmental Biology, Microbiology, Genetics, during my MSc and Degree Studies

### ORGANIZATIONAL - LEADERSHIP SKILLS

- 2014 General Secretary of the 2<sup>nd</sup> Conference of Young Scientists' of Hellenic Society For Biochemistry and Molecular Biology (HSBMB): conference organization, chair and member of the committee for the scientific evaluation of oral and poster presentations

### SCHOLARSHIPS - ACHIEVEMENTS

- 2014 Selected after evaluation for **Bodossaki Foundation Seminar** series in Biology and Medicine, September 7-11, 2014, Sounio Attikis, Greece (35 selected, cover of accommodation and transport costs)
- 2012-2014 **Scholarship awarded** after evaluation for Post-Graduate Studies, **the 2<sup>nd</sup> of all candidates** in the field of Biosciences, Action "Scholarships Programmes by the State Scholarships Foundation", **State Scholarships Foundation-IKY**

### CONFERENCES (ORAL AND POSTER PRESENTATIONS)

- Ntina O.-M., **Lioulia E.**, Vallianou I., **Dafou D.**, Hadzopoulou-Cladaras M.. 2014. Mir24-Mediated HNF4 $\alpha$  Silencing Induced Epithelial-to-Mesenchymal transition (EMT) in 3D models of Liver Cancer Through Notch and TGF- $\beta$  Signalling Pathways. 65<sup>th</sup> Congress of The Hellenic Society of Biochemistry and Molecular Biology, Thessaloniki, Greece (ORAL PRESENTATION)
- **Lioulia E.**, Vallianou I., Ntina O.-M., Hytiroglou P., Poutahidis T., Hadzopoulou-Cladaras M., Dafou D.. 2014. HNF4 $\alpha$  Transcription Factor Silencing Increases Oncogenic Phenotype in 3D HepG2 Hepatic Cell Lines. 36<sup>th</sup> Scientific Conference of Hellenic Association for Biological Sciences, Ioannina, Greece (ORAL AND POSTER PRESENTATION)
- Ntina O.-M., **Lioulia E.**, Hytiroglou P., Poutahidis T., Vallianou I., Dafou D., Hadzopoulou-Cladaras M.. 2014. HNF4 $\alpha$  Transcription Factor Mediated EMT in 3D Huh-7 Hepatic Cell Lines. 36<sup>th</sup> Scientific Conference of Hellenic Association for Biological Sciences, Ioannina, Greece (ORAL AND POSTER PRESENTATION)
- **Panteleri R.**, **Lioulia E.**, Koutsonikou C., Mademtoglou D., Mavragani-Tsipidou P., Konstantopoulou M.. 2012. Evaluation of the insecticidal and genotoxic activity of the essential oil of the plant *Pimpinella anisum* and its major constituent trans-anethole. 34<sup>th</sup> Scientific Conference of Hellenic Association for Biological Sciences, Trikala, Greece (ORAL AND POSTER PRESENTATION)
- **Lioulia E.**, Koutsonikou C., Panteleri R., Mademtoglou D., Konstantopoulou M., Mavragani-Tsipidou P.. 2011. Evaluation of the insecticidal and genotoxic activity of the essential oils of the plants *Azadirachta indica*, *Pimpinella anisum* and *Carum carvi*. 33<sup>th</sup> Scientific Conference of Hellenic Association for Biological Sciences, Edessa, Greece (ORAL AND POSTER PRESENTATION)
- **Koutsonikou C.**, **Lioulia E.**, Mademtoglou D., Pavlidou T., Mpazioti G., Vokou D., Mavragani-Tsipidou P.. 2011. Evaluation of the insecticidal, genotoxic and recombinogenic potential of six essential oil constituents, representatives of alcohols, esters and hydrocarbons. 33<sup>th</sup> Scientific Conference of Hellenic Association for Biological Sciences, Edessa, Greece (ORAL AND POSTER PRESENTATION)

### PUBLICATIONS

- Mademtoglou, D., Pavlidou, T., Bazioti, M.-., Koutsonikou, C., **Lioulia, E.**, Akmoutsou, P., Drosopoulou, E., Vokou, D. & Mavragani-Tsipidou, P. 2013, "Assessment of the genotoxic potential of essential oil constituents by the *Drosophila* wing spot test", *Flavour and Fragrance Journal*, vol. 28, no. 3, pp. 188-194. **Impact factor: 1.8**

### FOREIGN LANGUAGES

**English (Level C1):** a) Cambridge ESOL Level 2 Certificate in ESOL International (Council of Europe Level C1). University of Cambridge. May 2012, b) IELTS. University of Cambridge (British Council) (Overall Band Score: 6). January 2015

### COMPUTER SKILLS

- Excellent use of MS Office Software: ECDL (European Computer Driving License). 2011
- SPSS software, Adobe Photoshop, Image J, ImageQuant, Oligo