

# Curriculum Vitae

## PERSONAL INFORMATION

Name: Jason Charamis

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Address: Peloponnissou 18, Therissos, Heraklion, Crete.

## EDUCATION

### POSTGRADUATE STUDIES

- 2020- PhD candidate in Molecular Entomology, Faculty of Biology, School of Sciences, University of Crete. Title: “Genomic and transcriptomic analysis of pesticide resistance in mosquitoes and agricultural pests”. Supervisor: Pavlos Pavlidis, Assistant Researcher, Institute of Computer Science (ICS), Foundation of Technology and Research - Hellas (FORTH).
- 2018-2020 Master Programme in ‘Molecular Biology and Biomedicine’, Faculty of Biology, School of Sciences, University of Crete. (Grade: Excellent).

Master thesis (2019-2020): “Analysis of the insecticide resistance mechanisms in enemies of public health and agriculture with the use of -omics technologies and bioinformatics”. Molecular Entomology / Pesticide Science Lab, Institute of Molecular Biology & Biotechnology (IMBB), FORTH, Heraklion, Crete. Supervisor: Professor John Vontas, Agricultural University of Athens.

### UNDERGRADUATE STUDIES

- 2013-2018 Degree in Biology, Faculty of Biology, School of Sciences, National and Kapodistrian University of Athens (NKUA) (Grade: Very Good, 7.53/10.0).

Diploma thesis (2015-2017): “Study of cloning and expression vectors for  $\alpha$ -proteobacteria”. Microbial Molecular Genetics Lab, Genetics & Biotechnology Department, Faculty of Biology, NKUA. Supervisor: Associate Professor Mrs. Aikaterini-Maria Pappa (Grade: 10.0/10.0).

### RESEARCH EXPERIENCE

07.2019-09.2019 “Study of the evolution of NMDA Receptor genes on the human genome”. EvoLab: Population Genetics & Bioinformatics, Institute of Computer Science (ICS), FORTH, Heraklion, Crete. Supervisor: Researcher Pavlos Pavlidis, FORTH-ICS.

05.2019-07.2019 “Functional and topological study of duplicated genes in *Saccharomyces cerevisiae*.” Computational Genomics Group, Institute of Molecular Biology & Biotechnology (IMBB), FORTH, Heraklion, Crete. Supervisor: Assistant Professor Christoforos Nikolaou, University of Crete.

02.2019-04.2019 “RNAi-mediated knockdown of genes implicated in insecticide resistance of the major malaria vector *Anopheles gambiae*”. Molecular Entomology / Pesticide Science Lab, Institute of Molecular

Biology & Biotechnology (IMBB), FORTH, Heraklion, Crete. Supervisor: Professor John Vontas, Agricultural University of Athens.

07.2015-10.2017 “Study of cloning and expression vectors suitable for  $\alpha$ -proteobacteria”. Molecular Genetics & Microbiology Lab, Faculty of Biology, School of Sciences, NKUA. Supervisor: Associate Professor Aikaterini-Maria Pappa, Faculty of Biology, NKUA.

## GENERAL SKILLS

**Languages:** English (Excellent knowledge-Proficiency Michigan)  
German (Very Good knowledge-Zertifikat B2)

**H/Y Skills:** Microsoft Office (Word, Excel, Powerpoint), SPSS, GenBank, PubMed, Uniprot

## NOTABLE SCIENTIFIC SKILLS

- Cloning and bacterial transformation
- RT-PCR (RNA extraction, Reverse Transcription & quantitative PCR)
- R & Perl Programming Languages
- Bash Unix Shell
- NGS analyses
- Manual Curation, Phylogeny Inference

## PUBLICATIONS

Papapostolou, K. M., Riga, M., **Charamis, J.**, Skoufa, E., Souchlas, V., Ilias, A., Zimmer, C., Dermauw, W., Ioannidis, P., Van Leeuwen, T., Vontas, J. (2020). Striking multiple-insecticide resistance in a *Tetranychus urticae* field population from Greece. *Under submission*.

## POSTER PRESENTATIONS IN CONFERENCES

Panagiotopoulou\*, D., Bantounas\*, A., **Charamis\***, J., Arvanitis, N., & Pappas, K. M. (2019). 'Construction and study of a species-specific shuttle vector for the biofuel-producing *Zymomonas mobilis*', 8<sup>th</sup> Conference of the Scientific Society “MikroBioKosmos”, Institute of Chemical Engineering Sciences, FORTH, Patras, 18-20 April 2019. **\*equal contribution**

**Charamis, J.**, Panagiotopoulou, D., Bantounas, A., Arvanitis, N., & Pappas, K. M. (2018). 'Construction and study of a species-specific shuttle vector for the biofuel-producing *Zymomonas mobilis*', 15<sup>th</sup> International Symposium “Horizons in Molecular Biology”, Max Planck Institute for Biophysical Chemistry, Göttingen, 10th-13th September 2018.

## CONFERENCES & SEMINARS

Hellenic Bioinformatics 12/2019: Precision Medicine, Biodiversity & Genome Biology, FORTH, Heraklion, Crete, 11-13 October 2019.

Onassis Lectures in Biology and Chemistry: Genome Editing, FORTH, Heraklion, Crete, 8-12 July 2019.

Insect-Pathogen Interactions and Vector-Borne Diseases: A Symposium to Honour the Memory of Fotis Kafatos, FORTH, Heraklion, Crete, 25 September 2018.

Horizons in Molecular Biology 2018 Symposium, Max Planck Institute for Biophysical Chemistry in Goettingen, Germany, 10-13 September 2018.

7<sup>th</sup> Conference of the Scientific Society “MikroBioKosmos”, Athens, 7-9 April 2017.

6<sup>th</sup> Conference of the Scientific Society “MikroBioKosmos”, Athens, 3-5 April 2015.

## **OTHER ACTIVITIES**

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| 2019-now              | Participation in the Emblematic Action ‘Routes of Vineyards’, Project: 'Update of Databases (by incorporating data for all enemies of vine from all over Greece)'  |
| 2019-now              | Member of the American Society for Microbiology (ASM)  |
| 2018-now              | Member of the Scientific Society “MikroBioKosmos”  |
| 07.03.2017-30.03.2017 | Participation in student laboratory practicals (Molecular Cloning Series) of the undergraduate course ‘Biotechnology’  |
| 2016-2017             | Participation in EraNet Research Program 'Z-Fuels' (2016-2019), Project: 'Construction of alternative vectors for gene expression, expression and overexpression the metabolic expansion of the ethylated <i>Zymomonas mobilis</i> ' |