

## PERSONAL INFORMATION

## Apostolos Malatras

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## WORK EXPERIENCE

03/12/2018–Present

## Research Associate

Molecular Medicine Research Center, University of Cyprus, Nicosia (Cyprus)

- Develop bioinformatic algorithms and pipelines for Genomic analyses
- Establish and administer bioinformatic services and databases

15/01/2018–30/11/2018

## Research Associate (Biobank admin)

Ulster University, Clinical Translational Research and Innovation Centre (C-TRIC), Derry/Londonderry (United Kingdom)

- Bio-databank admin and data manager
- System admin (Linux RHEL, CentOS)
- Galaxy server admin, multi-NGS data manager
- Omic data analyses: transcriptomics (microarrays with R), proteomics (Scaffold 4, MaxQuant, Perseus and R) and Genomics (Galaxy)

18/07/2011–30/09/2013

## Master's student - External Collaborator

Biomedical Research Foundation, Academy of Athens, Athens (Greece)

- Developed bioinformatic algorithms for laboratory necessities
- Collaborated with other laboratories (Basic research)
- Teaching assistant for the Microarray courses of MSc Bioinformatics at University of Athens, Faculty of Biology (May 2012, May 2013. Designed and assisted the lab courses)

## EDUCATION AND TRAINING

01/10/2014–13/12/2017

## PhD in Bioinformatics/Systems Biology

EQF level 8

Joint PhD at the Myograd international training group for myology between:

Sorbonne Universités - University Pierre and Marie Curie (Paris, France), Center for Research in Myology, INSERM UMRS975, CNRS FRE3617 &amp; Freie Universität (Berlin, Germany), Max Delbrück Center for Molecular Medicine, Muscle Research Unit, Experimental and Clinical Research Center (ECRC)

Thesis title: "Bioinformatics tools in the systems biology of dysferlin deficiency"

- Bioinformatics, Computational Biology, Systems Biology, Transcriptomics, Proteomics, Microarray analysis, Database development, Web development, Visualization, Gene Set Enrichment Analysis.

10/10/2010–18/07/2013

## MSc in Bioinformatics

EQF level 7

University of Athens, Faculty of Biology, Athens (Greece)

The dissertation was elaborated in the Biomedical Research Foundation of the Academy of Athens (BRFAA)

Dissertation title: "Database Development of Reprocessed DNA Microarray Data and Identification of the Most Representative Samples"

- Biology, Bioinformatics, Genomics, Proteomics, Transcriptomics, Microarray Analysis, SQL

Database Development, Research Methodology

10/10/2004–15/02/2010

**BSc in Computer Science and Biomedical Informatics**

EQF level 6

University of Central Greece, Lamia (Greece)

Dissertation title: "**Computational Intelligence Applications in DNA Microarrays**"

- Biology, Informatics, Biomedicine, Bioinformatics, Computer Science

PERSONAL SKILLS

Mother tongue(s) Greek

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Michigan Examination for the Certificate of Proficiency in English (ECPE)					

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
 Common European Framework of Reference for Languages

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

- Linux admin (RHEL, CentOS)
- Good knowledge of mathematic and statistic softwares (Matlab, R)
- Excellent knowledge of programming languages (C, PHP, Perl)
- Good knowledge of parallel algorithm patterns using joint MPI - CUDA in large scale computing clusters (Programming language CUDA C)
- Good knowledge of SQL database management systems (PostgreSQL, MySQL, MariaDB)
- Websites / Online tools / Databases: <https://www.sys-myo.com>, <https://www.sys-myo.com/myominer>, <https://www.sys-myo.com/cellwhere>, <http://biobank-informatics.bioacademy.gr/coexpression>, <http://bioinformatics.biol.uoa.gr/LepChorionDB>

Driving licence B

ADDITIONAL INFORMATION

- Military service completed (Served in special forces as raider - signaller)

Publications

- Defour, A., Medikayala, S., Van der Meulen, J.H., Hogarth, M.W., Holdreith, N., **Malatras, A.**, Duddy, W., Boehler, J., Nagaraju, K., and Jaiswal, J.K. (2017). *Annexin A2 links poor myofiber repair with inflammation and adipogenic replacement of the injured muscle*. Hum Mol Genet 26, 1979-1991.
- Wang Z, Monteiro CD, Jagodnik KM, Fernandez NF, Gundersen GW, Rouillard AD, Jenkins SL, Feldmann AS, Hu KS, McDermott MG, Duan Q, Clark NR, Jones MR, Kou Y, Goff T, Woodland H, Amaral FM, Szeto GL, Fuchs O, Schüssler-Fiorenza Rose SM, Sharma S, Schwartz U, Bausela XB, Szymkiewicz M, Maroulis V, Salykin A, Barra CM, Kruth CD, Bongio NJ, Mathur V, Todoric RD, Rubin UE, **MalatrasA**, Fulp CT, Galindo JA, Motiejunaite R, Jüschke C, Dishuck PC, Lahl K, Jafari M, Aibar S, Zaravinos A, Steenhuizen LH, Allison LR, Gamallo P, de Andres Segura F, Dae Devlin T, Pérez-García V, Ma'ayan A (2016). *Extraction and analysis of signatures from the Gene*

*Expression Omnibus by the crowd*. Nat Commun 7, 12846.

- Thorley, M., **Malatras, A.**, Duddy, W., Le Gall, L., Mouly, V., Butler Browne, G., and Duguez, S. (2015). *Changes in Communication between Muscle Stem Cells and their Environment with Aging*. J Neuromuscul Dis 2, 205-217 (\* co-first authors ).
- Zhu L\*, **Malatras A\***, Thorley M, Aghoghogbe I, Mer A, Duguez S, Butler-Browne G, Voit T, Duddy W. (2015). *CellWhere: graphical display of interaction networks organized on subcellular localizations*. Nucleic Acids Res 43, W571-575 (\* co-first authors ).
- Giannopoulos, N.G., Michalopoulos, I., Papandreou, N.C., **Malatras, A.**, Iconomidou, V.A., and Hamodrakas, S.J. (2013). *LepChorionDB, a database of Lepidopteran chorion proteins and a set of tools useful for the identification of chorion proteins in Lepidopteran proteomes*. Insect Biochem Mol Biol 43, 189-196.
- Michalopoulos, I., Pavlopoulos, G.A., **Malatras, A.**, Karelis, A., Kostadima, M.A., Schneider, R., and Kossida, S. (2012). *Human gene correlation analysis (HGCA): A tool for the identification of transcriptionally coexpressed genes*. BMC Res Notes 5, 265.

#### Presentations

- *Array Academy: A reprocessed Affymetrix GeneChip microarray repository*. **Apostolos Malatras** and Ioannis Michalopoulos at the 8th Conference of the Hellenic Society for Computational Biology and Bioinformatics - HSCBB13 (22-24 November 2013, Lamia, Greece)
- *Phyloprune: An algorithm for automated tree pruning*. **Apostolos Malatras** and Ioannis Michalopoulos at the 7th Conference of the Hellenic Society for Computational Biology and Bioinformatics - HSCBB (4-6 October 2012, Heraklion, Crete, Greece)

#### Conferences attended

- MyoGrad Summer School for Myology. Paris, 6-10 June 2017
- MyoGrad Summer School for Myology. Berlin, 13-17 June 2016
- 5<sup>th</sup> International Congress of Myology. Lyon, France, 14-18 March 2016
- 7<sup>th</sup> Dysferlin Conference (Jain Foundation). Toronto, Canada, 4-7 November 2015
- 10<sup>th</sup> Conference of the Hellenic Society for Computational Biology and Bioinformatics – HSCBB15. Athens, Greece, 09-11 October 2015
- MyoGrad Summer School for Myology. Versailles, Paris, 15-19 June 2015
- Regulation and dysregulation of skeletal muscle growth. MyoGrad GK1631 and KFO192 retreat. Schwanenwerder, Berlin, 14-16 December 2014
- 8<sup>th</sup> Conference of the Hellenic Society for Computational Biology and Bioinformatics – HSCBB13. Lamia, Greece 22-24 November 2013
- 7<sup>th</sup> Conference of the Hellenic Society for Computational Biology and Bioinformatics - HSCBB12. Heraklion, Crete, Greece, 4-6 October 2012
- 2<sup>nd</sup> Protein Summer School "Protein: from the gene to the structure and more...". Athens, Greece, 18-20 May 2012
- 6<sup>th</sup> Conference of the Hellenic Society for Computational Biology and Bioinformatics – HSCBB11. Patras, Greece, 7-9 October 2011