

Dr Dimitrios P. Vlachakis

BSc, MSc, MPhil, PhD, MRSB (UK), MRSC (UK), MRSM (UK)

Assistant Professor in Genetics, AUA



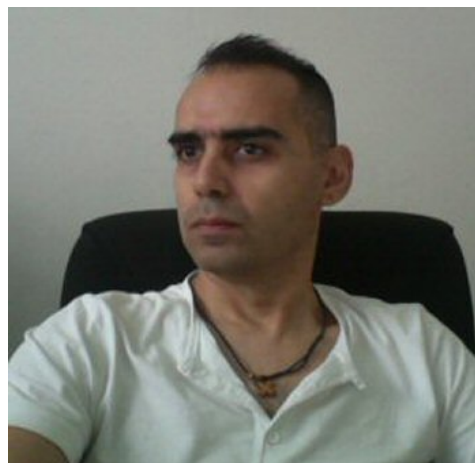
Curriculum Vitae

August, 2019



About me:

Asst. Professor **Dimitrios P. Vlachakis** (MSc, MPhil, PhD, MRSC, MRSB, FGS) leads the Dark DNA (Genetics & Computational Biology) group at the Genetics Laboratory (headed by Prof. Elias Eliopoulos) at the Biotechnology Dept of the Agr. University of Athens. He is a medical biochemist with postgraduate, doctoral and postdoctoral studies in the eminent fields of genetics, epigenetics, evo-devo, medicinal chemistry and drug discovery. Dimitris is also appointed as an Affiliated Researcher / Group Leader at the Clinical, Experimental Surgery & Translational Research Unit of the Biomedical Research Foundation of the Academy of Athens. Moreover, Dimitris holds a



Visiting Scholar post at the Faculty of Natural and Mathematical Sciences at King's College London as well as an Adjunct Investigator post at the Qatar Genome Programme (QGP) at Sidra Medical & Research Center, Doha, Qatar (joint collaboration with Prof George P Chrousos). Since 2012 Dimitris has been serving as the Editor in Chief of the Journal of Molecular Biochemistry and as the deputy editor in chief for EMBnet journal. He was recently elected as the P&PR PC chair of EMBnet. To date, Dimitris has published more than 120 original peer-reviewed articles, 10 ISBN books, 3 scientific patents and has been on the receiving end of numerous grants and awards.

About my group:

I lead the Genetics & Computational Biology Group. We are part of the Genetics Laboratory, Biotechnology Dept at the Agricultural University of Athens.

Our research interests revolve around three distinct, yet intersecting, areas: i) The functional role of long non-coding RNAs, ii) Stress mechanisms and homeostasis via nuclear receptors & iii) Computational and molecular virology. How life began and what drives evolution? How can it be that more than 60% of the human genome is of viral origin? We now know that viruses have seriously influenced the course of life on our planet and that retro-transposable elements in some species make up the majority of their genome.

We develop and apply our research to a repertoire of scientific domains. Namely, we have been investigating the role of nuclear receptors in gene expression and regulation and in particular the role of the glucocorticoid receptor in stress. Then, we look into the realm of viruses and in particular into the ssRNA family of flaviviridae and ebola virus for the investigation of the genetic elasticity of viral genomes (antigenic drift/shift) and how epigenetics could annihilate current vaccination protocols. Finally, recently, we have embarked onto the very fascinating field of neurodegeneration, with the genetic and structural study of LRRK2.

In our lab we use a wide spectrum of methodologies ranging from state-of-the-art bioinformatics, molecular modelling and hypercomputing pipelines to traditional genetic and biochemistry in vitro and in vivo techniques. On one hand, we have developed our own software for machine learning, deep learning and data mining for multimodal fusion of information from genetic, structural and physicochemical analyses. On the other hand, we use DNA engineering, SDM, cloning, expression and protein purification techniques to biologically test and evaluate the validity and reliability of our models.

PERSONAL DETAILS

Name: **Dimitrios P. Vlachakis**
 Position: **Assistant Professor in Genetics**

Lab/ University: **Genetics & Computational Biology Group
 Genetics Laboratory
 Biotechnology Department
 School of Applied Biology and Biotechnology
 Agricultural University of Athens**

Work Address: 75 Iera Odos, 11855, Athens, Greece
 Telephone Work: +30 2105294323
 Birthplace: Exarchia, Athens
 Nationality: Hellenic
 Marital status: Magical, with Konstantina & Anna (wife & daughter)
 Military Service: Completed

Email: dimvl@aua.gr
 Website Group: <http://darkdna.gr>
 Website Lab: <http://geneticslab.gr>

CURRICULUM VITAE OVERVIEW

* BSc Honors Degree in Biology and Biochemistry	page. 4
* MSc in Molecular Modelling and Quantum Mechanics	page. 4
* PhD in Genetics and Antiviral Drug Design	page. 4
2 PostDoctoral Fellowships in Genetics and Bioinformatics	page. 6
2 Monography Articles	page. 14
2 Book Chapters	page. 28
3 International Patents	page. 29
5 Grants as Principal Investigator	page. 7
5 PhD Students under my Supervision	page. 10
8 Monography Books	page. 27
11 H-index based on Scopus	page. 25
15 Genetics and Bioinformatics Software Tools	page. 30
16 Published Conference Proceedings	page. 38
16 H-index based on Google Scholar	page. 25
31 Invited Speaker at Conferences	page. 35
64 Published Articles in PubMed	page. 14
110 Published Peer - Reviewed Articles in International Journals	page. 14
349 Citations based on Scopus	page. 25
775 Citations based on Google Scholar	page. 25

DIGITAL CV

My full CV can be found online at: <http://darkdna.gr> All material is interactive with links to my published articles, books, citations and tools to download.

FULL CV can be provided upon request: Please contact me at: dimvl@aua.gr

welcome to the...

dark DNA group

VISIT our WEBSITE at: darkdna.gr