

Anastasia S. Politou is an Associate Professor of Biological Chemistry at the Ioannina University, Faculty of Medicine and an affiliated faculty member of FORTH-IMBB-BR. She holds a B.Sc. in Chemistry from the University of Athens, Greece and M.Sc. and Ph.D. degrees in Chemistry from New York University, USA. She worked as a post-doctoral fellow in the Structural Biology and Biocomputing Program of the European Molecular Biology Laboratory (EMBL) from 1991 to 1996. From 1996 to 1999 she was a Visiting Associate Professor in the Chemistry Dept., University of Crete and in 2000 a Senior Research Fellow, Medical Research Council, National Institute for Medical Research, Mill Hill, London, UK. Since 2001 she has been a faculty member of the University of Ioannina. A.S. Politou has published 44 research articles (app. 2500 citations, *h-index*:28). Her group is active in the areas of Computational/Structural Epigenetics and Transcriptomics. The group has been extensively involved in modeling and structural analysis of protein complexes, in bioinformatics analysis of DNA and protein sequences and in the analysis and evaluation of high-throughput gene expression data. Ongoing research focuses on different aspects of epigenetic regulation and aims at characterizing the structural determinants and dynamics of chromatin-related proteins and protein complexes. Anastasia Politou has trained or collaborated with more than 30 diploma students, graduate students and post-docs. Several of them are now Faculty or permanent personnel in Research Centers and Academic Institutions in Greece and abroad.

Over the years, Anastasia Politou has established and managed several tools and facilities that have been widely used by several teams in Greece and abroad. These include the establishment and management of the first High Resolution NMR facility in Greece (University of Crete) and of the Circular Dichroism and Fluorescence Spectroscopy facility at the University of Ioannina and IMBB-BR. The latter have been included in the National Research Infrastructure Program INSPIRED recently funded by the Greek state. The lab has also generated cDNA clones for several TUDOR, chromo-, SH3 and PHP protein domains that have been used by other groups, as well as stable lines of somatic and embryonic stem cells that over-express wt and mutated LBR and lamin A. In collaboration with members of the Department of Computer Science and Engineering, UoI, the group has set up an integrated platform-the only one available in Ioannina- for processing and bioinformatics analysis of microarray and transcriptomics data. A. Politou is the coordinator of the Ioannina team in the national (ELIXIR-GR) and the European consortium (ELIXIR-EU) that supports the biological data and management infrastructure ELIXIR. She has been serving as an Associate Editor for the journal *Frontiers in Molecular Biosciences* and reviewing manuscripts for major journals, including *JBC*, *JMB*, *Biochemistry-USA*, *PLoS One*, *PLoS Computational Biology* etc. She has also evaluated grant proposals from several funding agencies, including Hellenic Ministry of Education/EU, General Secretariat for Research and Technology, NSRF, "KARATHEODORI" Foundation, University of Basilicata, Hellenic Foundation for Research and Innovation, State Scholarship Foundation, has participated in the organizing committees of 8 national and international conferences in Molecular Biology and Biochemistry, Structural Biology and Bioinformatics, has attracted research funding as PI, co-IP or Partner from 20 national and international organizations and has been invited as a speaker in 14 international conferences and several Universities and Research Centers.

Publication list

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