Dr Giorgos Gouridis

Principal Researcher

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Dr. Giorgos Gouridis is a Principal Investigator (Researcher, B grade) at the Institute of Molecular Biology and Biotechnology at FORTH (IMBB-FORTH) and has an additional appointment as the Scientific Director of the Proteomics facility at IMBB (ProFI). He received the BSc (2009) with honors in Agricultural Biotechnology from the University of Udine (Italy). He holds an MSc (2005) and PhD (2009) in Protein Biotechnology/Biochemistry from the University of Crete (Greece). He obtained an EMBO Long-term post-doctoral fellowship (2011, EU) and subsequently an NWO post-doctoral grant (2013, The Netherlands) to continue his cross-disciplinary training in single-molecule biophysics at the University of Groningen (The Netherlands; 2012-2016) and LMU (Germany; 2016-2018) by joining the single-molecule biophysics unit headed by Prof. Antoine van Oijen (Groningen), and advised by Prof. Thorben Cordes (Groningen and Munich). His research focused in combining molecular biology, biochemical and biophysical tools to address critical and diverse biological processes: protein trafficking, solute transmembrane transport and protein synthesis. The results of his research obtained in different scientific environments (Greece, Netherlands, Germany, Belgium) have been published in the highest caliber journals of different publishers (he features as a main author in Nature, Cell, Molecular Cell, Nature Structural and Molecular Biology, Cell reports, PNAS, etc.). Subsequently, he obtained a Rega Institute post-doctoral grant (KU Leuven) to set-up his research team as a junior group leader (2018-2020). He joined IMBB-FORTH on September 2020, leading the laboratory of Dynamic Structural Biology. His research activities focus to elucidate the structure-function-evolution relationships in protein biopolymers by monitoring the structural dynamics during folding and the native ones triggered by the association of proteins with ligands and/or with other biopolymers. The laboratory of Dynamic Structural Biology adopts highly multi-disciplinary experimental and theoretical/computational tools, and for this collaborates closely with the sister FORTH Institutes of Applied and Computational Mathematics (IACM), Electronic Structure and Lasers (IESL) and Computer Science (ICS).