

## EMMANUEL SARIDAKIS

12/2021 (ORCID: 0000-0003-0724-5425)

### Personal data

Full name: Emmanuel-Eleutherios George Saridakis  
Place/ date of birth: Brussels, 2-7-1970  
Nationality: Greek

### Studies (highest degree first)

- 1995: Doctor of Philosophy (Ph.D.) in Biophysics - Crystallography.  
Physics Department, Imperial College London, United Kingdom
- 2000: Master of Science in the Philosophy and History of Science (with Distinction):  
Department of Philosophy, Logic and the Scientific Method; London School of Economics and Political Science (LSE), University of London, United Kingdom
- 1991: Bachelor of Science in Physics, 2:1 Honours.  
Physics Department, Imperial College London, United Kingdom

### Awards

- Le Studium (Loire Valley Institute for Advanced Studies) – Marie Curie Research Fellow 2017-8, at the Centre de Biophysique Moléculaire, Centre National de la Recherche Scientifique (CNRS), Orléans, France.
- Honorary Research Fellow, Faculty of Medicine, Imperial College London (2007-2018).
- Imré Lakatos student prize for best Master's thesis (2000)
- Scholarship from the Biotechnology and Biological Sciences Research Council (formerly the S.E.R.C.) for the full duration of Ph.D. studies (1994-1995)

### Present positions:

Researcher B  
(Principal Researcher)                      Laboratory of Supramolecular and Structural Chemistry  
Institute of Nanoscience and Nanotechnology,  
National Centre for Scientific Research "DEMOKRITOS",  
Athens, GREECE (Researcher D , 2008; Researcher C 2013)

Honorary Senior Research Fellow:              Faculty of Medicine, Imperial College London, U.K.

### Other professional activities

- Referee for the Israel Science Foundation, the Biotechnology and Biological Sciences Research Council UK (BBSRC) and the Netherlands Organisation for Health Research and Development (ZonMw).
- Referee for 17 scientific journals, including: Journal of Physical Chemistry, Acta Crystallographica (various sections), Nanotechnology, Biophysical Journal, Journal of the American Chemical Society, Scientific Reports, Nature Chemistry.
- Member of the Board of the International Organisation for Biological Crystallization (IOBCr, 2008-2014) and of the Hellenic Crystallographic Association (HeCrA, 2018-2020)
- Head of the Laboratory of Macromolecular Crystallography at N.C.S.R. "DEMOKRITOS"
- Member of the Research Ethics Committee of N.C.S.R. "DEMOKRITOS" (since 2018)

### Recent funding (selected)

- 2018-present: INSPIRED-EL: "The National Research Infrastructures on Integrated Structural Biology, Drug Screening Efforts & Drug target functional characterization" (**contact point and deputy PI** for NCSR "Demokritos")
- 2014-2018: **Member of the Management Committee** representing Greece at the **COST** Action CM1402: "From molecules to crystals – how do organic molecules from crystals (crystallize)"
- 2013-2015: General Secretariat for Research & Technology, Bilateral R&T Greece-France cooperation 2013, Project HIAP, "Hydroxamic acid based inhibitors of antigen processing enzymes that regulate immune responses: Design, synthesis, structural elucidation and biological characterization."
- 2008-2012: **Coordinator** of the "Novel Tools for Protein Crystallisation (TOPCRYST)" European Union Project (FP7 – PEOPLE - Marie Curie Industry-Academia Partnerships and Pathways), in partnership with Imperial College London and Farfield Scientific Ltd, Manchester. Budget: 514 k€

### Publications/ Conferences

- 50 papers in international peer-reviewed journals, 1 book chapter, 2 non-specialist books. Overall >2900 citations, h-factor 27 (Google Scholar).
- 30 presentations at international Conferences, of which 3 invited. Invited lecturer at 3 international Workshops. 10 presentations at national Conferences, of which 2 invited. Member of the scientific organisation committees for 4 international Conferences.

### Selected recent publications (5 last years):

1. A. Mpakali *et al.* and **E. Saridakis**. "Crystal structures of ER Aminopeptidase 2 in complex with inhibitors reveal pharmacophore requirements for optimizing inhibitor potency." *ACS Med. Chem. Lett.* (2017) **8**, 333–337.
2. A. Mpakali, **E. Saridakis**, K. Harlos, Karl, Y. Zhao, P. Kokkala, D. Georgiadis, P. Giastas and E. Stratikos. "Ligand-induced conformational change of Insulin-regulated aminopeptidase: insights on catalytic mechanism and active site plasticity." *J. Med. Chem.* (2017) **60**, 2963-2972.
3. C.N. Nanev, **E. Saridakis**, L. Govada, S.C. Kassen, H.V. Solomon and N.E. Chayen. "Hydrophobic interface-assisted protein crystallization: theory and experiment." *ACS Appl. Mater. Interfaces* (2019) **11**, 12931-12940.
4. L.S. Stelzl, D.A.I. Mavridou, **E. Saridakis**, D. Gonzalez, A.J. Baldwin, S.J. Ferguson, M.S.P. Sansom and C. Redfield. Local frustration determines loop opening during the catalytic cycle of an oxidoreductase." *eLife* (2020) **9**:e54661.
5. L. Govada, **E. Saridakis** (co-first author), S.C. Kassen, A. Bin-Ramzi, R.M. Morgan, B. Chain, J.R. Helliwell and N.E. Chayen. "X-ray crystallographic studies of RoAb13 bound to PIYDIN, a part of the N-terminal domain of CC chemokine receptor 5." *IUCrJ* (2021) **8**, 678-683.
6. S. Panagiotakis, **E. Saridakis**, M. Malanga, I.M. Mavridis and K. Yannakopoulou. "A self-locked  $\beta$ -cyclodextrin-rhodamine B spirolactam with photoswitching properties." *Chem.: Asian J.* (2022) **17** (2), e202101282.
7. **E. Saridakis**, R. Vishwakarma, J. Lai-Kee-Him, K. Martin, I. Simon, M. Cohen-Gonsaud, F. Coste, P. Bron, E. Margeat and M. Boudvillain. "Cryo-EM structure of transcription termination factor Rho from Mycobacterium tuberculosis reveals bicyclomycin resistance mechanism." *Commun. Biol.* (2022) **5**, 1-9.
8. **E. Saridakis**, E.M. Kasimati, K. Yannakopoulou and I.M. Mavridis. "A guanidino- $\gamma$ -cyclodextrin superdimer generates a twin receptor for phosphate dimers assembled by anti-electrostatic hydrogen bonds." *Chem. Comm.* (2022) **58**, 5300-5303.