

Dr. Ioannis Gelis

University of South Florida, Department of Chemistry
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Education

Ph.D., University of Athens, Greece and University of Florence, Italy 01/2001 - 07/2004

Structure and function of the metalloproteins plastocyanin and calmodulin

M.Sc., University of Hull, UK 09/1998 - 10/1999, *Analytical Chemistry*

B.Sc., University of Leeds, UK 09/1995 - 06/1998, *B.Sc.(Hons), Chemistry*

Research Experience

Research Associate, J.W.-Goethe-University, Frankfurt am Main 08/2009 – 05/2012

Co-translational protein folding and sorting

Research Associate, Rutgers University, New Jersey 09/2004 - 07/2009

Structural, dynamic and thermodynamic analysis of the interaction between the 204kDa translocase motor SecA and its ligands

Appointments

University of South Florida Assistant Professor of Chemistry 2012 - present

Scholarships and Awards

Research Scholarship, 08/2009 – 05/2012, Institute for Organic Chemistry and Chemical Biology, J.W.-Goethe-University of Frankfurt

Marie-Curie Fellowship, NMR in Inorganic Structural Biology 06/2001 - 05/2002, Florence NMR Training Site

Marie-Curie Fellowship, Cross-correlation between the fluctuations of different Interactions: a new avenue for Biomolecular NMR 07/2002 - 06/2003, Florence NMR Training Site

National Secretariat of Research and Technology Fellowship 01/2000 - 01/2001, NCSR Demokritos

Publications

1. Gouridis G., Karamanou S., Gelis I., Kalodimos CG., Economou A., *Signal peptides are allosteric activators of the protein translocase*, **NATURE**, 462, 363 – 367 (2009)

2. Gelis I., Bonvin AM., Keramisanou D., Koukaki M., Gouridis D., Karamanou S., Economou A., Kalodimos CG., *Structural basis for signal-sequence recognition by the translocase motor SecA as determined by NMR*, **CELL**, 131, 756-69 (2007)

3. Karamanou S., Gouridis G., Papanikou E., Sianidis G., Gelis I., Keramisanou D., Vrontou E., Kalodimos CG., Economou A., *Preprotein-controlled catalysis in the helicase motor of SecA*, **EMBO Journal**, 26, 2904-14 (2007)

4. Keramisanou D., Biris N., Gelis I., Sianidis G., Karamanou S., Economou A., Kalodimos CG., *Disorder-order folding transitions underlie catalysis in the helicase motor of SecA*, **Nature Structural and Molecular Biology**, 13, 594-602 (2006)

5. Bertini I., Del Bianco C., **Gelis I.**, Katsaros N., Luchinat C., Parigi G., Paena M., Provenzani A., Zoroddu MA., *Experimentally exploring the conformational space sampled by domain reorientation in calmodulin*, **Proceedings of the National Academy of Science USA**, 101, 6841-6 (2004)
6. Bertini I., **Gelis I.**, Katsaros N., Luchinat C., Provenzani A., *Tuning the affinity for lanthanides of calcium binding proteins*, **Biochemistry**, 42, 8011-21 (2003)
7. **Gelis I.**, Katsaros N., Luchinat C., Piccioli M., Poggi L., *A simple protocol to study blue copper proteins by NMR*, **European Journal of Biochemistry**, 270, 600-9 (2003)