

Chemical biology of lipids and proteins

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Abstract

In recent years, technical and experimental advances have increased our attention to the rapidly expanding field of lipid-protein interactions. Thus, it is now clear that lipids are not only inert structural components of membranes, but they also play a role in many cellular processes through a range of different mechanisms of action. We will cover here some of our efforts to study how lipids regulate protein function.

Biographical sketch



Dr. Gemma Triola gained her Ph.D. from the University of Barcelona in 2004 under the supervision of Profs. G. Fabriàs and A. Llebaria working in synthesis of inhibitors of sphingolipid metabolism. She then moved to the Max Planck Institute of Molecular Physiology in Dortmund and joined the group of Prof. H. Waldmann first as a postdoctoral fellow and then as a group leader. During that time, she worked on the chemical synthesis of lipidated proteins and in the development of methods for site-specific protein modification. Dr. G. Triola returned back to Spain in 2012 and was hired on a permanent position at the Institute of Advanced Chemistry of Catalonia (IQAC, Spanish Research Council (CSIC)). Her current research interests focused on the study of novel bioactive molecules as a possible foundation for drug development, the establishment of methods for protein modification and the characterization of lipid-protein interactions.