

Special Issue

Lipid-Protein and Protein-Protein Interactions in Membranes

Message from the Guest Editors

The application of finer experimental and computational techniques is providing increasing evidence that the structure and function of many membrane proteins are modulated by the surrounding membrane lipids. The mechanisms behind such modulation are diverse and highly complex. For instance, lipid modulation may be exerted directly, through binding of specific lipids to defined binding sites on the membrane protein surface. Alternatively, membrane lipids may segregate domains within the membrane, into which certain proteins partition preferentially or even exclusively and have the chance to find different interacting partners and thus modify their function. This makes cellular membranes key players in cell physiology and important pharmacological targets, as there are hundreds of different integral and peripheral membrane proteins involved in the propagation of signals that regulate cell metabolism, proliferation, differentiation or death. In an attempt to bring together recent advances in this field, José A. Poveda and I will co-edit a Special Issue on this topic. We will be delighted if we could have your contribution to this exciting project.

Guest Editors

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