



Signaling Systems in Membrane-Associated Proteins

Guest Editor:

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Message from the Guest Editor

Biological membranes regulate communication between the external environment and internal compartments. Aside from serving as a barrier, the structure and content of the membrane itself plays a critical role in generating and propagating cellular signals. This issue examines the series of events that occur when extracellular information is received by plasma membrane and how this information generates various cascades of association/dissociation reactions between signaling molecules that lead to specific intracellular events. The articles in this issue focus on signals occurring on the plasma and internal membranes that include enzymes that generate soluble second messengers. Articles will range from the interfacial association between proteins and the membrane surface that drive enzyme reaction dynamics to how cell membranes promote associations between peripheral proteins. Generation and enhancement of lipid signals and discussion of the properties specific to lipid modifying enzymes will be included. Importantly, the ability of these enzymes to communicate with associated signaling networks to drive cell function under normal and transformed conditions will be highlighted.





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Message from the Editor-in-Chief

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