

Special Issue

Biochemical Interaction and Supramolecular Complexes of Receptors in Cell Membranes

Message from the Guest Editors

The intricate interplay of biochemical interactions and supramolecular complexes formed by receptors in cell membranes constitutes a fundamental aspect of cellular metabolic regulation. Receptors detect and respond to various extracellular signals, ensuring proper cellular function and homeostasis. Ligands induce receptor activation supporting receptor–receptor and/or receptor–coreceptor interaction. Oligomerization is widely acknowledged as a fundamental mechanism for activating various types of receptors, including hormone and growth factor receptors, G protein-coupled receptors (GPCRs), lymphokine receptors, T- and B-cell receptors, and other families of cell surface receptors. In response to extracellular stimuli, receptors undergo dynamic modifications in their affinity and persist in the supramolecular complexes state. Consequently, "short-lived complexes" emerge, maintaining a dynamic equilibrium with monomers that freely diffuse within the cellular membrane.

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About the Journal

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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