

Special Issue

Dysregulation of Cyclic AMP and Cyclic PIP Synthesis: Implications for Disease and Advances in Therapeutic Development

Message from the Guest Editor

"The reversible phosphorylation of proteins is a key control mechanism that regulates cellular processes such as metabolism, cell division, neurotransmission". The task of the two intracellular regulators, cyclic AMP and cyclic PIP (prostaglandylinositol cyclic phosphate) is to control the equilibrium between the phospho- and de-phospho-form of key enzymes and, thus, to control the activity of these enzymes. The dysregulation of protein phosphorylation is known/discussed to be related, for instance, to illnesses such as Alzheimer's disease, chronic inflammatory diseases, cancer, and type-2 diabetes. Generally, we divide the signal transduction into three levels: First, the receptor to which a hormone or neurotransmitter binds; then second, the point of interest of this Special Issue, the synthesis of intracellular regulators, which spread the signal inside the cell; and third the resultant regulatory changes. The goal of the Special Issue is to combine newer research results related to the topic of broken signal transduction in this publication.

Guest Editor

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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