

Special Issue

Eph Receptors and Ephrins

Message from the Guest Editors

Eph receptor tyrosine kinases and their ephrin ligands mediate unique bidirectional signaling that is a major form of contact-dependent communication between cells. For over 30 years, extensive research has revealed many of the underlying molecular mechanisms in Eph/ephrin signaling and how it directs both developmental processes and adult physiology. Nevertheless, major questions remain, including the details of the Eph/ephrin assembly into large signaling clusters, the precise mechanisms of signaling termination, the molecular mechanisms and biological significance of the cross-talk between different Eph family members, and the context-dependence of the signaling, where the same ligand/receptor interactions can elicit diametrically opposite outcomes. This Special Issue will publish research papers and review articles that cover innovative and multidisciplinary approaches to bring about a better understanding of the cellular and molecular mechanisms of Eph/ephrin signaling in health and disease.

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