Special Issue

Signaling and Organelle Polarization at the Immunological Synapse

Message from the Guest Editors

The immunological synapse (IS) is a specialized transient cell–cell junction that mediates lymphocyte activation and effector function following antigen recognition. The outcome of IS formation depends on a finely tuned polarization of signaling molecules and cellular organelles. Over the last 20 years, we have learned that proper signaling and organelle polarization are tightly interdependent. Early signaling networks that are reorganized upon initial antigen scanning trigger the polarization of different organelles, including the endosomal compartment, cytoskeleton structures, and mitochondria. In turn, organelle polarization sustains activating signals for full lymphocyte activation and supports effector function. Nonetheless, the complete set of signaling and cell machinery regulators mediating IS assembly and T cell activation is still not known and the reciprocal regulation of signaling and organelle dynamics is not fully understood. This Special Issue aims to present the latest findings on cell polarity, which mediates T cell activation and effector function.

Guest Editors

Dr. Pedro Roda-Navarro

Department of Immunology, Ophthalmology and ORL, Complutense University and "12 de Octubre" Health Research Institute, 28040 Madrid, Spain

Prof. Dr. Cosima T. Baldari

Department of Life Science, Universita degli Studi di Siena, Siena, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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Prof. Dr. Maurizio Battino
Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

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