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Plasma Membrane Dynamics and Signaling

Guest Editor:

Dr. Yi-Nan Gong
1. Hillman Cancer Center, UPMC, Pittsburgh, PA 15232, USA
2. Department of Immunology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261, USA

Deadline for manuscript submissions:
closed (15 August 2021)

Message from the Guest Editor

Dear Colleagues,

The easiest way to characterize programmed cell death is probably by the dynamic changes of the plasma membrane—lytic cell death and non-lytic cell death (apoptosis). Lytic cell death can be mediated by molecules such as MLKL (necroptosis) or gasdermin family proteins (pyroptosis). Lipid oxidation can also lead to plasma membrane lysis (ferroptosis). At the same time, repair mechanisms such as ESCRT machinery can counterbalance the loss of plasma membrane integrity. All these mechanisms together shape a unique consequence to each distinct form of cell death. Besides plasma membrane integrity change, the translocation of lipid components such as phosphatidylserine also contributes to defining the physiological outcomes of programmed cell death.

This Special Issue aims to summarize the current knowledge on programmed cell death and its biological consequences, which are usually determined/modulated by plasma membrane dynamics.

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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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Contact Us

Cells Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/cells
cells@mdpi.com
𝕏@Cells_MDPI