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Protein Mono-ADP-Ribosylation in the Control of Cell Functions

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Deadline for manuscript submissions:
closed (31 December 2020)

Message from the Guest Editors

Dear Colleagues,

Mono-ADP-ribosylation of proteins was discovered over 50 years ago. Later, it was found that higher eukaryotes possess homologs of one major clade of toxins, the Clostridium toxin-like ARTC enzymes, that have extracellular activities. Homologs of the second major clade of toxins, the diphtheria toxin-like ARTD enzymes are instead represented in the cytosol and nuclei of eukaryotic cells, and are responsible for both poly- and mono-ADP-ribosylation of targets.

The new millennium and especially the past few years, the definition of novel pathways driven by MARylation—from the RNA regulation to the control intracellular transport—along with the identification of specific inhibitors, will likely have an important impact on cell biology research, with potential applications for the treatment of diseases.

This Special Issue will give a timely view of the field of mono-ADP-ribosylation. Contributions by expert laboratories will present methods, tools, and functional advances.

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Message from the Editorial Board

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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