Special Issue

Polyamine Metabolism in Disease and Polyamine-Targeted Therapies

Message from the Guest Editor

Polyamines are ubiquitous polycations essential for all cellular life. The most common polyamines in eukaryotes, spermine, spermidine, and putrescine, exist in millimolar intracellular concentrations that are tightly regulated through biosynthesis, catabolism, and transport. Polyamines interact with, and regulate, negatively charged macromolecules, including nucleic acids, proteins, and ion channels. Accordingly, alterations in polyamine metabolism affect cellular proliferation and survival through changes in gene expression and transcription, translation, autophagy, oxidative stress, and apoptosis. Dysregulation of these multifaceted polyamine functions contribute to multiple disease processes, thus their metabolism and function have been targeted for preventive or therapeutic intervention.

Guest Editor

Dr. Tracy Murray-Stewart Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins University, Baltimore, MD 21287, USA

Deadline for manuscript submissions

closed (30 November 2017)



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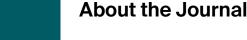


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Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Antoni Torres

1. Institut D investigacions August Pi I Sunyer (IDIBAPS), Department of Pulmonology, Hospital Clinic de Barcelona, Universidad de Barcelona, 08036 Barcelona, Spain

2. Centro de Investigación Biomédica en Red en Enfermedades Respiratorias (CIBERES), Instituto de Salud Carlos III, 28029 Madrid, Spain

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