

Special Issue

Stem Cells and Signaling Pathways in Pulmonary Biology

Message from the Guest Editor

Pulmonary biology integrates stem cell research with the study of signaling pathways, providing new opportunities for regenerative medicine, disease modeling, and therapeutic development. In recent years, studies have revealed that diverse pulmonary stem/progenitor populations play central roles in lung development, homeostasis, repair, and regeneration, while the dysregulation of pathway cascades such as Wnt, Notch, TGF-beta, Hippo, and Hedgehog underpins a range of pulmonary pathologies, from fibrosis and COPD to lung cancer. This Special Issue invites original research, comprehensive reviews, and brief communications that advance our understanding of the crosstalk between stem cells and signaling networks in pulmonary contexts. Topics of interest include, but are not limited to, the following: the identification and characterization of novel lung stem/progenitor cells; mechanistic insights into signaling modulation during regeneration or injury; the interplay between multiple pathways in determining cell fate decisions; modeling disease via organoids or in vivo systems; and translational strategies harnessing stem cells and pathway targeting for repair or cancer therapy.

Guest Editor

Dr. Bingqiang Wen

Phoenix Children's Research Institute, Department of Child Health,
College of Medicine Phoenix, University of Arizona, Phoenix, AZ, USA

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

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Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona
Institute of Science and Technology, 08028 Barcelona, Spain

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