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Calcium Signaling Derangement and Disease Development and Progression

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Message from the Guest Editors

Calcium (Ca^{2+}) signaling delivers the spatial and temporal signals necessary to control and regulate various cell types. In particular, cytosolic Ca^{2+} serves as a universal second messenger that not only regulates such processes as autophagy and apoptosis, but also influences cell division/growth and gene expression. Recent evidence suggests that abnormal Ca^{2+} signaling is a hallmark of many disorders, including: neurodegenerative disorders, such as Alzheimer's disease, Parkinson's disease, amyotrophic lateral sclerosis and Huntington's disease; cardiac disease; schizophrenia and bipolar disorder; and lung infection and diseases such as cystic fibrosis and lung cancer.

This Special Issue welcomes submissions of original research articles, reviews and short communications focusing on Ca^{2+} signaling dysregulation and disease, in particular mechanisms underlying potential pathology and disease development, ranging from altered cell signaling and immune cell function to potential population-based studies.



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