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Gene Fusions and Chimeric RNA in Cancers and Complex Diseases

Guest Editor:

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Deadline for manuscript submissions:

closed (15 February 2022)

Message from the Guest Editor

The special issue provides the most updated methods and observations in gene fusions and chimeric RNAs for their functional characterization and role in different cancer types. The issue will describe chimeric RNAs as transcripts combining two distinct parental genes and characterized by the unique junction sites. The unique observations for chimeric RNAs and fusions will be explored at all the levels as chromosomal translocations, trans-splicing, and production of fusion proteins. We will emphasize the unique techniques for the identification and characterization through bioinformatics tools, as well as the experimental validation using RT-PCR, mass spectrometry techniques for the fusion protein validation, and more.

We will incorporate articles on the functional as well as mechanistic studies of chimeric RNAs and translational applications in modern Genomics and Personalized Therapy techniques. The issue will provide most advance topics in fusions, chimeric RNAs and their protein products. The issue will guide the field of Cancer Research as well as complex diseases.



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Special Issue



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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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