# Special Issue

# Gene Expression and Regulation during Embryonic Development

### Message from the Guest Editors

Embryonic development is a complex process in which changes in cell expression programs will determine different cell lineages from zygote to embryo. In females, the crosstalk between the corpora lutea and the endometrium plays a key role in embryonic, pre-implantation, and fetal stages. During the embryonic stage, the precise sequence of genomic events that determine the coordinated cell fate and tissue development still remains unknown. This Special Issue aims to shed light on most recent discoveries on how gene expression programs are in synchrony among individual cells, leading to the successful implantation process. Manuscripts on regulation of gene expression, including changes in the transcriptome and the epigenome in the embryo and endometrial tissues will be invited in this Special Issue. A particular focus on single-cell omics and multiomics will be considered, as well as other novel technologies that are advancing our understanding in the temporal and spatial organization of developmental cues.

### Guest Editors

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### Deadline for manuscript submissions

closed (20 February 2022)

**Applied Sciences**

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Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/65801

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## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Editor-in-Chief

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