

Preface

As we are reaching the third decade of 21st century, understanding how genomes may function within cells, and how molecular and cellular diversity may be key to development, adaptation and aging is a major challenge in biology, disease research and technology. In 2019, the Editors of Current Genomics welcome submissions that cover topics related to this challenge such as single cell sequencing for resolving molecular identity and cell fate in space and time, new machine learning frameworks for analyzing highly dimensional molecular profile data, new technologies for genome editing, cell reprogramming and whole-organism studies, and studies of layers of molecular regulation (*e.g.* epigenetics, gene regulation, proteomics, metabolomics) and multiple cell regulation systems (*e.g.* cell-to-cell communication systems) for developing personalized medicine and prevention. We are greatly looking forward to working with a multi-disciplinary community of researchers on the challenges associated with the development of high-definition biology and precision medicine.

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