Special Issue

Microfluidics System and Its Application in Single Cell Analysis

Message from the Guest Editors

Single-cell analysis techniques based on the microfluidics system have become a powerful tool. This field has increased the sensitivity, accuracy, and throughput of traditional single-cell analysis methods. Single-cell sequencing methods based on the microfluidics system have enabled rapid genome-wide analysis of thousands of single cells within one experiment. These cutting-edge methods have allowed us to profile cells at unprecedented resolutions and numbers, thus building a complete human cell atlas. Such database would inform us of the fundamental features of each cell type and provide insights into the changes and underlying mechanisms behind embryonic development. The microfluidics system also contributes to human tumor atlases, deciphering this complex issue involving a high degree of heterogeneity among different cell populations and their interactions.

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