

More Massive Data for Single Cell Informatics and Next Generation Drug Discovery

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Recent drug discovery is shifting to the hiPS cell-based strategy, where human cells are used as experimental tools, expecting to minimize investment on unreliable data obtained by animal studies. To establish the hiPS cell-based medicine, however, various issues such as QC, standardization, data management, ethics, etc. have to be considered. Moreover, scientifically, we still do not know how many cells exist in our body and how many remain undiscovered yet. Recently, high-throughput single cell analysis methods have emerged and will be one of the hopes to solve many of these questions. Obviously, we will face more massive data obtained from millions of single cells in the next generation of drug discovery.