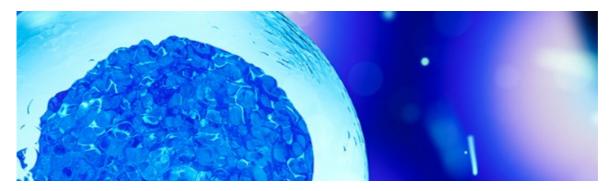


<u>nature</u> > <u>experimental & molecular medicine</u> > collection

**Collection** 15 September 2020

## [Special Feature] Single Cell Genomics

Technical advancements in single-cell genomics have improved our understanding of molecular and genetic regulation. All cell types in the human body can now be characterized using single-cell multi-omics analyses, which help uncover the complex genetic and epigenetic regulatory mechanisms and indicate cellular interactions within tissues. Now, as single-cell research moves toward clinical implementation, it is being incorporated in diagnostic and therapeutic measures for precision medicine. This special issue in single-cell genomics provides a comprehensive view of the current technological status and the future perspectives and applications of single-cell analysis.



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## Single-cell genomics technology: perspectives

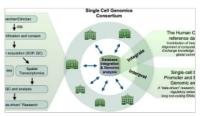
Tae Hee Hong & Woong-Yang Park

Editorial Open Access 15 Sep 2020 Experimental & Molecular Medicine

### **Review**

## An era of single-cell genomics consortia

Yoshinari Ando, Andrew Tae-Jun Kwon & Jay W. Shin



Review Article | Open Access | 15 Sep 2020 | Experimental & Molecular Medicine

## <u>Single-cell sequencing techniques from individual</u> <u>to multiomics analyses</u>

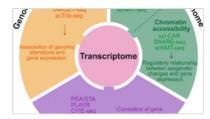
Yukie Kashima, Yoshitaka Sakamoto ... Ayako Suzuki

	٠.	Omormani
Technology	Microfluidic plate	Microfluidic droplet
Number of cells per sample	96/800 cells A limited number of cells depending on C1 IFC	500 -10,000 cells Alarge number of cells
Number of read per cell	100 -1,000 million reads Uniform among cells	5000 -10,000 reads Diverse among cells
Sequencing	Full-length (96 cells)	3'-end
Cell size	5-25 µm Depending on C1 IFC	<40 µm
Sequencing library	Separate Can resequencing the user's selected cells.	Mixed
	For individual cells	For individual cells

Review Article Open Access 15 Sep 2020 Experimental & Molecular Medicine

## <u>Single-cell multiomics: technologies and data</u> <u>analysis methods</u>

Jeongwoo Lee, Do Young Hyeon & Daehee Hwang



Review Article Open Access 15 Sep 2020 Experimental & Molecular Medicine

# Human Cell Atlas and cell-type authentication for regenerative medicine



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