



# OE Biotech

## Leading the way in plant single-cell spatiotemporal multi-omics

Single-cell transcriptome, Spatial transcriptome, Spatial metabolome

Uncover the mysteries of single-cell and spatial level genes and metabolism contained in plant growth, development, and differentiation processes.



### OE Biotech Plant Single-Cell:

Year	Published in	IF	Title	Species	Type	Technology
2024	<i>Developmental Cell</i>	11.8	The soil emergence-related transcription factor PIF3 regulates root penetration by interacting with the receptor kinase FER	Arabidopsis	Root	Single-cell transcriptome
2023	<i>Molecular Plant</i>	27.5	Single-cell transcriptomic analysis reveals the developmental trajectory and transcriptional regulatory networks of pigment glands in <i>Gossypium bickii</i>	Cotton	Cotyledon	Single-cell transcriptome
2023	<i>Nature Communications</i>	16.6	Spatial transcriptomics uncover sucrose post-phloem transport during maize kernel development	Maize	Corn kernel	Spatial transcriptome
2023	<i>Plant Communications</i>	10.5	Combining single-cell RNA sequencing with spatial transcriptome analysis reveals dynamic molecular maps of cambium differentiation in the primary and secondary growth of trees	Poplar	Stem tip	Single-cell metabolome Spatial metabolome
2023	<i>Environmental and Experimental Botany</i>	5.7	Visualized analysis of amino acids and organic acids in wheat caryopsis in response to multigenerational effects of elevated atmospheric CO <sub>2</sub> concentration	Wheat	Caryopsis	Spatial metabolome
2020	<i>Molecular Plant</i>	27.5	Global Dynamic Molecular Profiling of Stomatal Lineage Cell Development by Single-Cell RNA Sequencing	Arabidopsis	Leaf	Single-cell transcriptome

### Advantages of OE Biotech spatiotemporal multi-omics

310+

Customers  
Articles

80%

Acknowledgements

15

Authors  
Signed

50.3

Highest IF

Dual-Functional  
in Chem...

3 single-cell transcriptome: 10X Genomics, BD Rhapsody, MobiNova  
 4 spatial transcriptome: 10X Genomics Visium, CytAssist, Xenium, BGI spatiotemporal omics  
 2 spatial metabolome: Waters SYNAPT XS, AFADESI

