



# In-depth cooperation cases: Spatial multi-omics collaboration helps publish *Nature Genetics* (IF: 30.8)

Transcriptome, proteome, metabolome, spatial transcriptome,  
spatial metabolome, single-cell transcriptome

## A New Start:

Spatial multi-omics reveals new subtypes and new diagnosis and  
treatment systems for clear cell renal cell carcinoma

nature genetics



Article

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## Multi-omic profiling of clear cell renal cell carcinoma identifies metabolic reprogramming associated with disease progression



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## Article Highlights

- The first large cohort study of clear cell renal cell carcinoma (ccRCC) integrating conventional multi-omics and spatial multi-omics;
- A new subtype of ccRCC, dedifferentiated clear cell subtype ccRCC (DC-CD-ccRCC) was proposed, which has unique immune, metabolic and clinical characteristics;
- A new molecular classification and treatment system for ccRCC was established, which provides high guidance value for the diagnosis, surgery and drug administration of renal cancer and even personalized precision medicine.

## In-depth cooperation: OE Biotech is one of the author's signed units

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