

MGI Tech and NCSTAR sign MoU to explore bringing multi-omics infrastructure in Australia

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With accelerated access to leading-edge spatial and multi-omics technologies



MGI Australia, the local Australia and New Zealand (ANZ) team of MGI Tech, has entered a Memorandum of Understanding (MoU) with QIMR Berghofer's National Centre for Spatial Tissue and AI Research (NCSTAR).

Coordinated through NCSTAR, this MoU forms part of MGI's global DCSP Lab Initiative. It aims to provide Queensland's wider research community with accelerated access to leading-edge spatial and multi-omics technologies and fast-track translation of spatial biology into disease understanding and clinical insight.

NCSTAR and its collaborating Queensland research groups will be able to trial and access MGI's DCSP multi-omics framework at the MGI Australia and New Zealand Customer Experience Centre (MGI ANZ CEC) on campus, accelerating its uptake in Queensland research and translational clinical application.

Key technologies within the framework at MGI ANZ CEC include:

- **DNBSEQ™ sequencing (DNA genomics)**
- **Elab C-series single-cell platform (Cell Omics)**
- **Stereo-seq (STOmics)**
- **VisiOmics multiplex immunofluorescence platform (Proteomics)**

Because MGI Australia already operates the MGI ANZ CEC at QIMR Berghofer as a tenant of the Institute, new technologies can be evaluated and trialled against local sample types, workflows and research needs. This gives NCSTAR and its collaborating Queensland research groups early data and pilot results to validate a technology, providing an important foundation for future project design and implementation.

The MoU also includes technical training and knowledge exchange between NCSTAR and MGI's local team, deepening NCSTAR researchers' expertise in spatial omics data generation and analysis. NCSTAR intends to share that expertise with the broader Queensland research community through its existing collaborations and networks, and the partnership creates a pipeline for joint projects, publications and grant applications.