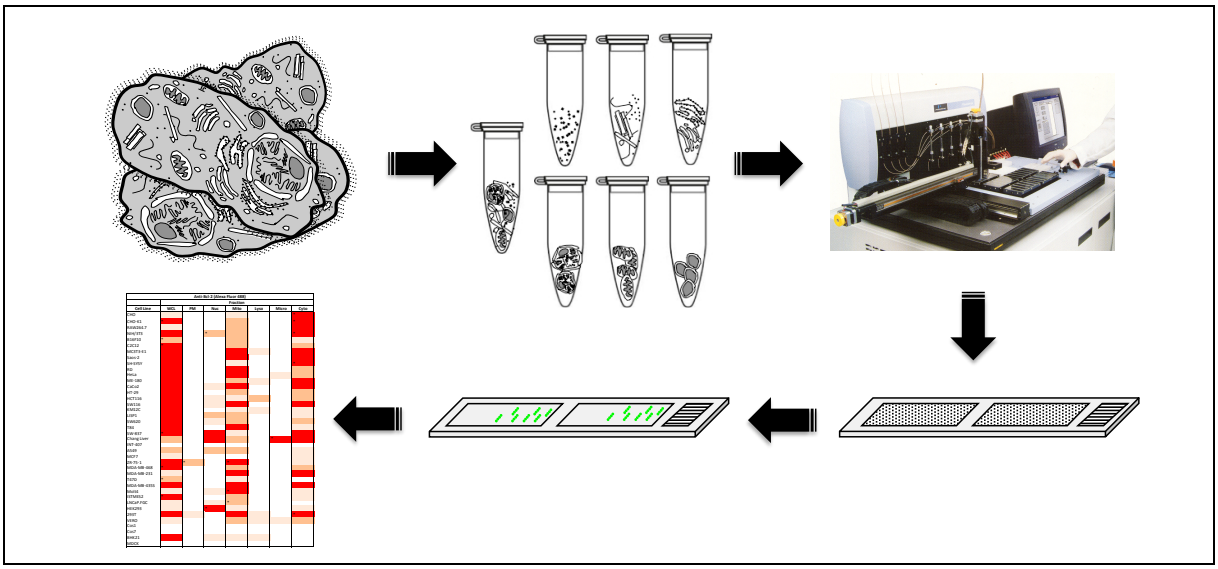
Griffith UNIVERSITY
Queensland, Australia

CellFrac Array



CellFrac Arrays

The cellular fractionation (CellFrac) array developed at the Institute for Glycomics at Griffith University is a significant improvement on existing reverse phase protein arrays (RPPA). RPPA's have been around for about a decade, but have only been effectively used to screen for cancer markers. The CellFrac array is a considerably more flexible platform technology that can be adapted for a range of other applications, including host-pathogen interactions, pathogen sub-cellular targeting, toxin sub-cellular targeting, antibody validation and targeting, drug sub-cellular targeting, miRNA sub-cellular targeting, and anti-cancer peptide localisation.

The Technology

We have developed and validated a prototype CellFrac array comprising seven distinct sub-cellular fractions from each of 40 different cultured cell lines, immobilised onto a glass microarray slide.

Griffith has generated significant preliminary proof-of-concept data with the prototype CellFrac array, and standard operating protocols have been established that deliver consistent outcomes.

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We have shown that we are able to:

- Isolate distinct sub-cellular fractions from cultured cells with little or no cross-contamination;
- Print and immobilise these distinct fractions at defined concentrations onto glass microarray slides with very good spot morphology;
- Use CellFrac arrays to replace traditional cell-based binding assay systems; and
- Investigate complex biological interactions in a way previously not possible.

The CellFrac array is currently being utilised in significant research collaborations.

The Team

Dr Joe Tiralongo leads the CellFrac array program and is a Research Leader at the Institute for Glycomics (Griffith University, Gold Coast, Queensland, Australia). He is supported by Dr Chris Day and a team of research scientists.

Intellectual Property

The technology has been developed at Griffith University and Griffith has full rights to this technology. The CellFrac arrays are produced using know-how that is kept confidential. We will offer appropriate access to this secret know-how as required by a commercial partner.

The Offer

Griffith University is seeking partners interested in taking the CellFrac array to the market.

Point of Contact

Interested parties are encouraged to contact Mr Ujjwal Dua, Business & Innovation Manager (Life Sciences), Griffith Enterprise.

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Griffith Enterprise is the commercialisation and technology transfer office of Griffith University. We help organisations to access the specialist expertise, research capabilities, inventions and knowledge based products and services of Griffith University. Our staff have commercial experience and understand the needs of industry and government partners. We offer flexible and tailored engagement terms, and a professional approach to doing business with the University. From lawyers and designers to engineers and scientists, we have it covered.