Serving Australian Innovation - National Research Infrastructure for the MedTech & Pharma Industry

Access to world-class research infrastructure is critical to support high quality R&D activities and to improve Australia's overall innovation output. The National Collaborative Research Infrastructure Strategy (NCRIS) was established to provide cutting-edge instruments, facilities and expertise to enable public and private research activities. The NCRIS facilities and their experts can be accessed by Australian SMEs to solve business problems and facilitate the development of new products and services.

This workshop will provide you with a rare opportunity to engage simultaneously with five NCRIS facilities highly relevant for the MedTech and Pharma sector, to introduce their unique capabilities and how they can be accessed and to solve business R&D problems. The workshop will include five (5) twenty-five (25) minute presentations, followed by a Q&A session.

The five (5) facilities that will be presenting their capabilities and expertise are as follows:

Australian National Fabrication Facility (ANFF)

ANFF provides micro and nano-fabrication facilities for Australian R&D. It can offer quick and easy access to facilities, professional services or academic collaborators, for the fabrication of prototype biomedical devices, such as:

- Microfluidics & point-of-care diagnostics
- Biomaterials and 3D printing
- Drug delivery
- Bionics

The presentation will outline some of the areas of world leading research into medical devices being pursued in ANFF facilities, how to access collaborators in those fields, and the range of facilities around Australia available to companies to conduct their own R&D.

Australian Phenomics Network (APN)

APN provides tools and animal models to support the large-scale systematic study of gene function that is critically important in the dawning era of precision medicine. Serving the fields of health genomics, basic biology, and clinical studies, phenomics enables the discovery of links between mutations and disease that will lead to new therapies.

APN provides access to a package of cutting-edge technologies including:

- The production of unique mice as new disease models
- Genetically describing mouse models through DNA sequencing
- Systematically defining mouse models
- Providing open access storage through biobanking
- Curation and sharing of scientific data

Therapeutic Innovation Australia (TIA)

TIA enables researchers to translate health discoveries into clinical applications through providing access to facilities and expertise. TIA supports the development and manufacture of small molecules, proteins and cell therapies. It also provides quality documents (www.iqdocs.org) and services including preclinical testing, molecular pathology and biostatistics.

Bioplatforms Australia

Bioplatforms Australia builds research capabilities and expertise in the specialist fields of genomics, proteomics, metabolomics and bioinformatics. They enable Australian life science research by investing in state-of-the-art infrastructure and collaborative research projects that build 'omic datasets relevant to Australian scientific challenges. Their infrastructure is available to researchers from both academia and industry.

Their capabilities include, but are not limited to:

Genomics:

- Next generation sequencing, including human whole genome sequencing
- Genotyping/SNP analysis
- Transcriptomics, Epigenomics, Metagenomics

Proteomics:

- Mass Spectrometry
- Liquid Chromatography
- Amino acid analysis

Metabolomics:

- Metabolite analysis
- Lipidomics
- Fluxomics

Bioinformatics:

- Comparative genomics
- Data analysis
- Data integration and network biology

National Imaging Facility (NIF)

National Imaging Facility (NIF) is an Australian-wide collaborative network of imaging infrastructure that provides world-class imaging technologies and highly specialized expertise to research communities & industries. NIF provides access to state-of-the-art imaging capability of human, animals, plants, and materials and supports SMEs with Project Design Consultation including advice on most appropriate technologies

- Animal Handling and Ethics
- Optimisation of Image Acquisition parameters,
- Data Analysis & Interpretation
- Data management and curation

State Government Representatives will also be in attendance to present State-based Grants & Assistance Programmes targeting MTP sector SMEs in relevant States.

Presenters

Dr. Warren McKenzie
Australian National Fabrication Facility

Dr. Michael Dobbie
Australian Phenomics Network

Dr. Stewart Hay
Therapeutic Innovation Australia

Dr. Ellen van Dam
Bioplatforms Australia

Prof. Graham Galloway
National Imaging Facility

Dates and Venues

All events run from 9:00am to 1:00pm

Melbourne - 1st September, 2016

Seminar Room 2, Lv 7
Monash Conference Centre
30 Collins Street, Melbourne CBD, 3000

Brisbane - 13th September, 2016

Seminar room 2007

Translational Research Institute

37 Kent Street, Woolloongabba, 4102

Adelaide - 23rd September

Bragg1 Room

BioSA Conference Centre

40 West Thebarton Road, Thebarton, 5031

Sydney - 17th October

Department of Premier and Cabinet Building

52 Martin Place, Sydney CBD, 2000

RSVP

48hrs prior to each event commencement

Places are limited

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National Imaging Facility
THERAPEUTIC INNOVATION AUSTRALIA
Accelerating Research Outcomes
ANFF
apn australian phenomics network