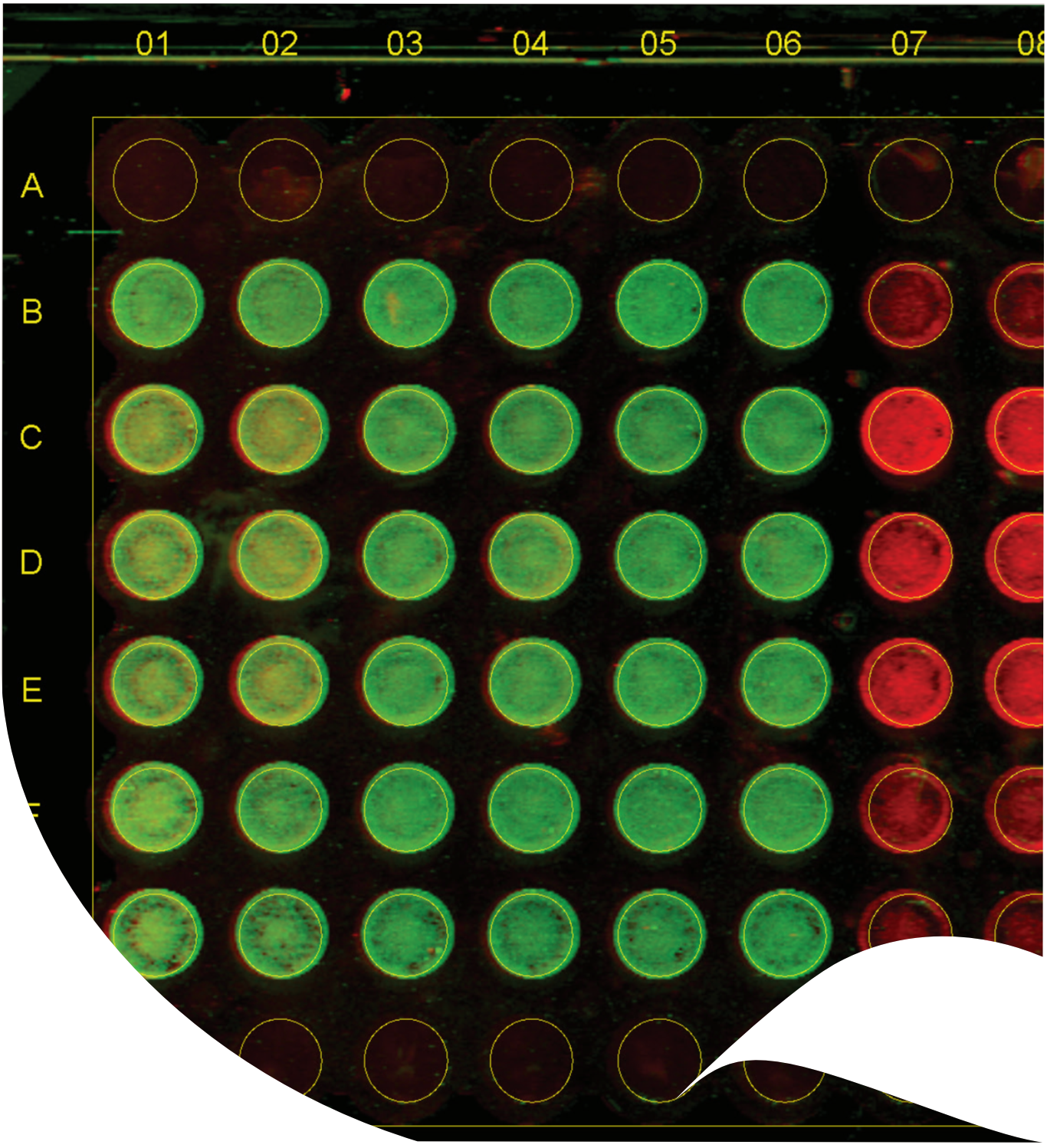
THE UNIVERSITY OF QUEENSLAND
AUSTRALIA

CREATE CHANGE

Biomedical Sciences

Core Research Facility – Analytical



Flow Cytometry

Becton Dickinson LSR Fortessa X-20 Cell Analyser

Multicolour cell analyser with four lasers allow you to analyse up to 15 different parameters at once from fluorescently labeled samples. Our remote access computing platform allows you to analyse even the most complex datasets from anywhere in the world with internet access using FlowJo software.

Advanced Analytics

Agilent Seahorse XFe96

Next generation metabolomics analyser to measure mitochondrial respiration and glycolysis in cellular or *ex vivo* samples. Glycolysis, stress testing, drug injection and dose-response capabilities, with real-time label free detection.

Magpix Luminex Bioanalyser

Bead-based multiplexing assay unit with the ability to run up to 50 protein based assays (such as ELISAs) in a single reaction volume.

Clinical Chemistry

A number of different platforms to analyse clinical and preclinical samples from both humans and animals are available, including:

Cobas Integra 400, 400 samples per day with 120 different assays available for different samples such as blood, serum, urine, etc.

Fuji DRI-CHEM 7000i, an innovative multi-purposed biochemistry analyzer proving 29 parameters (26 colorimetry + 3 electrolyes), even in small blood volumes.

Mythic 18 Vet haematology analyser, fully automated 18 parameter, 10 species, multi-sample, small volume.

Spectrophotometry

BMG CLARIOstar Plus, a multimode microplate reader with advanced LVF Monochromators, temperature controlled, highly sensitive filters, and an ulta-fast UV/VIS Spectrometer. Fully flexible wavelengths and bandwidths, enhance dynamic range and automatic focus technologies. Dedicated laser for Alpha Technology.

TECAN Spark multimode reader for absorbance, fluorescence, time resolved fluorescence, FRET, TR-FRET, fluorescence polarization, luminescence, Alpha Screening, automated live cell imaging and cell counting and confluence, temperature controlled, ELISA, BRET and nanoBRET, protein quantification, and DNA/RNA quantificaitons.

Molecular and General Analysis

PerkinElmer Tri-Carb 4910TR Scintillation counter
PerkinElmer Wallac WIZARD2 Gamma counter
SPECTROstar Nano Absorbance reader
BioRad ChemiDoc M4 Imager
LI-COR Odyssey CLx Imager
TECAN Freedom EVO Robotic Pipetting System
TECAN HydroSpeed 96-well plate washer
QuantStudio6 & 7 Fast 96 & 384-well qPCR system
BioRad Digital Droplet PCR System

Centrifuges

Beckman Avanti J-26S XPI
Beckman Optima XPN 100k Ultra
Beckman MAX-XP Tabletop Ultra

The School of Biomedical Sciences Core Research Facility

The School of Biomedical Sciences Core Research Facility - Analytical specialises in a multitude of different applications to further accelerate your research. With flow cytometry, clinical chemistry, molecular biology and advanced analytical equipment all in the same facility, you can easily broaden your approach to tackling the hardest and most pressing scientific questions that arise from your research. Whether you are a clinician, neuroscientist, biologist or an engineer, we can provide you with the necessary training and support to extract high quality, reproducible and reliable data.

Contact

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