

QIMR BERGHOFER, BRISBANE

What is NATA?

Why seek accreditation?

National Association Testing Authorities



Increasingly required for clinical trials



Confidence to users and clients



Data quality & integrity



Flow Cytometry & Imaging Facility Who are we? QIMR Berghofer, Brisbane





What do we have?



Instrumentation

Analysers:

- ▶ 2 x Cytek Auroras
- ▶ 4 x BD Fortessas
- ► 1x AMNIS
- ► 1x ATTUNE

Cell Sorting:

- ► ThermoFisher Bigfoot Spectral cell sorter
- ▶ BD FACS Aria IIIu
- Beckman Coulter MoFlo XDP

Services Provided

"Normal" SRL activities:

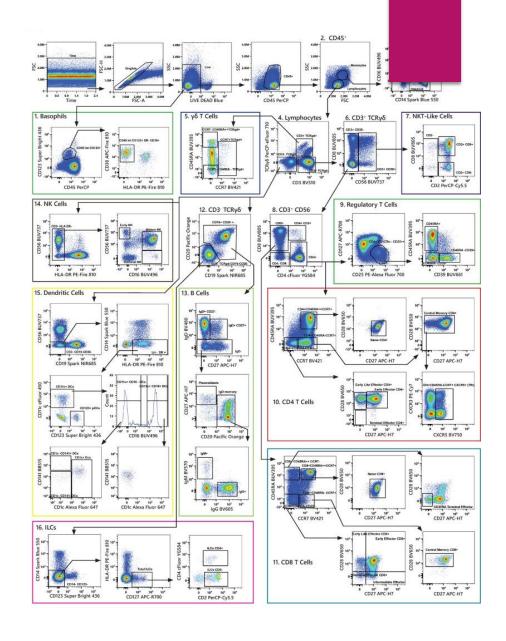
- Training & Education
- Assisting internal researchers
- Cell sorting

"Extended" activities:

- Full service provision for internal researchers
- Contract clinical trial work
- Facility staff all have a PhD and have had active research careers

Full Service Provision

- Panel design
- Panel validation and optimization
- 3. Sample preparation & staining
- 4. Sample acquisition
- 5. Data Analysis



Our Scope of Accreditation: ISO/IEC 17025

- ▶ **PROCESS:** Immunophenotyping by flow cytometry.
 - ▶ **Any** flow assay on **any** instrument

QIMR Berghofer Scientific Services

ISO/IEC 17025 (2017)

Healthcare, Pharmaceutical and Media Products

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE
Analysis in support of clinical trials and/or pre-clinical studies	Animal biological samples; Human biological samples	Cell characterisation, identification and isolation	Flow cytometry - Immunophenotyping

JUGGLING





Available Time

Challenges

- Time to perform lab work
- Scientific reading needed for the work
- Meetings often are more frequent need more preparation (minutes etc.)
- Report writing
- Deadlines are not as fluid

Addressing the Challenges

- QMS streamlines processes
- Templates
- Some facility staff remain largely dedicated to internal research usage
- Automated QMS system coming on board!



Staffing

Challenges

- More specific training for each project not necessarily just more hands
- Staffing needs for unknown external clients are harder to predict

Addressing the Challenge

- Dedicated Quality Co-Ordinator
- Dedicated Quality Manager
- Institute 'buy in' means more staff to be hired



<u>Shared</u> Resource Lab = <u>Shared</u> Space

Challenges

- Shared main lab space, instruments, and instrument reagents
- Internal users are not required to be familiar with our QMS

Addressing the Challenge

- Restricted access to our clinical room
 - Sample preparation
 - Reagent storage
- High training standards
- Facility staff oversight



<u>Shared</u> Resource Lab = <u>Shared</u> Instruments

Challenges

Shared instruments

Addressing the Challenge

- CAPA process: monitoring of equipment performance is proactive
 less down time
 - Quality Assurance Program (RCPAQAP)
- in mediately prior to accredited use of an instrument



Summary of benefits of becoming NATA accredited







Rewarding to see results

\$ Visibility of service





Thank you!

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