



Patient Centred Pathology

AACB 2023

AACB 60th Annual Scientific Conference
17-19 October 2023
Royal ICC, Brisbane QLD

AACB CHROMATOGRAPHY MASS SPECTROMETRY SATELLITE MEETING

Friday 20 October 2023

0830

Welcome

0845-0945

Session 1: Opening Plenary - Prof Stefan Wudy

Clinical relevance of old and new steroid hormone pathways

0945-1015

Morning Tea, Industry Displays & Posters

1015-1200

Session 2: TDM - New and emerging assays

1. **Dr Andrew Burke** - New frontiers in therapeutic drug monitoring - tuberculosis and cystic fibrosis
2. **Dr Menino (Os) Cotta** - Therapeutic Drug Monitoring in Special Population Groups: Focus on beta-lactams antibiotics in critical illness
3. **Ms Amy Legg** - Taking drug concentrations from the lab to the bedside
4. **Prof Brian Keevil** - Salivary cortisone and the HPA axis

1200-1300

Lunch, Industry Displays & Posters

1300-1430

Session 3: Selected Orals

Sponsored by PM Separations



1. **Dr Berit Packert Jensen** - Salivary cortisol and cortisone by 2D-LC-MS/MS
2. **Dr Rui Zhang** - High sensitivity LC-MS/MS 18-steroid panel assay for better diagnosis and management of congenital adrenal hyperplasia
3. **A/Prof Michelle Hill** - Serum glycoprotein biomarkers for ovarian cancer diagnosis and screening
4. **Dr Ameline (Xin Ying) Lim** - Advancements in the detection of localised breast cancer by lipidomic signature directly from plasma
5. **Dr Bobby Li** - Development and validation of glycated albumin by electrospray ionisation time-of-flight mass spectrometry
6. **Mr Darren Allen** - LC-QTOF-MS identification of novel markers of bleach adulteration in urine drug screening

1430-1500

Afternoon Tea, Industry Displays & Posters



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1500-1630

Session 4: The role of MS in neonatal monitoring

1. **Prof Stefan Wudy** - Disorders of sex development - GCMS and LCMSMS advantages and challenges
2. **Dr Suzanne Parker** - The role of microsampling in neonatal monitoring
3. **Mr Monish Kumar** - Optimising newborn screening for congenital adrenal hyperplasia by inclusion of 21-deoxycortisol in LC-MS/MS testing.
4. **Dr Tony Huynh** - An Endocrinologist view

1630-1730

Networking Drinks & Posters

1930-2200

Optional Dinner at Ciao Papi, Howard Smith Wharves.

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Saturday 21 October 2023

0900-0905	Welcome to day 2
0905-1000	Session 5: Plenary - Dr Elizabeth Jenkins Forensic Toxicology: overview, recent trends, and cases
1000-1030	Morning Tea, Industry Displays & Posters
1030-1200	Concurrent Sessions

Session 6: Method Development

1. **Prof Brian Keevil** - Method development: general aspects
2. **Dr Lesley Johnston** - High-accuracy mass spectrometry reference methods
3. **Ms Tamantha Harrower** - Lab perspective of TDM
4. **Ms Rebecca Swenson** - Steroids & challenges encountered

Session 7: Clinical Toxicology

1. **Mr Darren Allen** - A curious case of confounding codeine chromatograms
2. **Ms Helen Martin** - Medicinal Cannabis – highly challenging for the laboratory
3. **Mr Tim Smith** - Developments in mass spectrometry technology (toxicology)
4. **Dr Katherine Isoardi** - A fatal overdose of novel psychoactive substances: what we see in the Emergency.

1200-1300	Lunch, Industry Displays & Posters
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1300-1500

Concurrent Sessions

Session 8: Education Workshop & Lab tours

This is a session where you will rotate between lab visits, cases and SPE sample preparation.

1. 30min tours of the Mass Spectrometry Unit in the Department of Chemical Pathology, Pathology Queensland, RBWH. Equipment includes Tandem and Single Quad mass spectrometers, GC-MS, QToF, ICP-MS and UPLC chromatography systems.
2. **Prof Brian Keevil & Prof Stefan Wudy** - Challenging clinical cases
3. **Mr Nigel Simpson & A/Prof Ronda Greaves** – SPE Sample Preparation

Session 9: Workplace Testing

1. **Mr Tim Smith** – "Draft" AS/NZS 4308:2023 Standard - what to expect and how to prepare
2. **Mr Tim Smith** – Accreditation - the quick guide of what to do and why
3. **Mr Peter Graham** - RCPAQAP: Interpretation of on-site urine and oral fluid toxicology reports
4. **Mr Chris Cruickshank** - Sample adulteration - common patterns, ways to deal with it

1500-1530

Afternoon Tea, Industry Displays & Posters

1530-1630

Session 10: Closing Plenary - Prof Brian Keevil

The future of mass spectrometry

1630-1640

Presentation of Prizes and Close of proceedings

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