

Contribution ID: 198 Type: Oral

Chemical Crystallography at the Australian Synchrotron MX Beamlines

Thursday, 24 November 2016 14:30 (15)

The macromolecular (MX) beamlines at the Australian synchrotron are mixed use between the structural biology and chemical crystallography (CX) communities. Since commissioning the high throughput MX1 bending magnet and the MX2 microfocus undulator beamlines have proven very successful for both communities.

With the transfer of the Australian Synchrotron under ANSTO as recognition as its importance as landmark infrastructure for Australia and the federal government has committed to the future funding of the synchrotron for an addition 10 years. MX2 is in the process of completing the purchase, delivery and implementation of a state of the art Eiger detector (Structural Biology laboratories and Australian Cancer Research Foundation) and is well situated to continue to benefit both communities.

It is fair to say that transitioning MX2 to the new generation of single photon counting detectors is going to be a game changer with data collection speeds increased at least ten fold. As such, the ability to handle an increase in sample numbers sample tracking through to automated methods of data analysis are currently under development.

What is the future for chemical crystallography at the MX beamlines? A review of the current developments that are underway and some discussion of what may lie in the future will be presented.

Keywords or phrases (comma separated)

MX, synchrotron, chemical, crystallography, methods

Are you a student?

No

Do you wish to take part in</br>
the Student Poster Slam?

No

Are you an ECR? (<5 yrs</br>since PhD/Masters)

No

What is your gender?

Male

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Session Classification: Concurrent Session 2: Structural Biology I - Sponsored by DECTRIS

Track Classification: Structural Biology