

# **ITAU2020 - Advanced light sources for medical and life science imaging and analysis**



## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# **Bragg coherent diffractive imaging and crystallography: opportunities and challenges**

*Monday, April 6, 2020 9:00 AM (30 minutes)*

**Presenter:** Dr ABBEY, Brian (La Trobe University, Melbourne, Australia)

**Session Classification:** Coherent Diffractive Imaging

Contribution ID: 2

Type: **not specified**

## **Fast-demagnetization and four wave mixing processes witnessed using FERMI seeded-FEL**

*Monday, April 6, 2020 10:30 AM (30 minutes)*

**Presenter:** Dr CAPOTONDI, Flavio (Elettra Sincrotrone Trieste)

**Session Classification:** X-ray imaging and analysis with advanced light sources

Contribution ID: 3

Type: **not specified**

## **From development to application: Simultaneous X-ray fluorescence and ptychography comes of age**

*Monday, April 6, 2020 11:00 AM (30 minutes)*

**Presenter:** Dr JONES, Micheal (Queensland University of Technology)

**Session Classification:** X-ray imaging and analysis with advanced light sources

Contribution ID: 4

Type: **not specified**

## **Soft X-ray microscopy imaging at TwinMic: recent results**

*Monday, April 6, 2020 11:30 AM (30 minutes)*

**Presenter:** Dr GIANONCELLI, Alessandra (Elettra Sincrotrone Trieste)

**Session Classification:** X-ray imaging and analysis with advanced light sources

Contribution ID: 5

Type: **not specified**

## **In Situ Ptychography for Materials Characterisation**

*Monday, April 6, 2020 12:00 PM (30 minutes)*

**Presenter:** Dr VAN RIESSEN, Grant (La Trobe University)

**Session Classification:** X-ray imaging and analysis with advanced light sources

Contribution ID: 6

Type: **not specified**

## Compact Light Source Opportunities for Australia

*Monday, April 6, 2020 2:30 PM (30 minutes)*

**Presenter:** Dr GARRETT, Richard (ANSTO, Lucas Heights, Australia)

**Session Classification:** FEL technology and novel light sources

Contribution ID: 7

Type: **not specified**

## **Compton scattering, compact and exotic light sources**

*Monday, April 6, 2020 3:00 PM (30 minutes)*

**Presenter:** Dr DI MITRI, Simone (Elettra Sincrotrone Trieste)

**Session Classification:** FEL technology and novel light sources



Contribution ID: 8

Type: **not specified**

## **Using a high repetition rate hard X-ray FEL for imaging. Probably arrive late on Monday, leave late Tuesday**

*Monday, April 6, 2020 3:30 PM (30 minutes)*

**Presenter:** Dr MANCUSO, Adrian (European XFEL, Hamburg and La Trobe University, Melbourne, Australia)

**Session Classification:** FEL technology and novel light sources

Contribution ID: 9

Type: **not specified**

## **Recent developments of imaging x-ray detectors at Elettra**

*Monday, April 6, 2020 4:30 PM (30 minutes)*

**Presenter:** Dr MENK, Ralf H. (Elettra Sincrotrone Trieste)

**Session Classification:** Imaging Detectors

Contribution ID: **10**

Type: **not specified**

## **Detectors for medical imaging with x-rays**

*Monday, April 6, 2020 5:00 PM (30 minutes)*

**Presenter:** Dr HALL, Chris (Australian Synchrotron, ANSTO, Melbourne)

**Session Classification:** Imaging Detectors

Contribution ID: 11

Type: **not specified**

## **Imaging beamline at the Australian Synchrotron and breast CT setup**

*Tuesday, April 7, 2020 9:00 AM (30 minutes)*

**Presenter:** Dr HAUSERMANN, Daniel (Australian Synchrotron, ANSTO, Melbourne)

**Session Classification:** Beamlines and projects for medical imaging

Contribution ID: 12

Type: **not specified**

## **New imaging beamline at Elettra 2.0 and breast CT protocol**

*Tuesday, April 7, 2020 9:30 AM (30 minutes)*

**Presenter:** Dr TROMBA, Giuliana (Elettra Sincrotrone Trieste)

**Session Classification:** Beamlines and projects for medical imaging

Contribution ID: 13

Type: **not specified**

## The breast CT project at the Australian Synchrotron

*Tuesday, April 7, 2020 10:00 AM (30 minutes)*

**Presenter:** Dr PEELE, Andrew (Australian Synchrotron, ANSTO, Melbourne)

**Session Classification:** Beamlines and projects for medical imaging

Contribution ID: 14

Type: **not specified**

## **Grat-X project for phase contrast breast imaging**

*Tuesday, April 7, 2020 11:00 AM (30 minutes)*

**Presenter:** Dr STAMPANONI, Marco (Paul Scherrer Institute, Villigen, Switzerland)

**Session Classification:** Phase contrast X-ray imaging with conventional sources

Contribution ID: **15**

Type: **not specified**

**TBD**

*Tuesday, April 7, 2020 11:30 AM (30 minutes)*

**Presenter:** Dr BOSS, Andreas (Medical University of Zurich)

**Session Classification:** Phase contrast X-ray imaging with conventional sources



Contribution ID: **16**

Type: **not specified**

**TBD**

*Tuesday, April 7, 2020 12:00 PM (30 minutes)*

**Presenter:** Dr SECHOPOULOS, Joannis (Radboud University Medical Center, Nijmegen, NL)

**Session Classification:** Phase contrast X-ray imaging with conventional sources

Contribution ID: 17

Type: **not specified**

## **Reducing the number of re-operations in breast conserving surgery through fast, intra-operative phase contrast CT**

*Tuesday, April 7, 2020 12:30 PM (30 minutes)*

**Presenter:** Dr OLIVO, Alessandro (UCL London, UK)

**Session Classification:** Phase contrast X-ray imaging with conventional sources

Contribution ID: **18**

Type: **not specified**

## **Radiological assessment of phase contrast CT images**

*Tuesday, April 7, 2020 3:00 PM (30 minutes)*

**Presenter:** Dr BRENNAN, Patrick (Sydney University, Sydney, Australia)

**Session Classification:** Phase contrast X-ray imaging with synchrotron sources - Part I

Contribution ID: **19**

Type: **not specified**

**TBD**

*Tuesday, April 7, 2020 3:30 PM (30 minutes)*

**Presenter:** Dr BROMBAL, Luca

**Session Classification:** Phase contrast X-ray imaging with synchrotron sources - Part I

Contribution ID: 20

Type: **not specified**

## **SAXS signal in propagation-based phase-contrast breast CT**

*Tuesday, April 7, 2020 4:00 PM (30 minutes)*

**Presenter:** Dr GUREYEV, Tim

**Session Classification:** Phase contrast X-ray imaging with synchrotron sources - Part I

Contribution ID: **21**

Type: **not specified**

**TBD**

*Tuesday, April 7, 2020 5:00 PM (30 minutes)*

**Presenter:** Dr DULLIN, Christian (Goettingen University Hospital)

**Session Classification:** Phase contrast X-ray imaging with synchrotron sources - Part II

Contribution ID: 22

Type: **not specified**

## **Quantitative Coherent X-ray Lung Imaging. Arrive Sunday, leave Wednesday**

*Tuesday, April 7, 2020 5:30 PM (30 minutes)*

**Presenter:** Dr KITCHEN, Markus

**Session Classification:** Phase contrast X-ray imaging with synchrotron sources - Part II