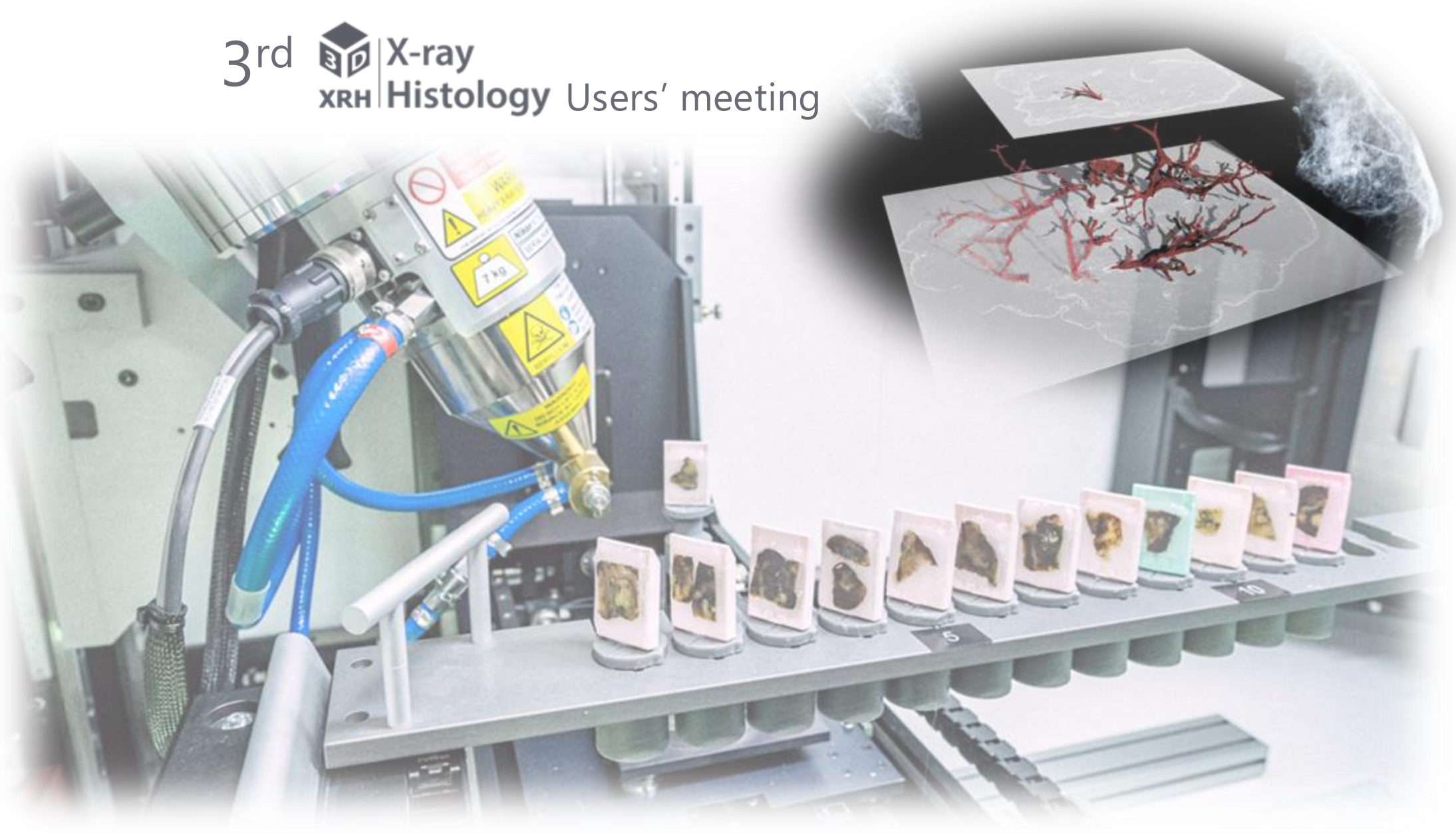
3rd X-ray Histology Users' meeting









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PROGRAMME SUMMARY

LF 8 & 9, Southampton General Hospital, Southampton, UK
09:00-17:00

09:00 – 09:30

Welcome & Introductions

09:30 – 10:30

Session 1 – User talks (Soft tissue)

10:30 – 11:00

Coffee Break

11:00 – 12:00

Session 2 – User talks (Soft / Hard tissue)

12:00 – 12:30

Participant introductions

12:30-13:15

Lunch break

13:15 – 13:45

Session 3 – Poster session & networking

13:45 – 14:45

Session 4 – Other techniques

14:45 – 15:00

Coffee Break

15:00 – 16:00

Session 5 – User talks (Wider)

16:00 – 17:00

Session 6 – Facility update and wrap up.

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Session 1 – User talks (soft tissue)

09:30 - 10:30 (Chair: Phil Basford)

09:30 – 09:50 Davis Laundon - Correlative three-dimensional X-ray histology (3D-XRH) as a tool for quantifying mammalian placental structure

09:50 – 10:10 Jaswinder Sethi - 3D Xray imaging – a powerful tool to quantify ectopic fat

10:10 – 10:30 Jan von der Thusen Micro-CT Imaging of Lung Adenocarcinoma – Biological and Clinical Implications







Session 2 – User talks (soft & Hard)

11:00 - 12:00 (Chair: Katie Dexter)

11:00 – 11:20 Joseph Bell - Integrating microCT and spatial 'omics to create a 3D tissue map of lung fibrosis

11:20 – 11:40 Janos Kanczler - µCT analysis of small & large scale biomaterial constructs to regenerate skeletal tissue

11:40 – 12:00 Claire Clarkin - Resolving sexual dimorphism of the bone vasculature

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Participant Introductions

- Who else is in the room?
- 30 seconds
  - Who are you?
  - Where are you from?
  - What's your research interest?
- Lunch is next
- The poster session follows



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Session 3 – Poster session & networking







Session 4 – Other techniques

13:45 - 14:45 (Chair: Phil Basford)

13:45 – 14:05 Sandro Olivo - Intra-operative specimen imaging with x-ray phase-contrast micro-CT

14:05 – 14:25 Regan Doherty – TEM Tomography

14:25 – 14:45 James Thompson - 3D elemental mapping with SBF-SEM







Session 5 – User talks (Wider)

15:00 - 16:00 (Chair: David Chatelet)

15:00 – 15:20 Ian Simcock - Clinical post-mortem micro-CT scanning service following a pregnancy loss

15:20 – 15:40 Gavin Foster - What Causes Annual Density Banding in Coral Skeletons

15:40 – 16:00 Orestis Katsamenis - Pharmaceutical R&D at the µ-VIS / XRH facility: Structural and Functional Characterisation of 3D Printed Drug Formulation

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Session 6 – Facility Update

16:00 – 17:00

- **Biomedical Imaging Unit** (BIU)
  - Spatial –omics / New SEM / TEM tomo
- **Biomedical Research Facility** (BRF)
- **Histochemistry Research Facility** (HRF)
  - Zn fix
- **X-ray Histology facility** **µ-VIS | BIU**
  - W transmission target
  - Globus
  - Spatial –omics integration
  - Facility paper out – please cite it
  - Future

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Wellcome Open Research

Wellcome Open Research 2023, 8:366 Last updated: 17 JAN 2024

Check for updates

METHOD ARTICLE

REVISED A high-throughput 3D X-ray histology facility for biomedical research and preclinical applications [version 2; peer review: 3 approved, 1 approved with reservations]

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Please cite it if you used the facility !

https://doi.org/10.12688/wellcomeopenres.19666.2

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