



The 13th International Workshop on Microbeam Probes of Cellular Radiation Response

Thursday 14th & Friday 15th September 2017

Education Centre (Dept 17), The Christie, Manchester, M20 4BX

Overview

This international conference will bring together world experts to discuss recent progress in the use of microbeams to investigate the radiation biology underpinning particle therapy and understand the cellular response to radiation

Further information

Visit	www.christie.nhs.uk/SoO
Register	http://IWM2017.eventbrite.co.uk
Email	education.events@christie.nhs.uk
Call	0161 918 7409
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Introduction

This international conference will bring together world experts to discuss recent progress in the use of microbeams to investigate the radiation biology underpinning particle therapy and understand the cellular response to radiation

Course Organisers

Professor Karen Kirkby

Richard Rose Chair for Proton Therapy Physics, The Christie & University of Manchester

Dr Mike Merchant

Lecturer in Proton Therapy Physics
University of Manchester

Programme

- Radiation biology of particle therapy
- Cellular and tissue effects
- Particle therapy research facilities including microbeam facility design & X-ray and Laser microbeams
- Clinical translation from microprobe investigation

Topics to be covered

- Single cell microbeam (particle) facilities/design and developments
- Laser & X-ray microbeam facilities
- Particle therapy research beamlines Irradiation & imaging techniques
- Cellular and tissue effects
- Cellular response: communication and dynamics
- Diagnostics and analysis techniques
- Clinical translation for particle therapy developments

Faculty

Dr Philippe Barberet

University of Bordeaux , France

Dr David Brenner

Columbia University Medical Center, USA

Professor Günther Dollinger

Die Universität der Bundeswehr München, Germany

Professor Karen Kirkby

University of Manchester & The Christie, UK

Learning Outcomes

- To increase knowledge about the latest research developments and techniques in the field of single cell irradiation and measurement of the single cell response to radiation
- To raise awareness and highlight the clinical relevance of microprobe techniques for understanding fundamental radiobiological parameters for particle therapy

Intended Audience

Academic researchers, medical physicists and clinicians

Fees

£210 (General admission)

£190 (Early bird - book before 14th July 2017)

£60 (Conference dinner)

Abstracts

We are inviting abstracts for attendees who would like to present a poster at the conference. Please submit your abstract to education.events@christie.nhs.uk by 14th May 2017 to be considered.

Professor Norman Kirkby

University of Manchester & The Christie, UK

Dr Mike Merchant

University of Manchester, UK

Professor Ranald Mackay

University of Manchester & The Christie, UK

Dr Jan Schuemann

Massachusetts General Hospital, Harvard Medical School & Francis H. Burr Proton Therapy Center, USA

Professor Frank Watt

National University of Singapore, Singapore

More to be confirmed.....

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