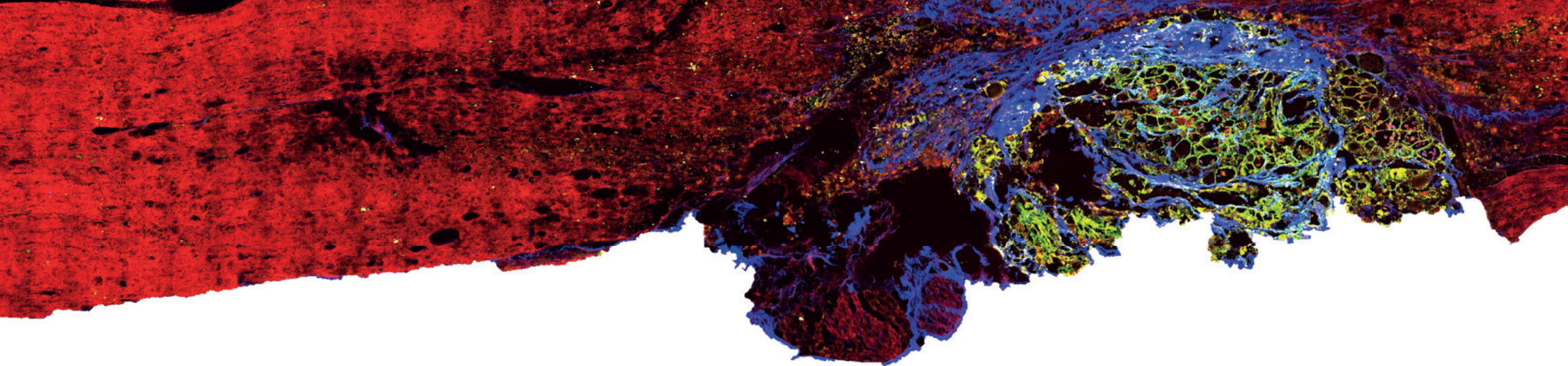




Venue

OncoRay – National Center for Radiation
Research in Oncology
Händelallee 26, Building 130, Conference room
01309 Dresden

Registration and further information

The symposium is FREE to attend but we would
like you to register at our website:

tinyurl.com/symposium-ukd

Scientific Organizers / Contact

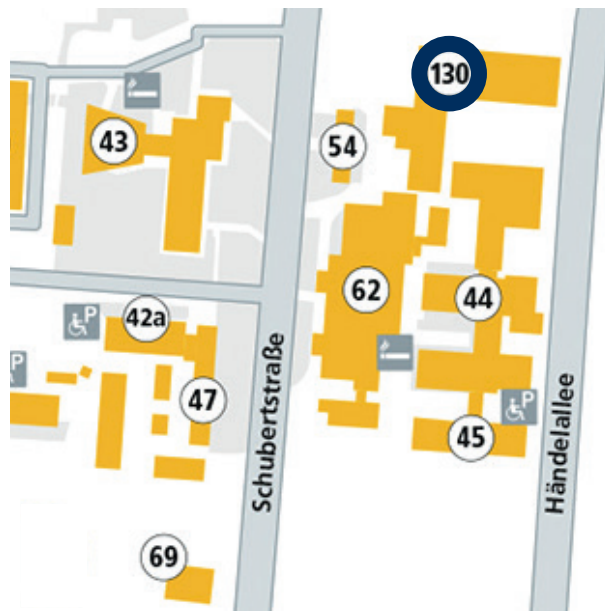
Universitätsklinikum Carl Gustav Carus
Neurosurgery
Molecular Neuroimaging Laboratory
Fetscherstr. 74, Building 59, 01307 Dresden

Prof. Dr. Matthias Kirsch

Phone: +49 351 458 4735
eMail: matthias.kirsch@ukdd.de

Dr. Susanne Michen

Phone: +49 351 458 7028
eMail: susanne.michen@ukdd.de



Symposium

Models and Imaging in Translational Neuroscience

September 6 – 7, 2018

Universitätsklinikum
Carl Gustav Carus Dresden
OncoRay (Building 130)
Conference room

Dear Colleagues,

We would like to invite you to attend our symposium "Models and Imaging in Translational Neuroscience" in Dresden. The symposium will be held September 6 to 7, 2018 at the OncoRay – National Center for Radiation Research in Oncology.

The symposium will provide an overview of various models and research methods of central nervous system pathologies. The topics range from brain tumor research *in vitro* to *in vivo* models of brain tumors and models of spinal cord injury and stroke.

Main topics of the symposium are:

1. Brain tumors, stroke and spinal cord injury models (*in vitro*, *in vivo*, basics of animal experiments)
2. Experimental therapies in neuroscience
3. Translational imaging (models, small animal imaging, optical techniques)

We will discuss regulatory and methodical aspects and provide protocols. Speakers with extensive experience of specific research areas will deliver insight into the necessary requirements and the diversity of the scientific infrastructure.

We cordially invite you and are very much looking forward to an exciting symposium!

Prof. Dr. Matthias Kirsch
Dr. Susanne Michen

Thursday, September 6

12:30 Welcome
Prof. Dr. Matthias Kirsch, Unkl. Dresden

Brain tumor models *in vitro*

12:45 Spheroid culture
Prof. Dr. Leonie Kunz-Schughart, OncoRay
13:05 Primary cell culture
Dr. Susanne Michen, MedFak TU Dresden
13:25 CAM-Assay
Dr. Ortrud Uckermann, MedFak TU Dresden

Brain tumor models *in vivo*

13:45 Models of metastases in mice
Prof. Dr. Matthias Kirsch, Unkl. Dresden
14:05 Brain tumor models in mice
M.Sc. Alexander Hagstotz, MedFak TU Dresden
14:25 Models of meningioma
PD Dr. Jan Walter, Unkl. Jena
14:50 Concepts of radio therapy in small animals
Dr. Rebecca Bütof, OncoRay

Coffee Break

Basics of animal experiments

16:00 Allgemeines zum Tierversuchsantragsverfahren
Dr. Kerstin Brückner, Tierschutzbeauftragte TUD
16:25 Unterbringung, Handling und experimentelle Techniken von Kleinnagern
Dr. Jana Wohlfarth, Experim. Zentrum TU Dresden

Experimental therapies in neuroscience

16:50 TT fields as therapy for brain tumors
Dr. Verena Leidgens, Novocure
17:10 TT fields in cell culture
PD Dr. Carsten Hagemann, Unkl. Würzburg
17:35 Concepts for immunotherapy of glioma
Prof. Dr. Achim Temme, MedFak TU Dresden
17:50 Gene transfer technologies
Prof. Dr. Achim Temme, MedFak TU Dresden
18:10 Stroke models in rats
Dr. Sara Bragado, CRTD

Friday, September 7

Translational imaging – models

08:30 Axolotl salamander as spinal cord injury model
Jonas Bendig, MedFak TU Dresden
08:50 Spinal cord injury model in rat
Dr. K.-Hakan Sitoci-Ficici, Unkl. Dresden

Translational imaging – *in vivo*

09:10 Dynamic, long-term intravital microscopy of tumor cells
Dr. Matthias Karreman, DKFZ Heidelberg
09:45 Methods of small animal imaging
Dr. Rebecca Bütof, OncoRay

Coffee Break

Translational imaging – techniques

11:00 CARS microscopy
Dr. Ortrud Uckermann, MedFak TU Dresden
11:25 Raman spectroscopy
Dr. Roberta Galli, MedFak TU Dresden
11:50 FT-IR spectroscopy
Prof. Dr. Gerald Steiner, MedFak TU Dresden
12:10 Thermography
Dipl.-Ing. Juliane Müller, MedFak TU Dresden
12:30 Intraoperative optical imaging
Dipl.-Ing. Martin Oelschlägel, MedFak TU Dresden
12:50 Laser speckle contrast imaging
PD Dr. Johannes Woitzik, Charité Berlin

13:15 Concluding Remarks
Prof. Dr. Matthias Kirsch, Unkl. Dresden

Lunch