11.00-11.30  Nils Cordes (GER)
Integrin/RTK interactions and their impact on cancer cell therapy resistance

11.30-12.00  Ruth J. Muschel (UK)
Altering the tumour microenvironment to improve the radiation response

12.00-12.30  Laure Bouchez (CH)
Small molecules with “big impact” for cancer stem cells research

12.30-13.00  Andreas Androutsellis-Theotokis (GER)
Novel signaling pathways and biomarkers in cancer stem cells from gliomas

13:00-14.00  Lunch

- Registration opens on April 2, 2013 via email or online registration www.oncoray.de.
- Registration deadline is August 31, 2013
- The registration fee is 100 Euro including: admittance to the workshop, the exhibition and catering (lunch and coffee) on both days.
- Confirmation of registration will be sent after receipt of registration form and fee.
- The workshop will be limited to 100 participants.
- Posters are very welcome.
- In addition to invited speakers, selected poster presenters will be given the opportunity to prepare a manuscript for a peer-reviewed, special issue of the International Journal of Radiation Biology, which will be dedicated to this workshop.

Organizer
OncoRay
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Language
The workshop language will be English. No simultaneous translation will be provided.

Venue
Medizinisch Theoretisches Zentrum
Fiedlerstraße 42, D-01307 Dresden.

CANCER STEM CELLS:
THE MECHANISMS OF RADIORESISTANCE AND BIOMARKER DISCOVERY

Dresden, Germany, 23. – 24. September 2013
Most current therapies cannot cure advanced cancer. Resistance to chemo- and radiotherapy has been reported to be a defining characteristic of cancer stem cells (CSCs) and CSC markers were linked to the poor clinical outcome. Many intrinsic determinants were attributed to the radioresistance of CSCs. However, we are still far from complete understanding of the molecular mechanisms regulating tumor radioxicability.

Emerging genomics, proteomics and high throughput screening technologies expand our knowledge regarding the role of specific genes and proteins in the regulation of CSC properties. New therapeutic strategies that selectively target CSC population, coupled with using of CSC biomarkers as predictors of therapeutic response, should confer a significant clinical benefit over conventional treatments.

The aim of this workshop is to bring together the most recent viewpoints and insights about (i) the molecular characterization and regulation of CSCs, (ii) the mechanisms of CSC radioresistance, (iii) the discovery of new CSC targeting therapeutics and biomarkers, and to work on advancing the field.

Invited speakers
Amir Abdollahi (GER)
Andreas Androutsellis-Theotokis (GER)
Michael Bachmann (GER)
Michael Baumann (GER)
Laure Bouchez (CH)
Frank Buchholz (GER)
Nils Cordes (GER)
Peter Friedl (NL)
Richard P. Hill (CA)
Leoni A. Kunz-Schughart (GER)
Hai-Kun Liu (GER)
Michael Muders (GER)
Ruth J. Muschel (UK)
Ira-Ida Skvortsova (AT)
Serhiy Souchelnytskyi (SE)
Dean G. Tang (USA)
Ingeborg Tinhofer-Keilholz (GER)
Heiko Wurdak (UK)
Daniel Zips (GER)

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