INVITATION

Current status and future perspectives in particle therapy

17.-20. October 2017

at the Frankfurt Institute for Advanced Studies

in collaboration with

• Philipps-University Marburg
• GSI Helmholtzzentrum Darmstadt
• THM Gießen

Friday

08.30 New options for heavy ion therapy
Chairs: Klaus Herfarth (Heidelberg)
Andrea Wittig (Jena)

Heavy ion therapy combined with immunotherapy
Kirsten Lauber (München)

Outcome of particle therapy for locally advanced NSCLC
Andrea Wittig (Jena)

Particle therapy and Parkinson disease?
Fabian Eberle (Marburg)

Particle therapy for cardiac arrhythmia?
Christian Graeff (Darmstadt)

10.30 Coffee break

10.50 Clinical trials
Chairs: Rita Engenhart-Cabillic (Marburg)
N.N.

Status of ongoing clinical trials for Carbon Ion Therapy in Europe
Klaus Herfarth (Heidelberg)

Validation methodologies for the clinical benefit of proton therapy
J. A. Hans Langendijk (Groningen)

11.50 Closing remarks
Chairs: Marcus Bleicher (Frankfurt)
Rita Engenhart-Cabillic (Marburg/Gießen)
Klemens Zink (Gießen/Marburg)

Poster contributions:

Poster presentations are welcome. Abstracts should be submitted before September 15th per mail to:

gis2017@fias.uni-frankfurt.de

Format: pdf-documents (350 words excluding title and authors).

Best poster presentations will be awarded.

Contact and Registration:

gis2017@fias.uni-frankfurt.de

Conference Website:

indico.fias.uni-frankfurt.de/e/gis2017
Tuesday

11.00 Registration

12.00 Opening and welcome ceremony
   Rita Engenhart-Cabillic and Marcus Bleicher
   Stephan Rapp (Stiftung Giersch)

12.30 Keynote lectures
   Chairs: Rita Engenhart-Cabillic (Marburg/Gießen)
          Gerhard Kraft (Darmstadt)
   Relevance of radiotherapy for the individualized tumor treatment
   Wilfried Budach (Düsseldorf)
   Japan experience for carbon ion therapy
   Hiroshi Tsujii (Chiba)
   German experiences in carbon ion und future trends
   Jürgen Debus (Heidelberg)

14.30 Coffee break

14:50 Keynote lectures
   Chairs: Roberto Orecchia (Mailand)
           Hiroshi Tsujii (Chiba)
   Next generation particle therapy
   Thomas Bortfield (Boston)
   Biological rational for particle therapy
   Gerhard Kraft (Darmstadt)
   Translational research in particle therapy
   Mechthild Krause (Dresden)

16:50 Coffee break

17:10 Presentations of young scientists
   Chairs: Christian Graeff (Darmstadt)
           Hilke Vorwerk (Marburg)

Wednesday

08.30 RBE-Modeling
   Chairs: Antony J. Lomax (Villingen)
           Klemens Zink (Gießen/ Marburg)
   RBE-Modeling: MKM
   Igor Mishustin (Frankfurt)
   RBE-Modeling: LEM
   Michael Scholz (Darmstadt)
   Challenges of RBE as a concept in proton therapy
   Antony J. Lomax (Villingen)
   Challenges of RBE modeling for treatment planning
   Stine Korreman (Aarhus)

10.30 Coffee break

10.50 Pancreas
   Chairs: Christian Brandts (Frankfurt)
           Henrik Hauswald (Heidelberg)
   Overview of therapies for pancreatic cancer
   Thomas Wündisch (Marburg)
   Evidence in PT for GI tumors
   Roberto Orecchia (Mailand)
   Is there a chance for more effective particle radiotherapy?
   Hilke Vorwerk (Marburg)

12.20 Lunch

13.20 Poster presentation and awards
   Chairs: Ulrike Schötz / Fabian Eberle
           Kilian Baumann (all Marburg)

14.30 Clinical indications for particle therapy
   Chairs: Rita Engenhart-Cabillic (Marburg/Gießen)
           Hiro Sato (Gunma)
   Evidence of particle therapy for skull base tumors
   Piero Fossati (Wien)
   ACC: is carbon ion radiotherapy standard?
   Henrik Hauswald (Heidelberg)
   Combining particle therapy with systemic treatment in cancer patients**
   Christian Brandts (Frankfurt)
   HCC: Recent advances in local treatment
   Thomas J. Vogl (Frankfurt)
   HCC: Are there places for particle therapy?"*
   Matthias Hänler (Heidelberg)

16.00 Coffee break

19.00 Reception

Thursday

08.30 Biological targeting
   Chairs: Claudia Fournier (Darmstadt)
           Kirsten Lauber (München)
   Translational research to improve carbon ion therapy
   Hiro Sato (Gunma)
   Double-strand break repair as a target for individualized radiotherapy
   Wael Mansour (Hamburg)
   Targeting the ß-inegrin pathway
   Nils Cordes (Dresden)
   Cancer stem cells: The role of stem cells in radiation response and regeneration
   Rob Coppes (Groningen)

10.30 Coffee break

10.50 Pediatric Tumors
   Chairs: Andrea Wittig (Jena)
           Eugen Hug (Wien)
   Challenges of proton therapy for pediatric tumors
   Beate Timmermann (Essen)
   Evidence in particle therapy for pediatric brain tumors
   Damien C. Weber (Villingen)
   May proton therapy lead to better neurocognitive outcome?
   Anita Mahajan (Boston)

12.20 Lunch

13.20 Hodgkin Lymphoma
   Chairs: Anita Mahajan (Boston)
           Beate Timmermann (Essen)
   EuroNet treatment optimization in Hodgkin diseases
   Dieter Körholz (Gießen)
   Reduction of radiotherapy treatment morbidity is important for Hodgkin patients
   Karin Dieckmann (Wien)

14.20 Coffee break

14.40 Physical challenges in particle therapy
   Chairs: Thomas Bortfield (Boston)
           Christian Graeff (Darmstadt)
           Henrik Hauswald (Heidelberg)
   Moving Targets
   Takuji Furukawa (Chiba)
   Robustness in particle therapy applications
   Oliver Jakel (Heidelberg)
   Degradation in lung tissue
   Klemens Zink (Gießen/Marburg)
   New developments in medical particle accelerators
   Thomas Haberer (Heidelberg)

17.10 Imaging in particle therapy
   Chairs: Rita Engenhart-Cabillic (Marburg/Gießen)
           Hiro Sato (Gunma)
           Klemens Zink (Gießen/Marburg)

19.00 Social evening