Symposium

A nuclear spin on Personalized Medicine

May 16th 2014, 2.00 – 5.30 p.m.
Lecture Hall 3

Division of Nuclear Medicine and
Center for Medical Physics and Biomedical Engineering

Marcus Hacker
Division of Nuclear Medicine, Department of Biomedical Imaging and Image-guided Therapy

Thomas Beyer
Center for Medical Physics and Biomedical Engineering

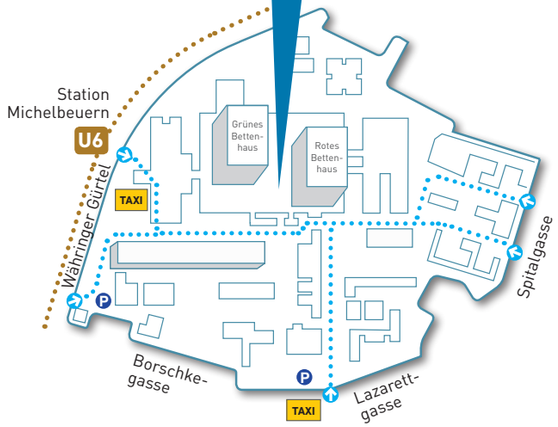
Dear Colleagues,

Nuclear medicine imaging techniques, such as SPECT and PET, are instrumental in revealing the causes and pathways of a variety of pathologies, and help improve and guide personalized treatment decisions. They enable non-invasive serial assessments of the entire body as well as the visualisation and non-invasive quantification of molecular processes through the selection of specific imaging biomarkers.
Dual-modality systems, such as SPECT/CT, PET/CT, and PET/MR, offer improved diagnostic accuracy and logistical benefits. Most importantly, the extraction of multiple imaging parameters and biomarkers from a single examination further strengthens a personalized medicine approach.

This symposium brings together key experts in the field to reflect on the current status and the potential of nuclear medicine as a stakeholder of personalized medicine in the early 21st century.

Marcus Hacker Thomas Beyer

Hörsaalzentrum, Lecture Hall 3 (Level 7)
Medizinischer Universitätscampus - General Hospital Vienna
Währinger Gürtel 18-20, 1090 Vienna



For more information and registration:
www.meduniwien.ac.at/persmed

Supported by

IASON
THQ MEDICAL PRODUCTS
GE Healthcare
DIAGNOSTICA EDM Diagnose. Therapie. Gesundheit.
SIEMENS
PHILIPS
HERMES MEDICAL SOLUTIONS

Division of Nuclear Medicine and
Center for Medical Physics and Biomedical Engineering

"Individualized medicine requires the integration of molecular diagnostics and therapeutics embedded in a solid understanding of the biology of disease." Johannes Czernin

"Molecular brain imaging advances quickly. Radiopharmaceuticals targeting other pathological protein depositions are being tested successfully in patients. Their clinical success, however, will depend on the development of disease modifying therapeutics." Peter Bartenstein

"Cardiac molecular imaging can help in reconciling personalized cardiovascular care with the use of evidence-based, guideline-driven diagnosis and therapy." Ignasi Carrió

"The concept of personalised medicine is good; the problem is not the science, it is to formulate an appropriate business model that supports such a development." David D. Townsend

"In the long run 'precision medicine' may be a more appropriate term to describe efforts in personalized medicine." Christian Herold

Symposium

A nuclear spin on Personalized Medicine

May 16th 2014,
Lecture Hall 3

Program

2.00 p.m.

Welcome
Thomas Beyer and Marcus Hacker

Session 1

Moderator: Christian Herold
Department of Biomedical Imaging and Image-guided Therapy, Medical University of Vienna, Austria

2.10 – 2.30 p.m.

How personal is personalized Medicine today?
Christoph Zielinski
Department of Medicine I and Clinical Division of Oncology, Medical University of Vienna

2.30 – 2.50 p.m.

A personal response from a nuclear oncologist
Markus Schwaiger
Department of Nuclear Medicine,
Technical University of Munich, Germany

2.50 – 3.10 p.m.

A personal response from a nuclear cardiologist
Ignasi Carrió
Nuclear Medicine Department, Autonomous University of Barcelona, Spain

3.10 – 3.40 p.m.

A personal response from a nuclear neurologist
Peter Bartenstein
Department of Nuclear Medicine, University of Munich, Germany

3.40 – 4.10 p.m.
Coffee break

Session 2

Moderator: Wolfgang Drexler
Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Austria

4.10 – 4.30 p.m.

Personalizing imaging technologies
David D. Townsend
Clinical Imaging Research Centre, Singapore

4.30 – 4.50 p.m.

Translating personalized medicine
Bernd Pichler
Laboratory for Preclinical Imaging and Imaging Technology, Department of Preclinical Imaging and Radiopharmacy, University of Tübingen, Germany

4.50 – 5.10 p.m.

Round table
Johannes Czernin
Ahmanson Translational Imaging Division/Nuclear Medicine, Department of Molecular and Medical Pharmacology, David Geffen School of Medicine, UCLA, USA

5.10 – 5.30 p.m.

Summary: how personal will personalized medicine be tomorrow?
Johannes Czernin

Farewell

Division of Nuclear Medicine and
Center for Medical Physics and Biomedical Engineering