DONAU SYMPOSIUM
APPLIED DIAGNOSTICS FOR EFFECTIVE CANCER TREATMENT:
“A Blend of Molecular Pathology, Nuclear Medicine and Clinical Pharmacology”

FINAL PROGRAMME

Van-Swieten Saal, Medical University Vienna, Austria
www.applied-diagnostics.eu
Organizing Committee:

Johannes Czernin (UCLA - Los Angeles, USA),
Elisabeth de Vries (UMCG - Groningen, Netherlands),

Thomas Beyer, Marcus Hacker, Lukas Kenner, Oliver Langer, Sharokh Shariat, Wolfgang Wadsak, Markus Zeitlinger (all MUW - Vienna, Austria)

Gerda Egger, Markus Mitterhauser (LBI:AD – Vienna, Austria)

Objective. Modern patient care depends on access to state-of-the-art diagnostics including imaging, pathology and data analysis methods. These fields, while being in active pursuit by several groups, cannot be regarded independently anymore. Today, a number of novel and effective pharmaceuticals for therapeutic interventions are available but treatment response is limited due to insufficient a priori patient selection.

If we want to expand on our understanding of disease mechanisms, shortcut target identification and progress in the assessment of subsequent, novel therapeutic approaches, wider collaborative efforts across existing boundaries of medical disciplines and applied sciences are needed. These efforts must not stop at pointing to selected targets and therapies but support going the last mile to turn effective disease management into cost-effective patient management.

This congress intends to provide a forum to open-minded experts both from academia and industry in the field of molecular pathology, nuclear medicine, clinical pharmacology and beyond who share this vision and like to engage in advancing effective and individualized treatments based on novel and validated diagnostic approaches.

The “Donau Symposium” will be accredited with 14 DFP points.
Wednesday
18:00-19:30 Welcome and Keynote Lecture
Chairs: Lukas Kenner
Welcome: Markus Müller (Rector MUW)
Keynote Lecture: Signaling pathways and inflammation in the pathogenesis of cancer Michael Karin (San Diego)
19:30-open Welcome Reception (Van Swieten Saal & Foyer)

Thursday „Basic Track“
08:30-10:30 Advanced Concepts in Molecular Pathology
Chairs: Gerda Egger + Gerald Prager
Mass Spectrometry Based Proteomics for Clinical Applications Kirti Sharma (Martinsried)
Tumor Heterogeneity and Genomics K. Elenitoba-Johnson (Philadelphia)
Targeting the Cancer Epigenome for Therapy Peter Jones (Grand Rapids)
Expression Profiling of Biopsy Samples tba (MSD)
10:30-11:30 Coffee
11:30-13:30 Advanced Concepts in Nuclear Medicine
Chairs: Marcus Hacker + John Babich
Next Generation of Nuclear Imaging Probes for Cancer Diagnosis and Therapy Jason Lewis (New York)
PET with Radiolabeled Anticancer Drugs to Predict Therapy Response Harry Hendrikse (Amsterdam)
In-vivo Target Quantification Adrian Lammertsma (Amsterdam)
Targeted Thorium Conjugates in Cancer Therapy: A New Alpha Particle Emitting Radiopharmaceutical Platform Jenny Karlsson (Bayer AS)
13:30-15:00 Lunch
15:00-17:00 Advanced Concepts in Clinical Pharmacology
Chairs: Oliver Langer + Johannes Czernin
Role of Transporters in Anticancer Drug Disposition: Drug-Drug Interactions and Pharmacogenetics Ingolf Cascorbi (Kiel)
Use of PET Microdosing in Anticancer Drug Development Mats Bergström (Uppsala)
Approaches to Overcome the Blood-Brain Barrier to Improve Brain Delivery of Anticancer Drugs Olaf van Tellingen (Amsterdam)
Concepts in Translational Biomarker Research Thomas Pieber (CBmed)
19:00 Congress Dinner
### Clinical Applications Track

**Friday 08:30-10:30**  **Applying Diagnostics to Prostate Cancer – a Case Scenario**  
*Chairs: Markus Mitterhauser + Harun Fajkovic*

| From man to mice and back: Why model systems matter in pathology! | Lukas Kenner (Vienna) |
| Radiopharmaceuticals for Theranostics in Prostate Cancer | John Babich (New York) |
| Tumor Detection and In-Vivo Tissue Characterization using PET/MRI | Markus Hartenbach (Vienna) |
| New Concepts in Radiopharmacy and Clinical Transfer | York Hämisch (Scintomics) |

**Friday 10:30-11:30**  **Coffee**

**Friday 11:30-13:30**  **Predicting Response to Targeted Therapy – Clinical Trials**  
*Chairs: Christoph Zielinski + Peter Birner*

| Individualized Treatment of Solid Tumors: The EXACT-Trial | Gerald Prager (Vienna) |
| Molecular Imaging for Drug Development and Pharmacodynamic Biomarkers | Elisabeth De Vries (Groningen) |
| Imaging Target Expression and Inhibition: Predictive | Johannes Czernin (Los Angeles) |
| Molecular profiling of solid tumors in blood and tissue for optimal therapy guidance | Lukas Heukamp (Siemens) |

**Friday 13:30-15:00**  **Late Austrian Lunch**

**Friday 15:00-17:00**  **Novel Tools – Target Definition**  
*Chairs: Markus Zeitlinger + Elisabeth de Vries*

| Liquid Biopsies in Oncology | Michael Speicher (Graz) |
| Tumor Immunology „Stat3 Suppresses adaptive immunity during tumor initiation“ | Florian Greten (Frankfurt/Main) |
| Nuclear Imaging Omics | Bernd Pichler (Tübingen) |
| Applied Diagnostics | Markus Mitterhauser (LBI:AD) |

**Friday 17:00-17:30**  **Summary and Closing Remarks**  
Megan Lim (Philadelphia)
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We thank all Sponsors and Exhibitors for their contribution!

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FACULTY (SPEAKERS & MODERATORS):

John Babich, Ph.D., is Professor of Radiopharmaceutical Sciences in Radiology at Weill Cornell Medical College in New York City. John has over 25 years of experience in the discovery, design, and clinical development of radiopharmaceuticals for broad medical applications represented by more than 180 publications in peer-reviewed journals and 37 issued patents, as well as several book chapters and invited reviews. Before joining Weill Cornell Medical College, John co-founded and was President and Chief Scientific Officer at Molecular Insight Pharmaceuticals (MIP) in Cambridge, MA, USA. At MIP, he brought six new radiopharmaceuticals to the clinic including the first human studies of small molecule inhibitors of PSMA for imaging and targeted radiotherapy of prostate cancer, including the world’s first Technetium-99m labeled PSMA inhibitor for imaging prostate cancer which is currently in Phase 3 clinical trials. Previously, John has held positions at Massachusetts General Hospital and Harvard Medical School, the Institute of Cancer Research and the Royal Marsden Hospital in the UK, NASA and Baylor College of Medicine in Houston, Texas, and Brookhaven National Laboratories in New York. He has also served as President of the Society of Nuclear Medicine’s Radiopharmaceutical Science Council. In 2013, he joined the faculty at Weill Cornell Medical College where he is currently Chief of the Division of Radiopharmaceutical Sciences in Radiology and Head of PET Radiochemistry at The Citigroup Biomedical Imaging Center. A major area of his lab’s research focus is on the identification of novel biological targets and radioligands that would lead to the creation of clinically meaningful imaging biomarkers and cancer therapeutics.
Mats Bergström, B Sc in Mathematics, Physics and Theor. physics. Ass.prof. Radiation Physics. Professor of Neuropharmacology 2002, Uppsala, Senior Researcher at Uppsala University PET Centre. Senior Scientist for Contract Research and Head of Preclinical Laboratory, Director of PET Program within the Clinical Imaging Group, Novartis Pharma AG, Basel, Director, Head of Biology, Lead Imaging Scientist in Oncology, Clinical Imaging Centre, GSK, London. Introducing and planning for application of PET methodology in drug development, through pre-clinical till clinical stages, particularly in oncology, Director, Senior Imaging Expert, F Hoffman –LaRoche, Basel Switzerland. Instrumental in the creation of the Dutch Imaging Hub. Appointed Distinguished Scientist. Normal retirement from Roche November 2011. Supporting a few companies as consultant in Imaging in Drug Development

Scientific track record.
Close to 300 publications, pre-dominantly in the field of PET, pre-clinically and clinically. Participated in the preclinical evaluations of about 400 PET-labeled molecules at Uppsala PET Centre of which about 80 compounds were taken to human clinical trials. Main or associate supervisor for 13 Ph D students in medicine and pharmacology.

In Roche, main scientific activity centered around the utility of $^{89}$Zr-labeled antibodies for the characterization of tissue distribution and target interaction. This includes efforts in close collaboration with clinical pharmacology and Modeling&Simulation to define quantitation models to extract the relevant parameters.

Prices and awards.
European Federation of Pharmaceutical Sciences: New safe medicines faster award 2003 for the promotion of and first publication on PET Microdosing.
Thomas Beyer holds a PhD in Physics and is co-developer of combined PET/CT imaging systems. He has a background in research and project management in academia and imaging industry. Thomas graduated in Physics from the Leipzig University (Germany) and got his PhD in Medical Physics from Surrey University (UK). During his US-based studies he became involved in the development and clinical testing of the first PET/CT prototype (1992-2000) before joining Siemens/CTI PET Systems as an International PET/CT specialist. In 2002 he became a Research Associate in Nuclear Medicine and Radiology and PET/CT project manager at Essen University Hospital (Germany). In 2006 he became Teaching Professor (Priv.-Doz.) for Experimental Nuclear Medicine at Essen, and joined timaq medical imaging Inc, a Zurich-based Imaging CRO. In 2007 Thomas moved to Philips Medical Systems as International Manager Clinical Science Nuclear Medicine. In 2008 he set up a Zurich-based consulting company for expert advise in cross-modality imaging and applications. He is appointed full professor of Physics of Medical Imaging at the Medical University of Vienna from March 2013. Thomas is a member of various national and international Medicine organizations, a founding member of the European Association of Nuclear Medicine (EANM) Physics Committee, the European Society of Hybrid Imaging and past Head of the New Technology working group at the Association of Imaging Producers and Equipment Suppliers (AIPES).

Peter Birner:
Since 10/2015: Head of the Department of Pathology, Medical University of Vienna
since 2009: Medical University of Vienna: associate professor for pathology
2007- 2003: medical chamber of Vienna, head of medical education commission,
member of the medical education commission of the Austrian medical chamber
2007-1999: Medical University of Vienna, Department of Pathology, since 2002 associate professor
1999-1997: University of Vienna, Department of Neurology (research fellow)

Education:
2010-2009: Danube University Krems, postgraduate study (Master of Science) in healthcare management
2006-2002: Study of Law at the University of Vienna (first study section finished)
2003-2001: Vienna University of Economics, degree as “Academic Hospital Manager”
2002: Degree as “Quality Manager in Healthcare” (ISO)
1997-1991: Studies of medicine, University of Vienna

Reviewer for:

Peter Birner is author of about 200 peer reviewed papers, his current Hirsch-(h-) index is 37.

Ingolf Cascorbi is professor of pharmacology at the University of Kiel, Germany and director of the Institute of Experimental and Clinical Pharmacology, University Hospital Schleswig-Holstein, Campus Kiel. He graduated in biochemistry in 1985 and in medicine in 1992 at the Free University of Berlin. He earned a PhD in biochemistry in 1989, and an MD in 1999. After being research associate at the Free University Berlin and later at the Charité Berlin, he received a board certification in clinical pharmacology. In 2000, he was appointed as associate professor of pharmacology and toxicology at

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University of Greifswald. In 2004, Ingolf Cascorbi was appointed to Kiel. His research interest are in pharmacogenomics and -epigenomics, in particular of drug efflux transporters and drug metabolism as well as genetic risk factors of complex diseases, neuropathic pain research, and clinical studies. He has published more than 210 scientific papers. Ingolf Cascorbi is currently Vice Dean of Education of the Medical Faculty and serves as member several boards of scientific societies and authorities.

**Johannes Czernin** got his MD in Medicine from the University of Vienna, Austria in 1983. He is currently Chief of the Ahmanson Translational Imaging Division, Professor of Molecular and Medical Pharmacology/Nuclear Medicine, and Vice-Chair of the Department at the University of California, School of Medicine, Department of Molecular and Medical Pharmacology.

Dr. Czernin and his colleague Dr. Caius Radu have established an exciting and well-funded research environment, the Ahmanson Translational Imaging Division which has grown substantially over the last several years and consists of the Nuclear Medicine Clinic, a Clinical Imaging Research Program, and a new preclinical imaging center. The success of the Division is based on extensive collaborations within the department of molecular and medical pharmacology and across several other departments including medicine, surgery, radiology, neurology, pathology and others.

He is the founder of 2 companies and currently serves as the Editor In Chief of the Journal of Nuclear Medicine.

**Elisabeth de Vries**, MD, PhD is Professor of Medical Oncology at the University Medical Center Groningen, Groningen, the Netherlands. She is involved in patient care, teaching, and research. She actively promoted the view that a multidisciplinary approach with close interactions between the laboratory and clinic is crucial for improving prospects for cancer patients. Her focus is on interdisciplinary, translational research, aiming for personalized medicine. Her research lines are aimed at increasing the
sensitivity of tumors to anticancer drugs, and she uses imaging techniques to support this. Apart from laboratory studies, she performs and coordinates clinical trials. She has received numerous grants, including grants from the Dutch Cancer Society, EU, and is PI of CTMM (Center for Translational and Molecular Medicine) grant MAMMOTH, Alpe d’HuZes grant IMPACT, and ERC advanced grant OnQview. She has supervised over 106 PhD students and published over 800 PubMed listed papers. She is currently chairperson of the committee for the new RECIST 2.0 version on behalf of the EORTC. In 2002, she was appointed as a member of the Royal Academy of Arts and Sciences (KNAW). She received the European Society of Medical Oncology (ESMO) award in 2009. She is Fellow of the European Academy of Cancer Sciences. She was awarded a Royal Netherlands Academy of Sciences professorship in 2011. In 2014 she received the Prof. Muntendam award from the Dutch Cancer Society and De Reinier de Graaf medal 2014 for her work in the field of clinical medicine of the Society of Physics, Medicine and Surgery, Amsterdam.

Gerda Egger is Associate Professor at the Pathology Department of the Medical University of Vienna and Key Researcher in the newly established Ludwig Boltzmann Institute for Applied Diagnostics (LBI-AD). Using genetic mouse models and primary patient samples her group aims to elucidate the relation of oncogenic signaling and epigenomic alterations, which together drive tumor development and progression. Based on these study she has also a major interest to develop minimal-invasive biomarkers for tumor diagnosis in liquid biopsies of cancer patients based on tumor specific DNA methylation signatures and to translate her findings into clinical routine.

Kojo S. J. Elenitoba-Johnson, MD, is the inaugural Peter C. Nowell, MD Professor in the Department of Pathology and Laboratory Medicine at the Perelman School of Medicine, University of Pennsylvania. He is also the Founding Director of Penn Medicine’s Center for Personalized Diagnostics, as well as Chief of the Division of Precision and Computational Diagnostics.
Dr. Elenitoba-Johnson earned his medical degree from the College of Medicine at the University of Lagos, in Nigeria. He underwent residency training in Anatomic and Clinical Pathology at Brown University School of Medicine. He completed a fellowship in Hematopathology at the National Cancer Institute, National Institutes of Health.

Dr. Elenitoba-Johnson’s research is focused on the pathogenesis of human malignant lymphomas and cancer biomarker discovery by genomic and proteomic profiling. Dr. Elenitoba-Johnson has been recognized for his work with numerous awards including the Society for Hematopathology Pathologist in Training Award in 1998; the Ramzi Cotran Young Investigator Award from the United States and Canadian Academy of Pathology in 2006 and the Outstanding Investigator Award given by the American Society for Investigative Pathology (2012).

Dr. Elenitoba-Johnson is the President-Elect of the Association for Molecular Pathology (2017) and is an active member of numerous professional societies, including the American Society of Hematology, American Society for Investigative Pathology, and United States and Canadian Academy of Pathologists. He has authored or co-authored more than 130 peer-reviewed research publications and has contributed numerous chapters to professional textbooks in Pathology.

Harun Fajkovic is currently executive director of the Department of Urology at the Medical University of Vienna, Vienna General Hospital, Austria. He specializes in urologic oncology and minimal invasive chirurgy. He has published more than 70 peer-reviewed research papers (h-index: 19; total number of citations: 950), over 30 non-peer-reviewed research papers, and two book chapters, is the recipient of various national and international rewards. He is a member of various academic societies and a journal, meeting abstract, and grant reviewer for numerous national and international organizations. He is currently member of several collaborative multicenter groups (Bladder Cancer Research Consortium, The Bladder Cancer Detection Group, and The Upper Tract Urothelial Carcinoma Collaboration) and prospective clinical trials.

Dr. Fajkovic was born 1975 in Zagreb, Croatia. After receiving his medical degree from the University of Vienna in 2005, he started his urological
education as resident in Urology at the Department of Urology, LKH St.Pölten. He continued his education with a fellowship in Urologic Oncology at the Weill Cornell Medical College, New York, USA in 2011. In year 2013 he finished Austrian Board Certification and Certification of the European Board of Urology (F.E.B.U.) In the same year he joined to the Department of Urology at the Medical University of Vienna, Vienna General Hospital.

**Florian R. Greten** studied medicine in Hamburg and Vienna and graduated as Dr. med. in 1998 in Hamburg. After that he began his clinical and scientific training in internal medicine at the University Hospital of Ulm. From 2000 to 2004 he was a researcher at the University of California, San Diego. After returning to Germany he built his own scientific workgroup at the Klinikum rechts der Isar of the Munich Technical University within the Emmy-Noether program of the German Science Foundation (DFG) and was Professor of Molecular Gastrointestinal Oncology. Since August 2013 he is Chair of Tumor Biology at the Medical Faculty Goethe University and Director of the Frankfurt Georg-Speyer-Haus. His work has been awarded a number of prestigious scientific awards, including 2005 Emmy Noether fellowship from the German Science Foundation, 2011 the coveted "ERC Starting Grant" of the European Research Council, 2012 the German Cancer Award, 2013 Wilhelm Vaillant-Award and 2014 Innovation Award for Life Sciences from Goethe University in Frankfurt. Since 2014 he is a member of the Fachauusschuss “Klinische Forschung und kliniknahe Grundlagenforschung der Deutschen Krebshilfe” and since 2015 a member of “Hinterzartener Kreis der DFG für Krebsforschung".
Marcus Hacker, MD, is a full Professor and Director of Nuclear Medicine at the Medical University Vienna, Austria. He has 20yrs of experience in clinical and preclinical hybrid Imaging and published more than 150 original papers in the field of cardiovascular and oncological nuclear medicine. His main research focus is nuclear Imaging in the context of personalized and targeted treatment strategies. Prof. Hacker is member of the board of directors of the German Society of Nuclear Medicine (DGN) and president elect of the Austrian society of nuclear medicine. He is chair of the cardiovascular committee of the EANM and member of the EANM advisory council. Prof. Hackers own scientific work was awarded with the Dagmar-Eißner-Award (2006) and the Wolfgang-Becker-Award (2007). Prof. Hacker gets research support by Austrian Research Fund FFG, the European Union and by multiple industry cooperations.

Markus Hartenbach was born in 1978 in northern Germany. After having graduated as a medical physician in 2005 at the University of Ulm, Germany and working at the Dep. of Nuclear Medicine of the German Armed Forces Hospital Ulm, Hartenbach gained his doctoral degree in 2006 at the University of Ulm already in the field of prostate cancer research (topic: "\([^{11}\text{C}]\) choline PET / CT in primary prostate cancer"). During this time he developed and conducted as principal investigator a prospective clinical phase III trial on combined \([^{18}\text{F}]\)Fluoroethylcholine(FEC)-PET/MRI in primary prostate cancer (EudraCT no.: 2006-003933-33; Clinical Trials.gov NCT00520546) which served as the reference trial for the official authorization of this radiopharmaceutical. Hartenbach is a certified clinical trial co- and principal investigator by the Competence Center for Clinical Trials (KKS) of the University of Tübingen. In parallel, he gathered preclinical experience in the field of radiobiology and radiation effects working together with the preclinical research lab of the Ludwig-Maximilians-University of Munich, Department of Nuclear Medicine. In this scope he developed and carried out the pre-clinical cooperation project "Multimodal imaging for the detection, localization and prognostic estimation of an exposure by ionizing..."
irradiation”. After taking the position of the divisional head of the PET/MRI unit at the Medical University of Vienna in 2014, he developed and established the prospective randomized clinical phase III trial on $^{68}$Ga-PSMA$^{\text{HBED-CC}}$ conjugate 11 in primary prostate cancer on an integrated PET/MRI system (RAPID study), approved by the national drug authorities and ethics committee (Clinicaltrials.gov: NCT02611882; EudraCT 2014-004758-33) which was launched in 2016. As a founding member, he is part of the Ludwig Boltzmann Institute for Applied Diagnostics, which was granted in 2015, being responsible for prostate cancer imaging in the clinical trial track of this institute.

Harry Hendrikse started his study Pharmacy at the State Univ. of Utrecht and passed his Pharmacist examination in 1994 (Pharm.D). From 1994-1999 he worked as Ph.D. student on the State University Groningen (The Netherlands). He got his Ph.D.-degree on the thesis entitled: "Dynamics of multidrug resistance; analyses with PET and single photon imaging" (promotors Prof. dr. E.G.E. de Vries and Prof. dr. W. Vaalburg). After finishing his Ph.D., he worked as post-doc at the PET Center of the University of Washington Medical Center in Seattle (USA). Thereafter, he started his training as Hospital Pharmacist at the University Hospital Groningen and he is registered as Hospital Pharmacist/Pharmacologist since 2002. Since that time, he worked at the PET center and the Hospital Pharmacy of the University Medical Center in Groningen (The Netherlands). Since 2005, he is a Staff member of the Departments of Clinical Pharmacology & Pharmacy and Radiology & Nuclear Medicine at VU University Medical Center (VUmc) in Amsterdam (The Netherlands). Since 2013 he is also professor in Clinical Radiopharmacology at VUmc. He has a special interest in tumor drug targeting by imaging radiolabeled small molecules using positron emission tomography (PET). Furthermore, he is responsible for the production and quality aspects of PET radiopharmaceuticals, including small molecules and monoclonal antibodies. He is project leader of many oncological radiopharmacological (pre)clinical studies at VUmc and published many peer reviewed manuscripts in international journals.
Lukas Heukamp MB PhD is a Board certified Pathologist as well as a trained molecular biologist (PhD). The focus of his long-standing research is the genomic stratification of cancer patients for novel targeted therapeutic approaches. He is Chief Medical Officer of NEO New Oncology GmbH (recently acquired by Siemens Healthineers) and Board certified Pathologist at the Institute of Hematopathology Hamburg. He acts as a speaker for diagnostics of the German lung cancer network NOWEL.org that recently pioneered comprehensive molecular diagnostics based on liquid biopsy for lung cancer patients. He is the author of numerous peer-reviewed publications on targeted cancer therapies and molecular diagnostics.

Peter A. Jones was born in Cape Town, raised and attended college in Rhodesia (now Zimbabwe), and received his Ph.D. from the University of London. He joined the University of Southern California in 1977 and served as Director of the USC Norris Comprehensive Cancer Center between 1993 and 2011. He is currently the Chief Scientific Officer of Van Andel Research Institute (VARI) in Grand Rapids, Michigan. His laboratory discovered the effects of 5-azacytidine on cytosine methylation and first established the link between DNA methylation, gene expression and differentiation. He pioneered the field of epigenetics, particularly its role in cancer, and helped develop novel therapies for cancer. He has published more than 300 scientific papers and received several honors, including the Outstanding Investigator Grant from the National Cancer Institute. He and his colleague Dr. Stephen Baylin shared the Kirk A. Landon Award for Basic Cancer Research from the AACR in 2009 and the Medal of Honor from the American Cancer Society in 2011. Dr. Jones is a past President of the American Association for Cancer Research and was elected a Fellow of the AAAS in 2009 and a Fellow of the Academy of the AACR in 2013. In 2016, he was elected a member of the National Academy of Sciences.
Jenny Karlsson, Ph.D. Chemistry/Biochemistry, Head, TCR Biochemistry, Thorium Conjugate Res., Bayer AS
Targeted Thorium Conjugates (TTCs) have the potential to deliver localized cell-killing power of alpha-particle emission directly to tumor cells by combining the highly potent alpha-particle emitter, thorium-227. Advantages of TTCs are the lack of cellular resistance mechanisms to alpha-particle emission and their ability to kill non-dividing cells. A specific chelator technology has been developed to ensure stable binding of thorium-227 to targeting molecules such as monoclonal antibodies. Jenny Karlsson head of the Biochemistry group at the Thorium Conjugate Research department in Oslo, Bayer AS. 10 years of industrial experience in the field of protein engineering, antibody discovery and conjugation technologies, with a PhD in Biochemistry from Göteborgs University. After a year at the Structural Chemistry Laboratory (SCL) Astra Zeneca, Sweden, the opportunity to join Affitech AS, a biotech antibody discovery phage display company, emerged in Norway. Continuing within antibody based therapy, targeted radioimmunotherapy, joined the Thorium Research Dept. at Algeta AS. Latest development of the thorium research with Bayer AS is one project in Phase I, the CD22-TTC within NHL.

Lukas Kenner is a group leader at the Ludwig Boltzmann Institute for Cancer Research focusing on molecular aspects of prostate cancer and supervises a separate research group at the Clinical Institute of Pathology, Medical University Vienna (MUW) and at the University of Veterinary Medicine, Vienna. He studied medicine at the University Graz and received his board certification as Pathologist in 2001. He is an expert in comparative pathology and has published numerous papers in this area. He serves continuously as reviewer for internationally reputed journals. Since 2014 he is Professor for "Pathology of Experimental Animals" in a joint appointment of the Medical University Vienna and the University of Veterinary Medicine, Vienna. He is recipient of several prestigious awards including the Otto-Loewi Scholarship of the Austrian science foundation (1993), the research award of the Austrian Society of Nephrology (1995), the research award of the Hoechst–Foundation (1996), Sanofi-Aventis Award 2010, the Rokitansky award of the Austrian Society of
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Pathology 2010, the Science and Innovations award of the German Society for Hematology and Oncology (DGHO) 2011, the CESAR award of the Central European Society for Anticancer Drug Research (2013), and the Novartis Prizes of the German Society of Pathology, 2013 and 2015.

Adriaan A. Lammertsma, PhD, is head of research of the Department of Radiology & Nuclear Medicine of the VU Univ. Med. Center in Amsterdam. He has been active in PET research since 1979, when he joined the MRC Cyclotron Unit, Hammersmith Hospital in London. Apart from a sabbatical year at UCLA, Los Angeles, he stayed in London until 1996, when he moved to Amsterdam. His research focus has been the development and application of tracer kinetic models for quantitative PET studies. He has worked on applications in neurology, cardiology and oncology. In addition, he was one of the first to recognise the value of PET in both drug development and personalised treatment. He is the 2012 recipient of the Kuhl-Lassen Award from the Society of Nuclear Medicine for “outstanding contributions to the advancement of molecular imaging” and the 2015 recipient of the European Society of Molecular Imaging (ESMI) Award for “his outstanding and excellent contributions to the field of Imaging Science, his commitment and dedication”. A. Lammertsma is co-author of >400 peer reviewed papers.

Oliver Langer studied pharmacy at the University of Vienna, where he graduated with a Master’s degree in 1995. He then obtained a PhD degree at Karolinska Institute in Stockholm, Sweden in 2000, where he specialized in the development of radiotracers for the imaging of neurotransmitter systems with positron emission tomography (PET). Since 2002 he has been employed at the Department of Clinical Pharmacology at the Medical University of Vienna, where he became Associate Professor in Radiopharmaceutical Chemistry in 2006. In 2006, he became senior scientist at Austrian Institute of Technology in Seibersdorf, which is Austria’s largest non-university research organization. In his research, he
uses preclinical and clinical PET to address different questions related to drug disposition and pharmacodynamics.

**Jason S. Lewis** is the Emily Tow Jackson Chair in Oncology at Memorial Sloan Kettering Cancer Center (MSKCC) and currently serves as Vice Chair for Research and as the Chief of the Radiochemistry & Imaging Sciences Service in MSKCC’s Department of Radiology. He is the Director of MSKCC’s Radiochemistry and Molecular Imaging Probe Core Facility and is Director of the MSKCC Center for Molecular Imaging & Nanotechnology. Professor Lewis earned a B.Sc. in Chemistry (1992) and a M.Sc. (1993) in Chemistry from the University of Essex in the laboratory of Professor Jonathan R. Dilworth. He then obtained a Ph.D. in Biochemistry in 1996 from the University of Kent. His postdoctoral work was at the Washington University School of Medicine. Subsequently he joined the faculty as an Assistant Professor at the Mallinckrodt Institute of Radiology (2003-2008). In 2008 he left St. Louis joined MSKCC. He has published over 150 papers, books, book chapters, and reviews in the field of cancer imaging.

**Megan S. Lim,** MD, PhD is the Director of the Joint Division of Hematopathology, Hospital of the University of Pennsylvania and the Children’s Hospital of Philadelphia in the Department of Pathology and Laboratory Medicine. She is also the Director of the Lymphoma Biology Program at the Abramson Cancer Center. Dr. Lim received an MD from the University of Calgary and a PhD in Molecular Oncology from the University of Calgary and National Cancer Institute Lab of Pathology jointly. Dr. Lim obtained her Hematopathology fellowship training at the National Cancer Institute after which she assumed a faculty position at the University of Toronto (1998-2000) and then at the University of Utah (2000-2006). At the University of Michigan (2000-2015) she was the Director of Hematopathology and the Hematopathology Fellowship Program. She has held numerous leadership positions and served on training and education committees for the Association of Molecular Pathology and the United States Academy of Pathology. She is the Vice-Chair of the Non-Hodgkin Lymphoma Disease
Committee of the Children’s Oncology Group and participates in integrated translational research in pediatric lymphoma. Her research interests are focused on elucidating mechanisms involved in lymphoma pathogenesis. She has used large-scale mass spectrometry-based proteomic profiling and genomic analysis to characterize novel pathogenetic mechanisms in lymphomas.

Markus Mitterhauser studied pharmacy at the University of Vienna. After several research stays in Karolinska, Stockholm, Sweden, the Chinese University of Hong Kong and Orsay, France, he received his approbation as pharmacist. In 1998, he got employed at the Medical University of Vienna, where he received his PhD and Habilitation in Radiopharmacy. Since 2012, he has been appointed as Visiting Professor for Radiopharmacy and Experimental Nuclear Medicine at the University of Vienna. Currently, he is director of the Ludwig Boltzmann Institute Applied Diagnostics and heads the Radiopharmacy and Experimental Nuclear Medicine at the Division of Nuclear Medicine, Dept. Biomedical Imaging and Image guided Therapy at the General Hospital of Vienna. He also heads the Radiopharmaceutical Sciences & Functional Imaging Department of MedTECH, University of Applied Sciences in Wiener Neustadt.

Bernd Pichler is head of the Department of Preclinical Imaging and Radiopharmacy, Clinic of Radiology, University of Tübingen, Germany. Dr. Pichler studied electrical engineering with a focus on biomedical engineering and cybernetics at the Technical University of Munich. He finished his diploma thesis in 1997 at the Max-Planck-Institute for Physics, Munich and the Department of Nuclear Medicine, Technical University of Munich, in the field of detector development for small animal positron emission tomography. He earned his PhD in physics at the Department of Nuclear Medicine, Technical University of Munich, in 2002 and subsequently worked as Assistant Biomedical Research Engineer (Assistant Research Professor) in the laboratory of Prof. Dr. Simon Cherry at the Department of Biomedical Organizing Secretariat: BFW, Währinger Gürtel 18-20, 1090 Vienna, Austria, Phone: +43 (0)1 890 44 27, Fax: +43 (0)1 890 44 27-29, Acct. Name: BüFraWi, IBAN: AT951400002410082570, BIC: BAWAATWW, ZVR: 414119277
Engineering, University of California, Davis, USA, for two years. Since 2005 he is head of the Laboratory for Preclinical Imaging and Imaging Technology at the Department of Radiology, University of Tübingen, and received the venia legendi (habilitation in experimental radiology) from the Eberhard Karls University Tübingen in 2007.

In December 2007, Dr. Pichler accepted the call of the University of Tübingen for a full (W3) professorship in “Preclinical Imaging and Imaging Technology”. In 2008 he became head of the Radiopharmacy and in 2011 both, the Laboratory for Preclinical Imaging of the Werner Siemens-Foundation and the Radiopharmacy joined, to become the Department of Preclinical Imaging and Radiopharmacy, with Prof. Pichler as head of the department.

Thomas Pieber is Professor of Medicine, Head of the Division of Endocrinology and Metabolism in the Department of Internal Medicine at Medical University Graz, Graz, Austria. He is also Director of the Institute of Biomedicine and Health Sciences at Joanneum Research in Graz. Since 2015 he also serves as CSO of the newly founded Center for Biomarker Research in Medicine (CBmed). Professor Pieber has written more than 280 original papers and reviews in peer-reviewed journals, and made in excess of 1000 abstract and congress presentations.

In 2009, he was President of the Annual European Association for the Study of Diabetes meeting in Vienna. He is a member of the International Working Group on the Diabetic Foot and a member of the international Cochrane Review Group “Endocrine and Metabolic Diseases”.

Professor Pieber serves as a member of the Scientific Board of the Diabetes and Technology Society (USA) and as member of the Scientific Committee of the European Foundation for the Study of Diabetes (EFSD). In 2010, he received the prestigious Somogyi Award, which recognises the scientific achievement of a person who significantly contributed – either experimentally or clinically – to the better understanding of hypoglycaemia and counter regulatory mechanisms.
Gerald Prager is an Associate Professor of Medicine Board Certified for Internal Medicine and Board Certified for Hematology and Medical Oncology. In 2000 he received his M.D. degree from the University of Vienna. After a Postdoctoral Training at the University of California, San Diego (UCSD) he was a Visiting Professor at the Norris Cancer Center, University of Southern California in 2011. In 2012 became an Associate Professor at the Medical University of Vienna. Nowadays Dr. Prager is Director of the Colorectal Cancer Unit of the Department of Medical Oncology at the Medical University of Vienna. He is a member of the Scientific Committee of ESMO 2018.

The research interest of his lab is focused on (tumor-) angiogenesis via regulation of endothelial cell survival and migration by cell / extracellular-matrix interaction. Through his clinical training for hemato-oncology, he became a member of the sought after group of medical researches. His work is honoured by 19 international awards and resulted in publications in international highly renowned journals. Dr Prager’s young research group is embedded in an international cancer research campus associated with MUV. He leads the program for Precision Medicine of the Comprehensive Cancer Center Vienna.

Kirti Sharma is a leading proteomics researcher, with world-renowned expertise in drug discovery and cell signaling proteomics. Dr. Sharma’s research explores the mechanisms that underlie cellular function and contribute to human disease. Dr. Sharma’s contributions include discoveries in cancer-related cell signaling, generation of mammalian brain proteome atlas, and novel quantitative mass spectrometry methods for proteomics and phosphoproteomics in drug research and development. Dr. Sharma obtained a PhD in Biochemistry in 2006 from Institute for Genomics and Integrative Biology, India working in the area of phosphorylation dependent host-pathogen interaction. During her first postdoc with Prof Axel Ulrich and Dr. Henrik Daub at Max Planck Institute for Biochemistry in Germany, she developed a highly innovative chemical proteomics approach that delivered drug affinity data, which was a major
breakthrough in the field. Dr. Sharma’s patented technology is commercialized through Evotec GmbH and has been integral in many widespread commercial applications for drug discovery research and development.

Dr. Sharma joined Prof. Matthias Mann in 2010 and in her current role as a Project leader at the Max Planck Institute of Biochemistry, she develops and leverages leading edge proteomics technology to deconstruct cellular systems to predict emergent behaviors and translate these discoveries into new medical therapies. Dr. Sharma has developed sensitive and quantitative mass spectrometry-based approaches for quantitative phosphoproteomics (*Cell Reports* 2014), tissue/clinical proteomics (*Nature Neuroscience* 2015 and *Nature Medicine* 2016) and chemical proteomics (*Nature Methods* 2009). Specifically, Dr. Sharma’s research is advancing our ability to identify, understand, and treat serious diseases including cancer, neurodegenerative and infectious diseases.

**Markus Zeitlinger** studied medicine at the Medical University of Vienna and graduated in 2000. He completed his training as specialist in Internal Medicine and Clinical Pharmacology and advanced to his main current position as Head of the Department of Clinical Pharmacology. In 2007 he received his post-graduate diploma in Clinical Research. Beside clinical trial design his scientific interests cover pharmacokinetics and transporters with focus on early phases of clinical research. He has published over 100 peer reviewed publications and book chapters in particular in the areas of antimicrobial agents and vaccines. He works as scientific expert to the EMA where he was actively involved in more than 200 scientific advice procedures given by SAWP/CHMP. Furthermore, he is associate editor of the International Journal of Clinical Pharmacology and Therapeutics and ad hoc reviewer of over 30 journals.
Wir möchten Ihre Erwartungen erneut übertreffen.

Therapieziel: Langzeitüberleben für noch mehr Patienten.¹


¹ OPDIVO®-Fachinformation, in der aktuellen Fassung

Fachkurzinformation siehe Seite XX.

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GENERAL INFORMATION

Congress Venue
Van Swieten Saal, Medical University Vienna, Van Swieten Gasse 1, 1090 Vienna, AUSTRIA, http://vanswieten.saal.meduniwien.ac.at

The Van Swieten Saal can be reached by:
Metro U2, Tram 1, 71, D (stop: Schottentor)
Tram 37, 38, 40, 41, 42 (stop: Schwarzspanierstraße)

Car parking: Votivgarage, Sensengasse
Citybike: Währinger Straße / Boltzmanngasse; Sensengasse / Spitalgasse

The airport “Wien Schwechat” is a 25-minute drive from the Van Swieten Saal and a ride to the city centre takes approximately 10 to 15 minutes.
Badges
Badges must be worn at all times throughout the entire congress and during social events.

Banks and ATM
Banks are usually open from 08:00 – 17:00 hours (weekdays) and are closed during the weekends. There will be ATMs (Automatic Teller Machine) in walking distance to the Van Swieten Saal and all over the city of Vienna. Currency exchange offices can be found at the airport, at the main train station and along the main streets of Vienna.

Churches and Synagogues
Although Vienna (like the rest of Austria) is mostly Catholic, different religions are practiced by many citizens. Catholic, Protestant and Jewish church services are available. Please contact your hotel concierge for current times of services or nearby churches.

Climate
The daytime temperatures end of September linger between 13°-18° Celsius and it may also be rainy and windy during the entire month.

Congress language
The congress language is English. No simultaneous translation will be provided.

Credit Cards
All major credit cards, including Eurocard, Diners, Visa and Mastercard are accepted in restaurants, hotels, shopping-centres and stores. Travel checks can be cashed in most of the banks and exchange offices.

DISCLAIMER
Please note that in the event that the congress is cancelled by the organizers in case of force majeure, the registration fee, hotel deposit and any other service ordered through the registration will be partially refunded or forfeited, subject to the commitments of the congress organizers at that time. You may wish to insure yourself directly against such a risk.
Electricity
The power supply in Austria is 220/240 V. Most electric outlets adhere to the continental standard (Schuko). Appliances from North America require a transformer and British ones an adaptor for the two-pin sockets in use in Austria.

Industry Exhibition
Thursday, September 29 – Friday, September 30, 2016 during the congress hours.

Insurance and Liability
Neither the Organizers nor the Conference Bureau will assume any responsibility whatsoever for damage or injury to persons or property during the Congress. Participants are recommended to arrange for their personal travel and health insurance.

LOST AND FOUND
A lost and found service is available at the registration area. For help in locating property lost outside the Congress Centre, please contact the registration desk.

MEDICAL FACILITIES
Medical assistance and ambulance service will be available throughout the congress.

MOBILE PHONES
The use of mobile phones is forbidden in the lecture hall & exhibition area.

Museums
There are many different museums in Vienna. For prices and opening hours please refer to the hotel reception or any tourist information. Museums and exhibitions are usually closed on Mondays.

Public Transportation Tickets
Public Transportation Tickets can be purchased directly in the Tram (at a slightly higher price) for single rides. 24 hours tickets or tickets for longer periods can be purchased at dedicated counters of the Vienna Public Transportation authority at certain Underground/Tram stations. Please contact the registration desk for further details.
**Exhibition and Lecture hall plan**

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**ATTENTION!**

As the Lecture Hall and the Industry Exhibition are situated in the same room without being separated by soundproof walls we kindly ask all participants as well as Company representatives to join the lectures and continue any networking/conversation at the booth during the breaks.

Thank you!
APPLIED DIAGNOSTICS FOR EFFECTIVE CANCER TREATMENT:
“A Blend of Molecular Pathology, Nuclear Medicine and Clinical Pharmacology”
28.–30. September 2016, Van-Swieten Saal, Medical University Vienna, Austria

Organizing Secretariat: BFW, Währinger Gürtel 18-20, 1090 Vienna, Austria,
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