

Dear colleagues,

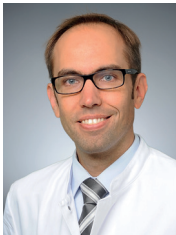
we are delighted to invite you to the second Molecular Imaging of Neurodegeneration Cologne (MINC) symposium with the guiding theme:

A synopsis on translational imaging of neurodegeneration.

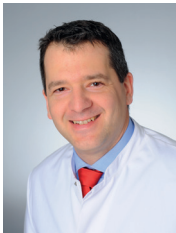
We are pleased to announce a colourful programme comprising numerous talks held by nationally and internationally renowned speakers from different fields of research, including preclinical and clinical imaging, translational neuroscience, and neuroimmunology. Moreover, this time early career scientists will have the opportunity to present their research in a data blitz format.

We are looking forward to welcoming all interested colleagues on October 18th – 19th 2018 in Cologne.

Sincerely,



Prof. Dr. Alexander Drzezga
Director
Department of Nuclear Medicine
University Hospital of Cologne



Prof. Dr. Thilo van Eimeren
Multimodal Neuroimaging Group
Department of Nuclear Medicine
University Hospital of Cologne



October 18th - 19th 2018



Park Inn by Radisson Köln City West
Innere Kanalstraße 15
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For registration and abstract submission, please go to:
minc.uk-koeln.de



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**UNIKLINIK
KÖLN**



2nd MINC-Symposium

From Molecules to System Failure

A synopsis on translational imaging of neurodegeneration

Day 1 - Thursday, October 18th

8:30 Welcome
Alexander Drzezga, Cologne

Session 1 – Cause & Effect of Tau Pathology
Chairs: Drzezga, Cologne; Villemagne, Melbourne

8:35 Highlight Lecture:
Tau-PET, imaging a causal pathology?
Oskar Hansson, Lund, Sweden

9:15 Tau – Cellular function and consequences of dysfunction
Eckhard Mandelkow, Bonn

9:45 Tau-PET in primary tauopathies
James Rowe, Cambridge, UK

10:15 Functional brain architecture is associated with tau spreading
Nicolai Franzmeier, Munich

10:30 Coffee break

Session 2 – Inflammation, Friend or Foe?
Chairs: Barthel, Leipzig; Bischof, Cologne

11:00 The role of neuroinflammation in ageing and neurodegeneration
Delphine Boche, Southampton, UK

11:30 Imaging neuroinflammation in AD
Elena Rodriguez-Vieitez, Stockholm, Sweden

12:00 Imaging neuroinflammation in PD
Alexander Gerhard, Manchester, UK

12:30 Characterising in vivo tau-related white matter changes in AD
Elijah Mak, Cambridge, UK

12:45 Lunch

Session 3 – Transmitter Imaging & Modelling
Chairs: Cross, Salt Lake City; Sabri, Leipzig

14:00 Quantitative PET imaging and why it is so important
Adriaan Lammertsma, Amsterdam, NL

14:30 Serotonergic changes in primate models of PD
Bénédicte Ballanger, Lyon, France

15:00 Central and peripheral neurotransmitter changes in PD
Per Borghammer, Aarhus, Denmark

15:30 MRI-based predictors of cortical cholinergic dysfunction in early AD
Nils Richter, Cologne

15:45 Coffee break

Session 4 – α -Synuclein in Parkinson's Disease
Chairs: Höglinger, Munich; Strafella, Toronto

16:05 Highlight Lecture:
Biomarkers in prodromal PD
Brit Mollenhauer, Göttingen

16:45 α -synuclein: a troublesome traveller
Donato di Monte, Bonn

17:15 α -synuclein tracer development: Where are we?
Bernd Pichler, Tübingen

17:45 Differential diagnosis of Parkinsonism using multivariate metabolic brain network analysis
Tomaž Rus, Ljubljana, Slovenia

Day 2 - Friday, October 19th

8:30 Welcome
Thilo van Eimeren, Cologne

Session 5 - Bio-designed PET Tracers
Chairs: Neumaier, Cologne; Herholz, Manchester

8:35 Cryo-EM structures of tau filaments from the human brain
Michel Goedert, Cambridge, UK

9:05 Single-domain antibodies for diagnosis of AD
Pierre Lafaye, Paris, France

9:35 Antibody-based PET imaging of amyloid in rodents
Stina Syvänen, Uppsala, Sweden

10:05 Neuroimaging predictors of longitudinal cognitive decline in AD: the NIMROD study
Maura Malpetti, Cambridge, UK

10:20 Poster Session with Coffee

Session 6 – Cause & Effect of Amyloid Pathology
Chairs: Boecker, Bonn; Willbold, Jülich

11:00 Amyloid imaging in rodents
Axel Rominger, Bern, Switzerland

11:30 Amyloid in persons at risk of AD
Frank Jessen, Cologne

12:00 Distinct molecular properties underlie regional vulnerability to amyloid deposition and neurodegeneration in AD
Michel Grothe, Rostock

12:15 Lunch

Session 7 – From Diagnosis to Therapy
Chairs: Jessen, Cologne; Nordberg, Stockholm

13:30 New strategies to fight amyloid pathology
Dieter Willbold, Jülich

14:00 Fighting the spread of protein pathology. Are exosomes the key?
Anja Schneider, Bonn

14:30 Targeting tau pathology
Eva-Maria Mandelkow, Bonn

15:00 Predicting individual dopaminergic treatment response in PD with structural MRI
Tommaso Ballarini, Leipzig

15:15 Coffee break

Session 8 – From Damage to Dysfunction
Chairs: Klockgether, Bonn; van Eimeren, Cologne

15:35 Highlight Lecture:
Multimodal MR imaging in rare neurodegenerative diseases
Kathrin Reetz, Aachen

16:15 Functional compensation in rodent models of PD
Heike Endepols, Cologne

16:45 Influence of local tau pathology on hippocampus function
Özgür Onur, Cologne

17:15 Left frontal connectivity attenuates the average effect of tau pathology on memory performance in non-demented elderly subjects
Julia Neitzel, Munich

17:30 Concluding Remarks & Farewell