***Program 8th Researchday Researchers***

***Department of Radiology & Nuclear Medicine***

***February 14, 2020***

08:00 – 08:30 Welcome with coffee/tea and more

08:30 – 08:35 Pitch Talk Joachim Wildberger

**08:35 – 09:30**

**NUTRIM**

***Moderators:***

***Vera Schrauwen & Matthias Bauwens***

08:35 – 08:40 Pitch Talk : Imaging Research with NUTRIM Annemie Schols (video)

08:40 – 08:45 A dynamic PET-MR approach to assess cardiac insulin sensitivity Vera de Wit

08:45 – 08:50 Hepatic lipid composition and hepatic glycogen measured by 1H-MRS Kay Roumans

and 13C-MRS

08:50 – 08:55 31P NMR spectral editing for in vivo NADH/NAD+ quantification Julian Mevenkamp

in human skeletal muscle

08:55 – 09:00 Indirect 13C-MRS for the measurement of the 13C-enrichment of Pandi Veeraiah

hepatic fat in vivo

09:00 – 09:05 The effect of a low compared to a high glycemic index/saturated Jeremy Basset

fatty acid diet on hepatic fat, assessed by MRS

09:05 – 09:10 Carnitine supplementation in type 2 diabetes patients Yvonne Bruls

09:10 – 09:15 The use of CT-scans for the diagnosis of internal herniation after Jeannette Ederveen

gastric bypass surgery

09:15 – 09:25 ***Discussion & Questions***

**09:25 – 10:10**

**GROW**

**Moderators:**

**Felix Mottaghy, Cecile Jeukens & Philippe Lambin**

09:25 – 09:30 Pitch Talk: Free Text Mining in Radiology Reports - First Experiences Martijn Nobel

on Pulmonary Oncology Staging

09:30 – 09:35 Automatic analysis of bone scintigraphy with deep learning Abdalla Ibrahim

09:35 – 09:40 Detecting and delineating suspicious masses in contrast-enhanced Manon Beuque

Mammography (CEM) using a deep learning workflow

09:40 – 09:45 Detection of bone marrow edema in the head and neck using DECT Veronique Timmer

09:45 – 09:50 Early prediction of axillary lymph node response to Kees de Mooij

neoadjuvant systemic therapy with 18F-FDG PET/CT in

clinically node-positive breast cancer patients.

09:50 – 09:55 Automatic detectiona and segmentation of benign and Akshayaa Vaidyanathan

malignant liver lesions

09:55 – 10:00 Radiomics signature of tumour hypoxia Sebastian Sanduleanu

10:00 – 10:10 *Discussion & Questions*

**10:10 – 10:25**

**CAPHRI**

**Moderator:**

**Paul Hofman**

10:10 – 10:15 The clinical relevance of incidental findings detected by post-mortem Max Mentink

computed tomography

10:15 – 10:20 Postmortal imaging in premature lambs Maud Tijssen

10:20 – 10:25 ***Discussion & Questions***

10:25 – 10:45 **Morning Break**

**10:45 – 12:05**

**MHeNs**

**Moderators:**

**Walter Backes & Linda Jacobi**

10:45 – 10:50 Pitch Talk: Imaging Research with MHeNs David Linden

10:50 – 10:55 Measuring increased interstitial fluid diffusion with intravoxel Merel van der Thiel

inchoherent motion

10:55 – 11:00 Blood-brain barrier disruption in normal aging adults Inge Verheggen

11:00 – 11:05 Time-efficient MRI protocol for measuring subtle blood-brain barrier Paulien Voorter

leakage

11:05 – 11:10 Functional imaging of focal dysplasia Volodia Dangouloff-Ros

11:10 – 11:15 The BOLD and the beautiful - The Maastricht Study Laura Vergoossen

11:15 – 11:20 Imaging skull base osteomyelitis Lieke van der Meer

11:20 – 11:25 Quality of brain volume estimates – The Maastricht Study Jennifer Monereo Sanchez

11:25 – 11:30 Sodium imaging in kneecartilage Esther Steijvers

11:30 – 11:35 Automatic diagnosis of MS on quantitative MR and/or standard MR Elizaveta Lavrova

11:35 – 11:40 Phantom development for MRI validation studies: Update Rick Voncken

11:40 – 11:55 ***Discussion & Questions***

11:55 – 12:55 **Lunch**

**12:55 – 13:25**

**CARIM**

**Moderators:**

**Eline Kooi & Joachim Wildberger**

12:55 – 13:00 Pitch Talk: Imaging with Research CARIM Tilman Hackeng

13:00 – 13:05 Cardiovascular PET Jochem van der Pol

13:05 – 13:10 Magnetic resonance imaging (MRI) of carotid plaques for tailored treatment Mohamed Kassem

of stroke patients

13:10 – 13:15 MR based PET motion correction Mueez Aizaz

13:15 – 13:20 Earlier detection of aortic dissection and aneurysm rupture Mitch Ramaekers

13:20 – 13:25 Endovascular treatment of acute stroke for late arrivals based on Anne Pirson

collateral flow; an update of MR CLEAN LATE

13:25 – 13:30 Cost-effectiveness MR CLEAN LATE Floor Pinckaers

13:30 – 13:40 ***Discussion & Questions***

13:40 – 13:50 Key Note Lecture: Breaking the Barrier, the Thrills and Chills of Grant Capture Jaap Jansen

13:50 – 14:00 Key Note Lecture: AMACING Estelle Nijssen

14:00 – 14:10 ***Discussion & Questions***

14:10 – 14:25 Prize winning ceremony

14:25 – 15:00 **Drinks and more**