

Education

September 2009 PhD from University of Aarhus *"Introducing the galactose analogue 2-[¹⁸F]fluoro-2-deoxy-D-galactose as a positron emission tomography tracer for non-invasive studies of human liver function. A translational study in pigs and humans"*.

January 2005: MD, University of Aarhus, Denmark.

February 2002 – January 2003: Research student at the PET Centre and Department of Experimental Clinical Oncology, Aarhus University Hospital *"Assessment of tissue hypoxia in experimental mouse tumours"*.

Employment

November 2009 – present: Post.doc. at the PET Centre, Aarhus University Hospital, Denmark.

May 2009 – October 2009: Registrar in General Medicine.

November 2008 – April 2009: Registrar at Department of Surgery L (Gastroenterology), Aarhus University Hospital, Aarhus, Denmark.

April 2005 – October 2008: Research associate at the PET Centre and Medical Dept. V (Hepatology), Aarhus University Hospital and University of Aarhus.

February – March 2005: Research assistant at the PET Centre, Aarhus University Hospital. Scholarship from Institute of Clinical Medicine, University of Aarhus.

July – September 2004: Pre-graduate registrar at the PET Centre, Aarhus University Hospital.

May – August 2003: Pre-graduate registrar at the PET Centre, Aarhus University Hospital.

February 2002 – January 2003: Research student at the PET Centre and Department of Experimental Clinical Oncology, Aarhus University Hospital. Scholarship from the Danish Medical Research Council. Exam passed with diploma.

Invited lectures

September 2010: 14th ISHEN Symposium (International Society on Hepatic Encephalopathy and Nitrogen Metabolism), Montreal, Canada.
"Blood-brain barrier in cirrhosis: hints from neuroimaging"

June 2010: Mini-symposium at Nordic Gastroenterology Congress (NGC)/Nordic Digestive Disease Week, Copenhagen, Denmark.
"Functional molecular imaging of liver tumours"

March 2010: Centre for Advanced Imaging, University of Queensland, Brisbane, Australia.

"PET imaging of liver physiology and liver tumours"

April 2008: Institute of Clinical Physiology National Research Council (CNR), Pisa, Italy.

"Liver PET in Aarhus – physiological approaches and current results"

October 2007: Workshop at EANM's annual meeting (European Association of Nuclear Medicine), Copenhagen, Denmark.

"¹⁸F-deoxy-galactose metabolism in normal and malignant liver tissue"

May 2005: DASL's Spring Meeting (Danish Association for the Study of the Liver), Aarhus, Denmark.

"Dynamic ¹⁸F-labeled galactose PET of pig livers"

May 2004: DASL's spring meeting.

"Preliminary results for ¹³N-ammonia and H₂¹⁵O PET scans of patients with hepatic encephalopathy"

Participation in scientific meetings With oral presentation (as first author)

June 2011: SNM's annual meeting (Society of Nuclear Medicine), San Antonio, USA.

"Correct calculation of the lumped constant" (Animal data)

September 2010: World Molecular Imaging Congress 2010 (WMIC), Kyoto, Japan.

"[¹⁸F]Fluoro-2-deoxy-2-galactose has great potential as a PET tracer for detection of hepatocellular carcinoma. A prospective, consecutive study in 40 patients"

June 2008: DASL's annual meeting (Danish Association for the Study of the Liver), Copenhagen, Denmark.

"Detection of hepatocellular carcinoma using FDGal PET/CT"

April 2008: 13th ISHEN (International Society for Hepatic Encephalopathy and Nitrogen Metabolism", Padova, Italy.

"Ammonia backflux from brain to blood in humans with and without hepatic encephalopathy"

September 2007: DASL's annual meeting, Copenhagen, Denmark.

"FDG-PET improves management of patients with colorectal liver metastases allocated for local treatment: A consecutive prospective study"

June 2007: SNM's annual meeting, Washington DC, USA.

"¹⁸FDGal PET can measure regional liver function in pigs"

September 2005: DASL's annual meeting, Copenhagen, Denmark.

"Dynamic ¹⁸FDGal PET of pig livers"

June 2005: "12th ISHE (International Symposium on Hepatic Encephalopathy), Schloss Burg, Germany.

"Metabolism of ¹³N-ammonia in Cirrhosis Patients with or without Hepatic Encephalopathy and in Healthy Subjects"

With poster presentation (presenting author)

September 2011: 2011 World Molecular Imaging Congress (WMIC), San Diego, CA, USA.

1) *"Hepatic Galactose Metabolism Quantified in Humans using 2-[¹⁸F]fluoro-2-deoxy-D-galactose PET/CT" – Awarded a Travel Stipend.*

2) *"Correct calculation of the lumped constant" (Human data).*

October 2010: The Liver Meeting, American Association for the Study of Liver Diseases (AASLD), Boston, MA, USA.

"Imaging hepatocellular carcinoma with 2-[¹⁸F]fluoro-2-deoxy-D-galactose PET/CT".

April 2010: The International Liver Congress, EASL (European Association for the Study of the Liver), Vienna, Austria.

1) *"Human ¹³N-ammonia PET: The importance of measuring ¹³N-ammonia metabolites in blood" – Awarded a Registration Bursary.*

2) *"Reproducibility of measuring regional liver function using the novel [¹⁸F]fluoro-2-deoxy-galactose (FDGal) PET/CT method".*

September 2009: 2009 World Molecular Imaging Congress (WMIC), Montreal, Canada

1) *"Imaging of hepatocellular carcinoma with [¹⁸F]fluoro-2-deoxy-galactose PET/CT has a high sensitivity" – awarded a Travel Stipend.*

2) *"Determination of Hepatic galactose elimination capacity in pigs using [¹⁸F]fluoro-2-deoxy-galactose PET/CT. Reproducibility of the method"*

June 2008: EASL Monothematic Conference on Liver Cancer: From Molecular Pathogenesis to New Therapies, Prague, Czech Republic – Awarded Young Investigator Bursary.

"Imaging Hepatocellular Carcinoma with ¹⁸F-Deoxy-Galactose PET has a High Sensitivity"

May 2008: Turku PET Symposium 2008, Turku, Finland – awarded Young Investigator Award.

"Hepatic uptake and metabolism of galactose can be quantified by in vivo 2-[¹⁸F]fluoro-2-deoxy-galactose positron emission tomography"

April 2008: EASL's annual meeting, Milan, Italy.

"Imaging of hepatocellular carcinoma with ¹⁸F-deoxy-galactose PET has a high sensitivity"

April 2007: EASL, Barcelona, Spain – awarded Young Investigator Bursary.

"Clearance and Metabolism of ¹³N-Ammonia in Cirrhosis Patients with and without Hepatic Encephalopathy and in Healthy Controls"

September 2005: DASL's annual meeting (Danish Association for the Study of the Liver), Copenhagen, Denmark.

- 1) *"Metabolism of ¹³N-ammonia in Cirrhosis Patients with or without Hepatic Encephalopathy and in Health"*
- 2) *"¹³N-Ammonia PET of Acute Hepatic Encephalopathy in Cirrhosis Patients: Brain Capillary Permeability and Metabolism of Ammonia"*

June 2005: 12th International Symposium on Hepatic Encephalopathy and Nitrogen Metabolism (12th ISHE), Schloss Burg, Germany.
"Metabolism of ¹³N-ammonia in Cirrhosis Patients with or without Hepatic Encephalopathy and in Healthy Subjects"

April 2005: EASL's annual meeting, Paris, France.
"¹³N-Ammonia PET of Acute Hepatic Encephalopathy in Cirrhosis Patients: Brain Capillary Permeability and Metabolism of Ammonia"

June 2003: SNM's annual meeting (Society of Nuclear Medicine), New Orleans, USA
"Uptake of deoxyglucose and ¹⁸F-Misonidazole (FMISO) in two mice tumour models measured by PET and autoradiography, compared with oxygenation status and necrotic fraction"

With presentation (co-author, not presenting author)

April 2009: EASL (European Association for the Study of the Liver), Copenhagen, Denmark.

October 2008: The Liver Meeting, American Association for the Study of Liver Diseases (AASLD), San Francisco, CA, USA.

November 2007: The Liver Meeting, AASLD, Boston, MA, USA.

November 2006: The Liver Meeting, AASLD, Boston, MA, USA.

November 2005: The Liver Meeting, AASLD, San Francisco, CA, USA.

October 2004: The Liver Meeting, AASLD, Boston, MA, USA.

March 2004: Liver Tumour Day, Aarhus University Hospital, Aarhus, Denmark.

February 2004: DASL's annual meeting (DASL), Copenhagen, Denmark.

May 2002: Turku PET Symposium 2002, Turku, Finland.

Without presentations

May 2010: BiGart2010 (Biology-Guided adaptive radiotherapy), Aarhus, Denmark.

February 2010: First Nordic Educational Symposium on Neuroendocrine Tumors, Sigtuna, Sweden.

October/November 2009: The Liver Meeting, (AASLD), Boston, MA, USA.

Research stays abroad

One month or more:

March 2011, March 2010, February 2008, March 2007, and October-November 2005: Department of Mathematics, University of Queensland, Brisbane, Australia.

Less than a month:

May 2009 and October 2008: Department of Mathematics, University of Queensland, Brisbane, Australia.

March 2009: Department of Hepatology, University College London, London, UK.

April 2008: Institute of Clinical Physiology National Research Council (CNR), Pisa, Italy.

January 2006: Department of Medicine (Hepatology), University of Padua, Italy.

May 2002: Turku PET Centre, Turku, Finland.

Selected courses attended

June 2009: "ESPEN 4th Intensive Course in Tracer Methodology in Metabolism", Clermont-Ferrand, France. Organized by The European Society for Clinical Nutrition and Metabolism".

January 2007: "Hepatology 2007", The UCL Institute of Hepatology, Royal Free & UCL Medical School, Royal Free Hospital, Sheila Sherlock Postgraduate Centre, London, UK.

April 2006: "EANM learning course on PET and PET/CT in oncology", postgraduate course by European Association of Nuclear Medicine, Vienna, Austria.

January 2006: "EASL Basic School of Hepatology", postgraduate, Torino, Italy.

July 2002: "XIV Annual PET Pharmacokinetic Course", Amsterdam, Netherlands.

PhD-courses include courses in medical statistics, animal welfare in research and courses in medical research and more.

Several postgraduate courses and more than 20 workshops at international scientific meetings.

Other activities

Part of round-table discussion "*Ammonia and HE: facts and fantasy*" at the 14th ISHEN Symposium (International Society on Hepatic Encephalopathy and Nitrogen Metabolism).

Chairman at the Ph.D.-Day, Aarhus University, January 2010.

Member of European Advisory Board "Treating hepatic encephalopathy"
organized by Norgine April 2009, Copenhagen, Denmark.

Peer-review for several scientific journals.

Co-editing the E-book (with Susanne Keiding) "Functional Molecular Imaging in
Hepatology", Bentham Publ.

Memberships

European Association for the Study of the Liver (EASL)

Danish Association for the Study of the Liver (DASL)

Intl. Society on Hepatic Encephalopathy and Nitrogen Metabolism (ISHEN)

Danish Medical Society

The Jutland Medical Society

European Neuroendocrine Tumor Society (ENETS)