

CV

MIKAEL MONTELIUS, PhD

Licensed Medical Physicist & Doctor of Philosophy in medical sciences

PhD thesis: **Multiparametric MRI for evaluation of tumour treatment response - Studies of ¹⁷⁷Lu-octreotate therapy of neuroendocrine tumour**
available at <http://hdl.handle.net/2077/44927>

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Personal information:

First name: Mikael
Surname: Montelius
Date of birth: 1979-01-06
Gender: Male

Place of Birth: Stockholm, Sweden
Nationality: Swedish
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ORCID ID <https://orcid.org/0000-0001-9103-3446>

CURRENT EMPLOYMENTS:

2019 – Present: Imaging specialist (33 %) at Antaros Medical AB, BioVenture Hub located at AstraZeneca, Mölndal, Sweden

2017 – Present: Researcher (25 %) at the dept. of Radiation Physics, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden

2017 – Present: Research engineer (42 %) at the dept. of Radiology, University of Gothenburg – Research and development at the pre-clinical MR facility at the institute of clinical sciences, Gothenburg, Sweden

EDUCATIONS:

2008 – 2016: Graduate studies in medical science at the Sahlgrenska Academy, University of Gothenburg. Dissertation: Dec 9 2016

PhD project title: *Multiparametric MRI for evaluation of tumour treatment response Studies of ¹⁷⁷Lu-octreotate therapy of neuroendocrine tumour*

2005 – 2008: Medical Physics Programme at the Sahlgrenska Academy, University of Gothenburg - Licensed to practice as Medical Physicist: 2008-03-14

Master thesis: *Matlab tool for segmentation and re-creation of ¹H-MRS volumes of interest in MRI image stacks* (studies performed on clinical Philips MR system at Sahlgrenska university hospital)

2002 – 2005: Bachelor of Science in Engineering Physics Programme at Mälardalen University, Västerås, Sweden. Degree of Bachelor of Science: 2005-10-04

Bachelor thesis: *An analytical study on the phenomenon of negative index of refraction*

1995 – 1998: Natural Science Programme with natural science orientation at the Rudbeckianska high school in Västerås, Sweden

ADDITIONAL QUALIFICATIONS:

Languages: Swedish as mother tongue, fluid in oral and written English and basic in oral and written German

Computer skills: Advanced level skills in Microsoft Office Suite and MATLAB including the MATLAB programming language, and experienced user of the ParaVision software associated with the preclinical MR system

Pulse Programming Licence for ParaVision software acquired at Bruker Biospin, Ettlingen in 2019

PRIOR WORK EXPERIENCE:

2008 – 2016: PhD student employment at the Sahlgrenska Academy, University of Gothenburg – dissertation was on the 9th of Dec 2016

2015 – 2016: Research engineer at the dept. of Radiation Physics, University of Gothenburg - Project based employment for the establishment and running of a pre-clinical MR facility at the institute of clinical sciences.

2010 – 2015: Part time employed as service technician on the 7 T Bruker pre-clinical MRI system at EBM (Laboratory for Experimental Biomedicine), Core Facilities, the Sahlgrenska Academy, University of Gothenburg

2007: Summer employment as insurance clerk at the Folksam insurance company, dept. of engine and vehicle damages, Gothenburg, Sweden –invoicing and registration

2002 – 2007: Weekend and summer employment as Dispatch clerk at ICA Sverige Inc., Västerås, Sweden – functioned as fork lift driver for loading and dispatching foodstuff to grocery stores

2000 – 2002: Assembly line worker at KablageProduktion Inc., Västerås, Sweden – functioned as assembler in a project group for customer requirement feasibility assessments

2000: Service man at the engineering workshop at Yamaha Center, Västerås, Sweden – functioned as workshop repair/service man, mail order and cashier staff

1998 – 1999: Assembly line worker at ABB Power Systems, division of HVDC (High-voltage direct current), Ludvika, Sweden – functioned as assembler and solder of circuit boards

ADDITIONAL INFORMATION

Military service: 11 months as a guard group commander at the Gotland coastal artillery (KA3) of the Swedish Armed Forces

COMMISSION OF TRUST

2015:
Member of the organizing committee of SWE-RAYS'15 (Swedish Radiation Research Association for Young Scientists) conference, Gothenburg, Sweden, 2015 – assignment: Chairman of the program committee.

2015:
Scientific Sessions Chair at SWE-RAYS'15 (Swedish Radiation Research Association for Young Scientists) conference, Gothenburg, Sweden, 2015

2015:

Host at SWE-RAYS'15 (Swedish Radiation Research Association for Young Scientists) conference, Gothenburg, Sweden, 2015

TEACHING/LECTURING & EXPERIENCES AS SUPERVISOR

2020: Co-supervisor of PhD student Lukas Lundholm, Project: *Development, validation and application of advanced diffusion MRI methods for tumor tissue characterization and response assessment*

2020: Co-supervisor of master of thesis student Louise Rosenqvist, Project: *Exploring the temporal characteristics of intravoxel incoherent motion*

2019: Invited Speaker at the “Cancerfondens planeringsgrupp för radionuklidterapi”, title: *MR for evaluation of treatment response*, Wallenberg Conference centre, University of Gothenburg, Sweden

2019: Demonstration of preclinical MRI research, Course name: Magnetic Resonance Tomography: Introduction and Applications, Institute of clinical sciences, Sahlgrenska Academy, University of Gothenburg – 1.5 ETCS

2018: Main supervisor of master of thesis student Lukas Lundholm, Project: *Development, validation and application of a method for determination of metabolite concentrations with preclinical magnetic resonance spectroscopy*

2016 - 2018: Teaching and laboratory supervision in the MR physics course, Medical Physics Programme, dept. of Radiation Physics, Institute of Clinical Sciences, the Sahlgrenska Academy, University of Gothenburg, Sweden - 7.5 ETCS

2015: Invited speaker at the joint educational seminar of the division of Medical Physics and Medical Engineering (MFT) at Sahlgrenska University Hospital and the dept. of Radiation Physics, Institute of Clinical Sciences, the Sahlgrenska Academy, University of Gothenburg, Sweden

2012: Master thesis Opponent at a Medical Physicist dissertation held at the Medical Physics Programme, the Sahlgrenska Academy, University of Gothenburg
Thesis title: *Impact of scanner and sequence type on fractional anisotropy metric*
Responding student: Madeleine Nylund, M.Sc.

2010 - 2015: Course director (course development, teaching, laboratory supervision and examination included) in the MR physics course in the Medical Physics Programme at the dept. of Radiation Physics, Institute of Clinical Sciences, the Sahlgrenska Academy, University of Gothenburg, Sweden - 7.5 ETCS

2008, 2010-2015: Lecturer and laboratory supervisor in the Radiation & technology II course at the Nursing Programme at the Sahlgrenska Academy, University of Gothenburg, Sweden - 7.5 ETCS

2010: Invited speaker at the Molecular imaging in cancer higher education course held at the dept. of Radiation Physics, Institute of Clinical Sciences, the Sahlgrenska Academy, University of Gothenburg, Sweden - 3 ETCS

Referee for scientific journals

2020: NMR in BioMedicine

Additional achievements

Awarded the annual Assar Gabrielsson *best thesis of the year* price in basic science, with a price sum of 100 000 SEK for future research projects

AQUIRED GRANTS & STIPENDS

2019: The Assar Gabrielsson research grant, FB19-50, *Development of MR-methods for early assessment of tumor response to therapy* **95 000 SEK**

2019: The Assar Gabrielsson *best thesis of the year* price in basic science **100 000 SEK**

2019: The King Gustav V Jubilee Clinic Research Foundation – travel grant for oral presentation at the ESMRMB 2019 conference in Rotterdam, The Netherlands. Title: *Cluster-based evaluation of T2* for early and longitudinal tumor radiotherapy response assessment in a small-intestine neuroendocrine tumor model.* **20 383 SEK**

2019: The Sahlgrenska University Hospitals Research Foundations - Research funding for project entitled *Development of MR-methods for early assessment of tumour response to therapy (SU-895371)* **50 000 SEK**

2019: The Assar Gabrielsson Foundation – travel grant for oral presentation at the ESMRMB conference in Rotterdam, The Netherlands. Title: *Cluster-based evaluation of T2* for early and longitudinal tumor radiotherapy response assessment in a small-intestine neuroendocrine tumor model.* **6 000 SEK**

2018: The Sahlgrenska University Hospitals Research Foundations - Research funding for project entitled *Development of MR-methods for early assessment of tumour response to therapy (SU-792651)* **50 000 SEK**

2018: Trainee Stipend from the Joint ESMRMB & ISMRM 26th Annual Meeting in Paris, France **5 000 SEK**

2018: The King Gustav V Jubilee Clinic Research Foundation – travel grant for poster presentation at the Joint ESMRMB & ISMRM conference in Paris, France. Title: *Comparison of in vivo MRS and ex vivo HR-MAS MRS for assessment of metabolite content in the GOT1 small intestine neuroendocrine tumour model* **16 534 SEK**

2018: The Assar Gabrielsson Foundation – travel grant for poster presentation at the Joint ESMRMB & ISMRM conference in Paris, France. Title: *Comparison of in vivo MRS and ex vivo HR-MAS MRS for assessment of metabolite content in the GOT1 small intestine neuroendocrine tumour model.* **6 000 SEK**

2017: Trainee Stipend from the ISMRM 25th Annual Meeting in Honolulu, HI, USA **5 200 SEK**

2017: The King Gustav V Jubilee Clinic Research Foundation – travel grant for oral presentation of two abstracts at the ISMRM conference in Honolulu, HI, USA. Titles: *Multiparametric MRI with spatiotemporal evaluation reveals potential therapy response biomarkers for ¹⁷⁷Lu-octreotate therapy of mice with human neuroendocrine tumor* and *Multiparametric MR for assessment of tissue characteristics of small intestine neuroendocrine tumor evaluated by histological correlation* **30 657 SEK**

2017: The Assar Gabrielsson Foundation – travel grant for oral presentation of two abstracts at the ISMRM conference in Honolulu, HI, USA. Titles: *Multiparametric MRI with spatiotemporal evaluation reveals potential therapy response biomarkers for ¹⁷⁷Lu-octreotate therapy of mice with human neuroendocrine tumor* and *Multiparametric MR for assessment of tissue characteristics of small intestine neuroendocrine tumor evaluated by histological correlation* **12 000 SEK**

2016: The King Gustav V Jubilee Clinic Research Foundation – travel grant for presentation of poster at RRS, Waikoloa Village, HI, USA. Title: *Multiparametric MRI (mpMRI) for spatiotemporal characterization of tumor tissue response to radionuclide treatment* **19 000 SEK**

2016: The Sahlgrenska University Hospitals Research Foundations - Research funding for project entitled *Development of MR-methods for early assessment of tumour response to therapy* **55 000 SEK**

2016: The Assar Gabrielsson Foundation – travel grant for presentation of poster at RRS, Waikoloa Village, HI, USA. Title: *Multiparametric MRI (mpMRI) for spatiotemporal characterization of tumor tissue response to radionuclide treatment* **12 000 SEK**

2015: The Assar Gabrielsson Foundation - Research funding for project entitled *Utveckling och optimering av magnetresonanstekniker (MR) för uppföljning och prediktion av behandlingsresultat vid tumörbehandling med radionuklidterapi* **47 000 SEK**

2015: The King Gustav V Jubilee Clinic Research Foundation – travel grant (2015:08) for oral presentation at ESMRMB, Edinburgh, UK. Title: *IVIM reveals increased blood perfusion of liver metastases after oral intake of Salovum®* **24 400 SEK**

2015: The Assar Gabrielsson Foundation – travel grant (RB15-37) for oral presentation at ESMRMB, Edinburgh, UK. Title: *IVIM reveals increased blood perfusion of liver metastases after oral intake of Salovum®* **6 000 SEK**

- 2014:** The King Gustav V Jubilee Clinic Research Foundation – travel grant for presentation of e-poster at EANM, Gothenburg, Sweden. Title: *Diffusion weighted MRI for non-invasive in-vivo assessment of radionuclide treatment effects on solid GOT1 tumors* **3 888 SEK**
- 2014:** The King Gustav V Jubilee Clinic Research Foundation – travel grant for oral presentation at the Swedish Cancer Society organization group for oncological radionuclide therapy winter meeting, 2015, Umeå, Sweden. Title: *Radiation induced effects on the solid GOT1 tumor model measured non-invasively using diffusion weighted magnetic resonance imaging* **6 500 SEK**
- 2014:** The Assar Gabrielsson Foundation – travel grant for presentation of poster at RRS, Las Vegas, USA. Title: *Non-invasive, in vivo assessment of radiation induced effects on solid GOT1 tumors using diffusion weighted magnetic resonance imaging* **12 000 SEK**
- 2014:** The Sahlgrenska University Hospitals Research Foundations - Research funding for project entitled *Development of MR-methods for early assessment of tumour response to therapy* **40 000 SEK**
- 2013:** The Assar Gabrielsson Foundation - Research funding for project entitled *Development of MR-methods for early assessment of tumour response to radionuclide therapy* **39 000 SEK**
- 2012:** The Assar Gabrielsson Foundation – travel grant for presentation of poster at EANM, Milan, Italy. Title: *Optimal ROI Size for Parameter Determination in IVIM Imaging* **6000 SEK**
- 2012:** The King Gustav V Jubilee Clinic Research Foundation – travel grant for presentation of e-poster at ESMRMB, Lisbon, Portugal. Title: *Optimal ROI Size for IVIM Imaging Parameter Determination* **18 237 SEK**
- 2012:** The Royal Society of Arts and Sciences in Gothenburg (KVVS) - Research funding for project entitled *Development of MR-methods for early assessment of tumour response to therapy* **25 000 SEK**
- 2012:** The Wilhelm and Martina Lundgren science foundation - Research funding for project entitled *Assessment of tumor therapy response using MR-methods* **65 000 SEK**
- 2012:** The Sahlgrenska University Hospitals Research Foundations - Research funding for project entitled *Development of MR-methods for early assessment of tumour response to therapy* **30 000 SEK**
- 2011:** The Assar Gabrielsson Foundation - Research funding for project entitled *Development of MR-methods for early assessment of tumour response to treatment* **39 000 SEK**
- 2011:** The King Gustav V Jubilee Clinic Research Foundation – travel grant for presentation of e-poster at ESMRMB, Leipzig, Germany. Title: *Determination of small tumor volumes in mice using MRI.* **12 928 SEK**
- 2007:** The Adlerbert student foundations – student stipend **18 000 SEK**

PUBLICATION LIST**Published articles:**

Sandblom V, Spetz J, Shubbar E, **Montelius M**, Ståhl I, Swanpalmer J, Nilsson O, Forssell-Aronsson E, *Increased therapeutic effect on medullary thyroid cancer using a combination of radiation and tyrosine kinase inhibitors*, PLOS ONE, PONE-D-20-00504R1

PONE-D-20-00504R1

Sandblom V, Spetz J, Shubbar E, **Montelius M**, Ståhl I, Swanpalmer J, Nilsson O, Forssell-Aronsson E, *Gemcitabine potentiates the anti-tumour effect of radiation on medullary thyroid cancer*, accepted for publication in PLOS ONE, PONE-D-19-07780R2

Jalnefjord O, **Montelius M**, Arvidsson J, Forssell-Aronsson E, Starck G, Ljungberg M, *Data-driven identification of tumor subregions based on intravoxel incoherent motion reveals association with proliferative activity*, Magnetic Resonance in Medicine, 2019, DOI: 10.1002/mrm.27820

Montelius M, Jalnefjord O, Spetz J, Nilsson O, Forssell-Aronsson E, Ljungberg M, *Multiparametric MR for non-invasive evaluation of tumour tissue histological characteristics after radionuclide therapy*, NMR in Biomedicine, 2019, DOI: 10.1002/nbm.4060

Oscar Jalnefjord, Mats Andersson, **Mikael Montelius**, Göran Starck, Anna-Karin Elf, Viktor Johanson, Johanna Svensson, Maria Ljungberg
Comparison of methods for estimation of the intravoxel incoherent motion (IVIM) diffusion coefficient (D) and perfusion fraction (f), Magnetic Resonance Materials in Physics, Biology and Medicine, 2018, DOI: <https://doi.org/10.1007/s10334-018-0697-5>

Montelius M, Spetz J, Jalnefjord O, Berger E, Nilsson O, Ljungberg M, Forssell-Aronsson E, *Identification of potential MR derived biomarkers for tumour tissue response to ¹⁷⁷Lu-octreotate therapy in an animal model of small intestine neuroendocrine tumour*, Translational Oncology, 2018, DOI: 10.1016/j.tranon.2017.12.003

John-Olov Jansson, Vilborg Palsdottir, Daniel A Hägg , Erik Schéle , Suzanne L Dickson , Fredrik Anesten , Tina Bake , **Mikael Montelius** , Jakob Bellman , Maria E. Johansson , Roger D. Cone (2010), Daniel J Drucker , Jianyao Wu , Biljana Aleksic , Anna E Törnqvist , Klara Sjögren , Jan-Åke Gustafsson (2002), Sara H Windahl , Claes Ohlsson
A body weight homeostat that regulates fat mass independently of leptin in rats and mice, PNAS, 2017, DOI: 10.1073/pnas.1715687114

Gustafsson O, **Montelius M**, Starck G, Ljungberg M
Impact of prior distributions and central tendency measures on Bayesian intravoxel incoherent motion model fitting, Magnetic resonance in medicine, 2017 June 19, DOI: 10.1002/mrm.26783

Johanna Dalmo, Johan Spetz, **Mikael Montelius**, Britta Langen, Yvonne Arvidsson, Henrik Johansson, Toshima Z Parris, Khalil Helou, Bo Wängberg, Ola Nilsson, Maria Ljungberg, Eva Forssell-Aronsson, *Priming increases the anti-tumor effect and therapeutic window of*

¹⁷⁷Lu-octreotate in nude mice bearing human small intestine neuroendocrine tumor GOT1, EJNMMI Research, 2016 (EJRE-D-16-00073R2)

Montelius, M., Ljungberg, M., Horn, M. and Forssell-Aronsson E., *Tumour size measurement in a mouse model using high resolution MRI*, BMC Medical Imaging, 2012 (12):12. doi:10.1186/1471-2342-12-12

Submitted/ongoing manuscripts:

Elin Schoultz, Ellen Johansson, Carmen Moccia, Iva Jakubikova, Naveen Ravi, Shawn Liang, Therese Carlsson, Mikael Montelius, Konrad Patyra, Jukka Kero, Kajsa Paulsson, Henrik Fagman, Martin Bergö, and Mikael Nilsson
Modeling sporadic thyroid cancer in vivo reveals spatiotemporal control of tumor initiation and cooperative clonal growth, Cancer Discovery, submitted
Manuscript ID: CD-19-1467

Early assessment of external beam radiotherapy response in an animal model of small-intestine neuroendocrine tumour (GOT1) using VERDICT modelling of diffusion MR data, Manuscript

MRI for longitudinal assessment of the micro-environment in 3D-gridded bio-implant structures in mice, Manuscript

The VERDICT diffusion MR model for characterization and therapy response assessment in neuroendocrine tumors treated with external beam radiotherapy, Manuscript

Johan Spetz; **Mikael Montelius**; Evelin Berger; Carina Sihlbom; Maria Ljungberg; Khalil Helou; Ola Nilsson; Eva Forssell-Aronsson *Profiling proteomic responses in small intestinal neuroendocrine tumor GOT1 after ¹⁷⁷Lu-octreotate therapy* Submitted to Molecular Cancer

Conference publications:

Lundholm L, **Montelius M**, Jalnefjord O, Shubbar E, Forssell-Aronsson E, Ljungberg M, *VERDICT and kurtosis modelling of diffusion MRI for early assessment of radiotherapy response in a mouse model of human neuroendocrine tumour*, Digital poster at the digital International Society for Magnetic Resonance in Medicine (ISMRM-2020) annual meeting, August 8-14, 2020

Montelius M, Lundholm L, Jalnefjord O, Shubbar E, Forssell-Aronsson E, Ljungberg M, *Multiparametric MRI with cluster analysis for early assessment of radiotherapy response in a human small-intestine neuroendocrine tumor model*, Digital poster at the digital International Society for Magnetic Resonance in Medicine (ISMRM-2020) annual meeting, August 8-14, 2020

Amoroso M, **Montelius M**, Apelgren P, Säljö K, Gatenholm P, Strid Orrhult L and Kölby L,

In vivo MRI of 3D bioprinted cartilage constructs, Accepted for Oral presentation at the Tissue engineering & regenerative medicine conference, TERMIS, 2019, Orlando, Florida, USA

Montelius M (presenting author), Lundholm L, Jalnefjord O, Shubbar E, Swanpalmer J, Forssell-Aronsson E, Ljungberg M, *Cluster-based evaluation of T2* for early and longitudinal tumor radiotherapy response assessment in a small-intestine neuroendocrine tumor model*, Oral presentation at the European Society for Magnetic Resonance in Medicine and Biology (ESMRMB), 2019, Rotterdam, The Netherlands

Lundholm L (presenting author), **Montelius M**, Jalnefjord O, Shubbar E, Swanpalmer J, Forssell-Aronsson E, Ljungberg M, *Early assessment of external beam radiotherapy response in an animal model of small-intestine neuroendocrine tumour (GOT1) using VERDICT modelling of diffusion MR data*, Oral presentation at the European Society for Magnetic Resonance in Medicine and Biology (ESMRMB), 2019, Rotterdam, The Netherlands

Montelius M., Spetz J., Bernin D., Jalnefjord O., Ljungberg M. and Forssell-Aronsson E., *Comparison of in vivo MRS and ex vivo HR-MAS MRS for assessment of metabolite content in the GOT1 small intestine neuroendocrine tumour model*. Poster presentation at the Joint annual meeting ISMRM-ESMRMB, June 16-21, 2018, Paris, France

Oscar Jalnefjord, Mats Andersson, **Mikael Montelius**, Anna-Karin Elf, Viktor Johanson, Johanna Svensson, Göran Starck, Maria Ljungberg, *IVIM D and f - Optimal estimation technique and their potential for tissue differentiation*, 2018, Joint annual meeting ISMRM-ESMRMB, June 16-21, 2018, Paris, France

Spetz J., Berger E., **Montelius M.**, Forssell-Aronsson E.
Proteomic analysis as a tool for discovery and assessment of biomarkers for therapeutic response in GOT1 tumors in vivo after ¹⁷⁷Lu-octreotate therapy.
Poster presentation at the Radiation research society (RRS) 63rd annual meeting, October 15-18, 2017, Cancun, Mexico

Gustafsson O., **Montelius M.**, Starck G., Ljungberg M.
Impact of prior distribution and central tendency measure on bayesian IVIM model fitting.
Poster presentation at the International Society for Magnetic Resonance in Medicine (ISMRM) 25th annual meeting, April 22-27, 2017, Honolulu, HI, USA

Montelius M., Spetz J., Gustafsson O., Berger E., Nilsson O., Ljungberg M., Forssell-Aronsson E.
** Multiparametric MRI with spatiotemporal evaluation reveals potential therapy response biomarkers for ¹⁷⁷Lu-octreotate therapy of mice with human neuroendocrine tumor*.
Oral presentation at the International Society for Magnetic Resonance in Medicine (ISMRM) 25th annual meeting, April 22-27, 2017, Honolulu, HI, USA

*Abstract awarded with the *ISMRM Magna Cum Laude Merit Award*

Montelius M., Gustafsson O., Spetz J., Nilsson O., Forssell-Aronsson E., Ljungberg M.
**Multiparametric MR for assessment of tissue characteristics of small intestine neuroendocrine tumour (siNET) evaluated by histological correlations*

Oral presentation at the International Society for Magnetic Resonance in Medicine (ISMRM) 25th annual meeting, April 22-27, 2017, Honolulu, HI, USA

*Abstract awarded with the *ISMRM Magna Cum Laude Merit Award*

Montelius M., Spetz J., Ljungberg M., Forssell-Aronsson E.
Multiparametric MRI (mpMRI) for spatiotemporal characterization of tumor tissue response to radionuclide treatment

Poster presentation at the Radiation research society (RRS) 62nd annual meeting, October 16-19, 2016, Waikoloa Village, HI, USA

Spetz J., **Montelius M.**, Ljungberg M., Helou K., Forssell-Aronsson E.
Spatial proteomic analysis of GOT1 human small intestine neuroendocrine tumor in nude mice following ¹⁷⁷Lu-octreotate therapy

Poster presentation at the Radiation research society (RRS) 62nd annual meeting, October 16-19, 2016, Waikoloa Village, HI, USA

Gustafsson O., **Montelius M.**, Starck G., Ljungberg M.

An assessment of bayesian IVIM model fitting.

Poster presentation at the International Society for Magnetic Resonance in Medicine (ISMRM) 24th annual meeting, May 07-13, 2016, Suntec City, Singapore

Gustafsson O., **Montelius M.**, Ljungberg M.

Improved IVIM model fitting with non-rigid motion correction.

Poster presentation at the International Society for Magnetic Resonance in Medicine (ISMRM) 23rd annual meeting, May 30 – June 5, 2015, Toronto, Ontario, Canada

Montelius M., Gustafsson O., Andersson M., Forssell-Aronsson E., Hultborn R., Ottosson S., Carlsson G., Lange S., Ljungberg M.

IVIM reveals increased blood perfusion of liver metastases after oral intake of Salovum®

Oral presentation at the European Society for Magnetic Resonance in Medicine and Biology (ESMRMB), 2015, Edinburgh, Scotland, UK

Montelius M., Ljungberg M., Forssell-Aronsson E.

Radiation induced effects on the solid GOT1 tumor model measured non-invasively using diffusion weighted magnetic resonance imaging

Oral presentation at the Swedish Cancer Society organization group for oncological radionuclide therapy winter meeting, 2015, Umeå, Sweden

Montelius M., Ljungberg M., Forssell-Aronsson E.

Non-invasive, in-vivo assessment of radiation induced effects on solid GOT1 tumors using diffusion weighted magnetic resonance imaging

Traditional Poster presentation at RRS-2014 conference, Las Vegas, Nevada, USA

Montelius M., Ljungberg M., Forssell-Aronsson E.

Diffusion weighted MRI for non-invasive in-vivo assessment of radionuclide treatment effects on solid GOT1 tumors

Traditional Poster presentation at EANM-2014 conference, Gothenburg, Sweden

Montelius M., Ljungberg M., Forssell-Aronsson E.

Optimal ROI Size for Parameter Determination in IVIM Imaging

Traditional Poster presentation at EANM-2012 conference, Milano, Italy

Montelius M., Ljungberg M., Forssell-Aronsson E.

Optimal ROI Size for IVIM Imaging parameter determination

Electronic Poster presentation at ESMRMB-2012 conference, Lisbon, Portugal

Montelius M., Ljungberg M., Forssell-Aronsson E.

Determination of small tumor volumes in mice using MRI.

Electronic Poster presentation at ESMRMB-2011 conference, Leipzig, Germany

Montelius M., Ljungberg M., Forssell-Aronsson E.

MATLAB tool for segmentation and re-creation of IH-MRS volumes of interest in MRI image stacks

Electronic Poster presentation at ESMRMB-2009 conference, Antalya, Turkey

HIGHER EDUCATION COURSES:

“Tumour Biology”, 1.5 ETCS, The Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden, 2014

“Introduction to research”, 15 ETCS, The Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden, 2009

“Molecular imaging in cancer”, 3 ETCS, The Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden, 2010

“Medical statistics, continuation course”, 5 ETCS, The Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden, 2010

“Detectors, dosimeters and measurement methods for ionizing radiation”, 10 ETCS, The Lund University, Malmö, Sweden and the Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden

“Dosimetry for ionizing radiation”, 7.5 ETCS, University of Lund, Malmö, Sweden

“Interaction of ionizing radiation with matter”, 12 ETCS, Karolinska Institutet, Stockholm, Sweden

“Small animal MR imaging and spectroscopy”, Norwegian University of Science and Technology (NTNU), Trondheim, Norway, 2009

“Molecular Imaging”, DiMi, Münster, Germany, 2008

“Lectures on MR 2010, Small Animal MR Imaging and Spectroscopy” ESMRMB school of MRI, Eindhoven, The Netherlands, 2010

“AIC” (Advanced Imaging Course) at Bruker corporation (vendor of small animal MR systems), Ettlingen, Germany, 2013

“SDM” (software development mode) course held by Philips (vendor of clinical MR systems)