

Name Helle Juhl Simonsen

Date of Birth 14.07.59

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Qualifications: Cert. Biomedical Laboratory Scientist, 1982,
Amager Hospital, Copenhagen

Oct. '87 –Aug. '06: Research MRT, Biomedical Laboratory Scientist
Danish Research Centre for Magnetic Resonance
Copenhagen University Hospital, Hvidovre
Kettegårds Allé 30
DK-2650 Hvidovre
Denmark

Current Position: Research MRT, Biomedical Laboratory Scientist
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2600 Glostrup
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(Aug. '06 – present)

Helle Juhl Simonsen graduated as a Biomedical Laboratory Scientist in 1982 in Copenhagen, Denmark. She started at the first MR center in Denmark, Danish Research Center for Magnetic Resonance (DRCMR), back in 1987. From the beginning, she was very interested in research and has supported many Ph.d. students with data recording and analysis. She is experienced with both human and pre-clinical studies using MR imaging, spectroscopy, diffusion, perfusion and fMRI in field strength from 1T to 7T. She was working on the DRCMR until 2006, where she changed to her current position as Research MRT at the Functional Imaging Unit (FIU) Rigshospitalet, Glostrup, University of Copenhagen. Helle's main research focus area is neurological diseases. At the FIU, she work in a team of researchers, which have a long term of experience of investigating neuroscience and neural diseases using MRI and functional MR. Helle is also MR safety officer at the department, she teach internal and external employees and she have the responsibility to train and examine new students in MR safety before they can start using the scanner. By the end of 2016 and the beginning of 2017 Helle was trained and approved to use the National 7T MRI scanner at Hvidovre hospital. Since 1987, Helle has been member of the Danish Society for Magnetic Resonance, where she was member of the Policy Board from 2006-2011 and again from 2017- present. She is member of the European Society for Magnetic Resonance in Medicine and Biology (ESMRMB), where she serves some of their committees. Helle has been a member of the ISMRM, which later on was changed to a membership of SMRT, since 2001. She was member of the SMRT Policy Board from 2011-2014, from 2012-2014 as chair of the Global Relation. Helle has served and serves several SMRT committees: 2013-2014 member of SMRT Nominations Committee, 2014-2015 member of SMRT Social Media Sub Committee and SMRT Membership Committee, 2015-2016 member of SMRT Membership Committee, SMRT Nominations Committee, External Relations Sub-Committee- and Publications Committee, Awards and Nominations Committee and SMRT Abstract Committee. 2015-2020 member of Global Relations. 2016-2019 member of SMRT Local Chapters Committee 2018-2019 as vice chair. She became member of ISMRM & SMRT/Nordic Chapter in 2012, member of the board as SMRT representative in 2013 and was in 2016 elected as treasure. 2018- 2020 Helle is elected as SMRT representative in the ISMRM white matter study group. 2019-2022 member of the MR safety committee

Helle have participated in all ISMRM meetings since 1997, except for the meeting in 1998 in Australia and all SMRT meetings since 2001

Helle has more than 80 accepted abstracts as first author or co-author; these abstracts are presented to both national and international conferences and some of them as oral presentations. She have presented 19 abstracts as first author for the SMRT meetings, two of those abstracts were elected as oral presentations and were nominated to a 3rd place award in the category of Research Focus Proffered Paper and two others were elected as oral poster presentations and were nominated to a 3rd place award in the category of Clinical Focus Poster Award. Helle's award winning abstracts have been presented in Signals where she also has written an article. Helle is author or co-author of 14 articles published in both national and international journals, she have arranged 13 courses, two of those courses as main organizer

and chair, one of those was a 2 day well attended ISMRM & SMRT Nordic Chapter course in Copenhagen in Marts 2015.

Helle has been an invited speaker and has teach at several courses, she has for example two times been teaching about MR methods and research at the diploma program for technologist in Copenhagen and two times she have teaching technologist in how they can be more involved in research. Helle has through her contacts and friends in SMRT started collaboration between the University of Cincinnati, USA and Functional Imaging Unit (FIU), Rigshospitalet, Glostrup, Denmark. She has in 2014, 2015 and 2018 been visited by two to three students and the associated Professor in Copenhagen. During the students stay in 2015, they completed a research study and abstract entitled "Comparison of Functional MRI Activation between Finger Tapping and Motor Imagery Finger Tapping". For this abstract one of the students received in 2016 at the SMRT meeting in Singapore the John A. Koveleski Award for Professional Development.

Helle has in 2016 the honor to be elected for a research grant by the Laboratory Medicine Society for Biomedical Laboratory Scientist. She got the grant for her MR Research and was chosen between technologists working in different areas. It is the second time that Helle receives this honor; she was also elected in 2011.

In 2017 Helle has the honor to be nominated for the SMRT Fellow of the Society Award.

In 2018 was Helle elected as board member in White Matter Study group as SMRT representative.

1987 member of the Danish Society for Magnetic Resonance

Marts 2006 – marts 2011 member of the Policy Board for Danish Society for Magnetic Resonance www.drcmr.dk

Marts 2017- member of the Policy Board for Danish Society for Magnetic Resonance, chair of the administration and membership

2001 Member of International Society for Magnetic Resonance in Medicine (ISMRM)/ Section for MR Technologist (SMRT).

2011- 2014 member of the Policy Board for Section for Magnetic Resonance Technologists

2012- 2014 chair of the Global Relation Committee

2013 member of the SMRT Nominations Committee

2014 member of the SMRT Social Media Sub Committee and SMRT Membership Committee

2015 member of the SMRT Membership Committee. SMRT Nominations Committee, External Relations Sub-Committee- Global Relations and Publications Committee.

2016-2017 member of the SMRT Awards and Nominations Committee, SMRT Abstract Committee and SMRT Local Chapter committee.

2017-2019 member of the SMRT Local Chapters Committee, 2018 elected as vice chair.

2018-2020 member of the Global Relation committee

2018- 2020 elected as SMRT representative in the ISMRM white matter study group.

2019-2022 member of the MR safety committee

January 2012-2019 Member of the ISMRM Nordic Chapter Policy Board

2016- Elected as treasure

2014 member of European Society for Magnetic Resonance in Medicine and Biology (ESMEMB)

2014-2017 member of Members and Services Committee

2014 member of Structure and Governance Committee

Publications:

Articles:

Bioanalytikere på MR afdelingen.

Danske bioanalytikere, nr. 15, 6. August 1999

Als spredtes baglæns fra nervefibre til nervecellekrop

H. Simonsen

DBIO nr.11, 2004

Corticospinal tract degeneration and possible pathogenesis in ALS evaluated by MR diffusion tensor imaging.

S. Rosenbaum, M. Karlsborg, M.R. Wiegell, H. Simonsen, H. B. W. Larsson, O. Gredal

ALS and other motor neuron disorders 2004, 5, 136-140

Avanceret pre-klinisk Magnetisk Resonans billedannelse og spektroskopi

DBIO nr1, 2006

In vivo study of experimental pneumococcal meningitis using magnetic resonance imaging

Christian T Brandt , Helle Simonsen , Matthew Liprot , Lise V Sogaard , Jens D. Lundgren , Christian Ostergaard ,

Niels Frimodt-Møller and Ian J Rowland

BMC Medical Imaging 2008, 8:1doi

Retinal nerve fiber layer thickness is associated with lesion length in acute optic neuritis

K. Kallenbach, H. Simonsen, B. Sander, B. Wanscher, H. Larsson, M. Larsen, J.L. Frederiksen

Neurology 2010;74:252–258

Artikkel om MR skanner

H. Simonsen

DBIO Nr 6-7 2011 side 18-21

Retinal atrophy correlates with fMRI response in patients with recovered optic neuritis

D. Fuglø, K. Kallenbach, A. Tsakiri, H. Simonsen, B. Sander, A.E. Hansen, E. Rostrup, J. Frederiksen

Neurology, 2011;77:645–651

Evaluation of dynamic contrast-enhanced T1-weighted perfusion MRI in the differentiation of tumor recurrence from radiation necrosis

Vibeke A. Larsen, Helle J. Simonsen, Ian Law, Henrik B. W. Larsson, Adam E. Hansen

Neuroradiology (2013) 55:361–369

Funktionel Magnetisk Resonans Imaging

Helle J. Simonsen

DBIO, Danske bioanalytikere, 03/13 si 22-23

Abnormal blood-brain barrier permeability in normal appearing white matter in multiple sclerosis investigated by MRI

S.P. Cramer, H. Simonsen, J.L. Frederiksen, E. Rostrup, H.B.W. Larsson

NeuroImage: Clinical 4 (2014) 182–189

Study of medication-free children with Tourette Syndrome do not show imaging abnormalities

Signe Søndergaard Jeppesen, Nanette Mol Debes, Helle Juhl Simonsen, Egill Rostrup, Henrik B.W Larsson, Liselotte Skov

Journal of Movement Disorder, 2014

Permeability of the Blood-Brain Barrier predicts conversion from Optic Neuritis to Multiple Sclerosis

Cramer SP, Modvig S, Simonsen HJ, Frederiksen JL, Larsson HB.

Brain.2015 Sep;138 (Pt 9):2571-83.

Blod-hjerne-barrierens tæthed forudsiger udviklingen af multipel sclerose efter opticus neurit

Cramer SP, Modvig S, Simonsen HJ, Frederiksen JL, Larsson HB.

BestPractice, Neurology september 2016

Permeability of the Blood–Brain Barrier Predicts No Evidence of Disease Activity at 2 Years after Natalizumab or Fingolimod Treatment in Relapsing–Remitting Multiple Sclerosis
Stig P. Cramer, MD, PhD, Helle J. Simonsen, BMS, Aravinthan Varatharaj, BMCh, Ian Galea, MD, PhD,
Jette L. Frederiksen, MD, DMSc, Henrik B. W. Larsson, MD, DMSc
Annal of Neurologi 2018;83:902-914

Blod-hjerne-barriere permeabilitet forudser to-års behandlingseffekten af Natalizumab eller Fingolimod ved relapsing-remitting multipel sklerose
Simonsen HJ, Cramer SP, Frederiksen JL, Larsson HB.
BestPractice, Neurology, februar 2019

Lectures:

Magnetic Resonance used as a reach tool.

Metropolitan University College, Copenhagen November 2008

Magnetic Resonance safety procedure - a training program for research students

DSMMR's annual meeting, Middelfart, Denmark April 2011

Magnetic Resonance

Metropolitan University College, Copenhagen, December 2011

fMRI, blood oxygenation provides activated areas of the brain. Laboratory Medical Society for laboratory technologists's annual congress, Middelfart, Denmark November 2012

Quality control on your MR system

DSMMR's annual meeting, Vejle, Denmark April 2013

Dynamic Contrast-Enhanced T1-Weighted Perfusion in Clinical use

DSMMR's annual meeting, Comwell Kellers Park, Vejle, Denmark. April 2014

Teaching on DBIO's course: "How do you get technologists more involved in research"

Aarhus University hospital, Denmark. 2014

Functional Magnetic Resonance Imaging Studies

PBA Symposium, Glostrup University Hospital (April 2015)

Biomedical Laboratory Scientists function in the Radiology section

Symposium for Biomedical Laboratory Scientists, Rigshospitalet, Copenhagen (May 2015)

The MR scanner is not only an imaging tool –

Biomedical Laboratory Scientists function and research on the MR scanner (April 2015)

"Research disturbs the profession"

LSB theme day and LabDays in Aarhus (September 2015)

Hvordan søger vi fondsmidler?

Faggruppemøde for Bioanalytikere og Radiografer

Afdelingen for klinisk fysiologi, nuklearmedicin og PET, Rigshospitalet (Februar 2016)

Abstract, poster, PowerPoint præsentation

DBIO kurset: "Få gang i forskning"

Århus kommunehospital, Danmark, (April 2016)

MRI scans of sclerosis patients now and in the future

LSB theme day and LabDays in Aarhus (September 2017)

Få gang i udviklingsprojekter, egne erfaringer

DBIO kursus, København oktober 2017

Claustrophobia – one of the most common reasons for a non-completed MRI scan.

Philips Nordic MR Forum, Copenhagen, Denmark. (June 2018)

Forsknings og udviklingsprojekter med MR

Undervist på diplommodulet i klinisk fysiologi og nuklearmedicin, Metropol København.

(November 2018).

Præoperativ funktionel MRI mht. sproglokalisation hos epilepsi patienter

DSMMR's forårsmøde, Hotel Best Western, Vejle, (marts 2019)

Organized courses:

Magnetic Resonance Symposium, Functional Imaging Unit, Glostrup Hospital, Copenhagen, January 2007

Danish Society for Magnetic Resonance, one day course, Hotel Hesselet, Nyborg, Marts 2007

Danish Society for Magnetic Resonance, one day course, Torvehallerne, Vejle, Marts 2008

Danish Society for Magnetic Resonance, one day course, Hotel Ebeltoft Strand, Ebeltoft, Marts 2009

NordForsk Research Training course: Exploring Brain activation with BOLD imaging, Faculty of Health Sciences University of Copenhagen, Blegdamsvej, Copenhagen, September 2010

Danish Society for Magnetic Resonance, one day course, Middelfart Byggecentrum, Middelfart, Marts 2010

Danish Society for Magnetic Resonance, MR Clinical Basis Course, a four day course, Frederikskaj, Copenhagen, June 2010 (Organizer and chair).

Magnetic Resonance Symposium, Functional Imaging Unit, Glostrup Hospital, Copenhagen, February 2011

Danish Society for Magnetic Resonance, one day course, Middelfart Byggecentrum, Middelfart, April 2011

Perfusion Symposium, Nordic Neuro Lab and Functional Imaging Unit, Glostrup Hospital, Copenhagen, January 2012

Diagnostic Departments research day, Glostrup Hospital, Copenhagen, April 2014 (chair)

DSMMR & ISMRM Nordic Chapter joint meeting, MRI from head to toe, Glostrup University Hospital, Copenhagen, Denmark. (Chair of the local organizing committee) March 2015

ISMRM Nordic Chapter meeting, Emerging MR techniques, Akademiska Sjukhuset and Uppsala University, Uppsala, Sweden, June 2016 (organizer and monitor of one of the session)

Danish Society for Magnetic Resonance annual meeting, Torvehallerne, Vejle, March 2018

ISMRM Nordic Chapter meeting, Nordic MRI research -in a changing world, Kvinne-Barn Senteret – KBA, St. Olavs Hospital, Trondheim, Norway. October 2018

Danish Society for Magnetic Resonance annual meeting, Torvehallerne, Vejle, March 2019

Awards:

May 2004: Pathogenesis of Corticospinal tract degeneration in ALS patients by Diffusion Tensor Imaging
SMRT Thirteenth Annual Meeting, Kyoto Convention Centre, Kyoto Japan
3rd place award in the category of Research Focus Proffered Paper.

April 2009: Magnetic Resonance Imaging and Optical Coherence Tomography obtained in patients with acute Optic Neuritis
SMRT 18th Annual Meeting Hawai'i Convention Centre, Honolulu, Oahu, USA.
3rd place award in the category of Research Focus Proffered Paper.

May 2011: Dynamic Contrast-Enhanced T1-Weighted Perfusion in Clinical use
SMRT 20th Annual Meeting; Montréal, Québec, Canada
3rd Place Clinical Focus Poster Award

May 2012: Experience with 3T, 32-channel Head Coil and Multi Transmit
in the diagnosis of Malignant Melanomas in the eye
SMRT 21th Annual Meeting; Melbourne, Victoria, Australien
3rd Place Clinical Focus Poster Award

May 2016: Comparison of Functional MRI Activation between Finger Tapping and Motor Imagery Finger Tapping
Co-Investigators: Kelsey Wineland, BS, CNMT, RT(MR), Rachel Young, BS, CNMT, RT(MR)
Sub-Investigators: Helle Juhl Simonsen, Barry Southers, M.Ed, RT(R)(MR), Ulrich Lindberg, PhD
Glostrup University Hospital Functional Imaging Unit (FIU), Copenhagen, Denmark
University of Cincinnati Advanced Medical Imaging Technology (AMIT) Program, Cincinnati, Ohio, USA
2016 John A. Koveleski Award for Professional Development, (præsenteret som oral poster præsentation af Helle Simonsen)
SMRT 25th Annual Meeting, Suntec Convention & Exhibition Centre, Singapore

April 2017: Recognizes and designates as Fellow of the Society for MR Radiographers and Technologists, for significant and substantial contributions to the mission of the SMRT.

ISMRM and SMRT meetings:

ISMRM Fifth Scientific Meeting and Exhibition, Vancouver, Canada, April 1997

ISMRM Seventh Scientific Meeting and Exhibition, Philadelphia, Pennsylvania, USA, May 1999

ISMRM Eighth Scientific Meeting and Exhibition, Denver, Colorado, USA, April 2000

SMRT Tenth Annual Meeting, Glasgow, Scotland, UK, April 2001

ISMRM 9th. Scientific Meeting and Exhibition, Glasgow, Scotland, UK, April 2001

ISMRM Weekend Educational, Honolulu, Hawaii, USA, May 2002

ISMRM Tenth Scientific Meeting and Exhibition, Honolulu, Hawaii, USA, May 2002

SMRT Twelfth Annual Meeting, Metro Toronto Convention Centre, Toronto, Ontario, Canada, July 2003

ISMRM Eleventh Scientific Meeting and Exhibition, Metro Toronto Convention Centre, Toronto, Ontario, Canada, July 2003

ISMRM Workshop on MR Technology to Assess MS Pathology In Vivo, San Servolo, Venice, Italy, October 2003

SMRT Thirteenth Annual Meeting, Kyoto Convention Centre, Kyoto Japan, May 2004

ISMRM Twelfth Scientific Meeting and Exhibition, Kyoto Convention Centre, Kyoto Japan, May 2004

ESMRMB 21st Annual Meeting Copenhagen, Denmark, September 2004

SMRT Fourteenth Annual Meeting, Miami Beach Convention Centre, Miami, Florida, May 2005

ISMRM Thirteenth Scientific Meeting and Exhibition, Miami Beach Convention Centre, Miami, Florida, May 2005

SMRT Fifteenth Annual Meeting, Washington State Convention & Trade Center, Seattle, Washington, USA, May 2006

ISMRM Fourteenth Scientific Meeting and Exhibition, Washington State Convention & Trade Center, Seattle, Washington, USA, May 2006

SMRT 16th Annual Meeting, Berlin International Congress Center, Berlin, Germany, May 2007

ISMRM Fourteenth Scientific Meeting and Exhibition 15th Annual Meeting, Berlin International Congress Center, Berlin, Germany, May 2007

SMRT 17th Annual Meeting, Metro Toronto Convention Centre, Toronto, Ontario, Canada, May 2008

ISMRM Fifteenth Scientific Meeting and Exhibition, Metro Toronto Convention Centre, Toronto, Ontario, Canada, May 2008

SMRT 18th Annual Meeting Hawaii Convention Center, Honolulu, Oahu, USA, April 2009

ISMRM 17th Scientific Meeting and Exhibition Hawaii Convention Center, Honolulu, Oahu, USA, April 2009

SMRT 19th Annual Meeting, Stockholmsmässan AB (Stockholm International Fairs), 125 80 Stockholm Sweden, May 2010

ISMRM 18th Scientific Meeting and Exhibition, Stockholmsmässan AB (Stockholm International Fairs), 125 80 Stockholm Sweden, May 2010

SMRT 20th Annual Meeting, Palais des congrès de Montréal, Montréal, Québec, Canada, May 2011

ISMRM 19th Scientific Meeting and Exhibition, Palais des congrès de Montréal, Montréal, Québec, Canada, May 2011

SMRT 21th Annual Meeting, Melbourne, Victoria, Australien, May 2012

ISMRM 20th Scientific Meeting and Exhibition, Melbourne, Victoria, Australien, May 2012

ISMRM workshop, MR Safety, now and in the future, Lund, Sweden, September 2012

SMRT 22th Annual Meeting, Melbourne, Salt Lake, Utah, USA, May 2013

ISMRM 21th Scientific Meeting and Exhibition, Melbourne, Salt Lake, Utah, USA, May 2013

ESMRMB 30st Annual Meeting Toulouse, France, October 2013

SMRT 23th Annual Meeting, Milano, Italy, May 2014

Joint Annual Meeting ISMRM-ESMRMB, ISMRM 22th Scientific Meeting and Exhibition, Milano, Italy, May 2014

DSMMR & ISMRM Nordic Chapter joint meeting, MRI from head to toe, Glostrup University Hospital, Copenhagen, Denmark, Marts 2015, Chair of the local organizing committee

SMRT 24th Annual Meeting, Toronto, Ontario, Canada, June 2015

ISMRM 23th Scientific Meeting and Exhibition, Toronto, Ontario, Canada, June 2015

ESMRMB 32nd Annual Meeting, Edinburgh/UK, October 2015

ESMRMB MR-Safety course, Lund University Hospital, Sweden

SMRT 25th Annual Meeting, Singapore, May 2016

ISMRM 24th Scientific Meeting and Exhibition, Singapore, May 2016

ISMRM Nordic Chapter meeting, Emerging MR techniques, Akademiska Sjukhuset and Uppsala University, Uppsala, Sweden, June 2016 (organizer and monitor of one of the session)

Magnims Workshop: "The role of the Blood Brain Barrier (BBB) in early MS. Copenhagen Admiral Hotel, Toldbodgade 24-28, Copenhagen, November 2016

SMRT 26th Annual Meeting, Hawaii, April 2017

ISMRM 25th Scientific Meeting and Exhibition, Hawaii, May 2017

ESMRMB 34nd Annual Meeting, Barcelona, Spain, October 2017

MRI Safety Seminar by dr. Kanal, Hotel Scandic, Copenhagen, January 2018

SMRT 27th Annual Meeting, Paris, June 2018

ISMRM 26th Scientific Meeting and Exhibition Paris, June 2018

4th Annual Trondheim MRI Seminar, Clinical 7T –From brain to body and
ISMRM Nordic Chapter meeting, Nordic MRI research -in a changing world,
Kvinne-Barn Senteret – KBA, St. Olavs Hospital, Trondheim, Norway, September 2018

SMRT/CAMRT MR Learning Labs: Accelerated MRI Using Compressed Sensing, Marts 2019

SMRT 28th Annual Meeting, Montreal, May 2019

ISMRM 27th Scientific Meeting and Exhibition Montreal, May 2019