

Curriculum vitae - Reidun Torp

Personal Information

Born: 24.08.55 - Norway
Citizenship: Norwegian
Education: MSc (1991) PhD (1995)
Division of Anatomy-Dep of Molecular Medicine-Ins of Basic Medical Sciences,
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Education

1996-97: Postdoctoral fellow at the Department of Anatomy, University of Oslo.
1995- PhD in Neurobiology, Department of Anatomy, University of Oslo.
1990- M.Sc in Cellbiology, Dept of Bioscience, University of Oslo.
1978-80 Oslo Technical school, Chemistry

Current and Previous positions

2013-present Associate Professor, University of Oslo
2004-2013: Research Scientist, CMBN, University of Oslo
2001-2003: Research Scientist, Institute of Basic Medical Sciences, University of Oslo.
1997-2001: Associate Researcher, Institute of Brain Aging and Dementia, University of California, Irvine, USA (appointment).
1996-97: Postdoctoral fellow at the Department of Anatomy, University of Oslo.
1995-96: Researcher for popular science, Norwegian broadcasting systems.
1991-95: PhD student at the Department of Anatomy, Institute of Basic Medical
1980-1988: Technician at the Norwegian collage of Veterinary Medicine

Fellowship and Awards

FUGE grant, CMBN scientist Norwegian Research Council (RO1 equivalent); Civitan Norway (research support); Parkinson association (research support); Reberg foundation (research support) NIH, ADRC-grant (one out of four investigators in a principle program in Aging); NIH grant, subcontract with UCI, Irvine

Mobility

1997-2001 Associate Researcher, Institute of Brain Aging and Dementia, University of California, Irvine, USA (appointment).
2005-2010 Visiting researcher at the University of California, Irvine (several visits)
2003-2012 Visiting professor at the University of Mahidol, Bangkok (several visits)
2013-2015 Visiting professor at University-1, Yangoon, Myanmar

Master and PhD thesis supervision

1993-2015: Supervised numerous of students (approximately 15) over the last years. Many visitors and foreign PhD and Post-doc students. Three have finished their PhD under my supervision: in **Italy, Thailand and China.**
1993-1996: Several bioingenioer students in their thesis.
2002-2006: Stud Med Bahare Jouleh (Research thesis in Medicine)
2003-2005: Stud Odont Preet Bano (Master thesis)
2003-2005: PhD student Fulvio Celsi (defended his thesis 2006, Roma, Italy)
2006: Post doc Fulvio Celsi

2006-2008: PhD student Paworn Nuntagij (defended his thesis 2009, Bangkok, Thailand)
2008-2011 PhD Jing Yang, (defended her thesis, Zhangzhou, China)
2008-2009 Master student Katja Stahl (Defended her thesis januar 2009)
2011- PhD student Katja Stahl (present), Gry Helen Syverstad (present)
2011- 2017 co-supervisor of 4 PhD students (Laura Camassa, Lisa Lunde and Charlotte Jendressen(present) Kristi Henjum (present))
2015 Master thesis in neurobiology Marie Cossolon
2012-16 Master thesis in medicine) Gry-Helen Enger-Syvertsen

Faculty Opponent

Member of evaluation committee PhD-dissertation, 2009, 2010, 2011, 2012, 2013 (Oslo and Bangkok). Acting Dean at a PhD dissertation UiO, 2010. Opponent PhD dissertation NTNU 2015.

Teaching activities

2011-ongoing Anatomy, physiology and histology (250h/semester)

Organization of Scientific meetings

Co-organizer of several international meetings (approx. 10) latest Healthy Brain Conference, Oslo 2011.

Commision of trust-research applicants at national level

2010-2011 Member of board research group Nasjonalforeningen Demensforbundet, Rådet for demens, Norway
2008- 2012 Board Member of Civitan-Alzheimer foundation
2000-2006 Board Member of UNIFOR grant committee
1988-1997 Board Member of Leucotech A.S.

Referee duties for research applications at international level

2013: JPND program EU, Risk and Protective Factors for Neurodegenerative Diseases
2013: National Science Center, Poland
2013: Medizinische Universität Innsbruck, Gutachten Habilitation
2012: Netherlands Organisation for Health Research
2010: Faroe Research Council

Referee for international journals

Ad hoc referee for several journals, including, Neuroscience, J Neuroscience, JAD, J. of Brain Ageing, Anatomy and embryologi, J. of Histopathology, J. of Neurochem, Brain Res, Plosone etc

Editorial board

The Scientific World Journal
Journal of Alzheimer disease

Recent invited lecturing (2001-2017)

1, Pfizer symposium of aging 2, Association of neurology-aging program 3, Symposium of comparative medicine 4, Norwegian society for neuropsychiatry 5, Norwegian institute of science NTNU-Trondheim 6, Brain aging and dementia, University of California 7. Mahidol University of Bangkok 8. Russia Science Academy 9. Public lecture in town hall

Sandefjord 10. Public lecture Ski civic centre 11. The University of Texas at Austin, 12 University 1, Rangoon, Myanmar, 13 Mahidol University of Bangkok 2017.

Collaborators, National

Dr. Ira Haraldsen, Oslo University Hospital, Rikshospitalet, Dr. Espen Dietrichs, Dept. of Neurology, Oslo University Hospital, Rikshospitalet, Professor Tormod Fladby, Oslo University Hospital, Akershus, Professor Tone Tønjum, University of Oslo, Professor Lars Nilsson, Dept of pharmacology, University of Oslo, Dr. Trygve B. Leegaard, Dept of Anatomy, UiO.

International

Professor Lars Lannfelt, Karolinska sykehus Uppsala, Sweden. Professor Carl Cotman, Institute of Brain Aging and Dementia, UCI, US. Professor Charlie Glabe, Institute of Biochemistry, University of California, Irvine, US. Associate professor Liz Head, University of Kentucky, Texas, US. Professor Henry Hirschberg. Beckman Institute, UCI, US. Professor Kristen Harris Institute for Neuroscience The University of Texas at Austin, US.

Members of Science organizations

Norway Nansen Neuroscience, European Neuroscience, Society of American Neuroscience

Meeting participations Numerous (1990-2015, presentations in all major meetings)

Scientific production and Publications

Total 54 articles, including 2 book chapters

H-factor=28

RG Scores 33.7

Citations 3006 last 6 month (Research gate)

[View all works in Cristin](#)

[Publications 2000-2017](#)

- Yang J, Zhang R, Shi C, Mao C, Yang Z, Suo Z, **Torp R**, Xu Y (2017) **AQP4 Association with Amyloid Deposition and Astrocyte Pathology in the Tg-ArcSwe Mouse Model of Alzheimer's Disease** J Alzheimers Dis, 57 (1), 157-169 PubMed 28222512
- Lillehaug, Sveinung; Syverstad, Gry-Helen Enger; Nilsson, Lars; Bjaalie, Jan G.; Leegaard, Trygve Brauns & Torp, Reidun (2014). Brainwide distribution and variance of amyloid-beta deposits in tg-ArcSwe mice. *Neurobiology of Aging*. ISSN 0197-4580. 35(3), s 556- 564 . doi: [10.1016/j.neurobiolaging.2013.09.013](https://doi.org/10.1016/j.neurobiolaging.2013.09.013)
- Nuruddin, Syed; Syverstad, Gry-Helen Enger; Lillehaug, Sveinung; Leegaard, Trygve Brauns; Nilsson, Lars; Ropstad, Erik; Krogenæs, Anette; Haraldsen, Ira Hebold & Torp, Reidun (2013). Elevated mRNA-Levels of Gonadotropin-Releasing Hormone and Its Receptor in Plaque-Bearing Alzheimer's Disease Transgenic Mice. *PLoS ONE*. ISSN 1932-6203. 9(8) . doi: [10.1371/journal.pone.0103607](https://doi.org/10.1371/journal.pone.0103607)
- Lillenes, Meryl Sønderby; Støen, Mari; Gómez-Muñoz, Marta; Torp, Reidun; Günther, Clara-Cecilie; Nilsson, Lars & Tønjum, Tone (2013). Transient OGG1, APE1, PARP1 and Polβ expression in an Alzheimer's disease mouse model. *Mechanisms of Ageing and Development*. ISSN 0047-6374. 134(10), s 467- 477 . doi: [10.1016/j.mad.2013.09.002](https://doi.org/10.1016/j.mad.2013.09.002)
- Nagelhus, Erlend Arnulf; Amiry-Moghaddam, Mahmood; Bergersen, Linda Hildegard; Bjaalie, Jan G.; Eriksson, Jens; Gundersen, Vidar; Leegaard, Trygve Brauns; Morth, Jens Preben; Storm-Mathisen, Jon; Torp, Reidun; Walhovd, Kristine B & Tønjum, Tone (2013). The glia doctrine: Addressing the role of glial cells in healthy brain ageing. *Mechanisms of Ageing and Development*. ISSN 0047-6374. 134(10), s 449- 459 . doi: [10.1016/j.mad.2013.10.001](https://doi.org/10.1016/j.mad.2013.10.001)
- Benfenati, Valentina; Stahl, Katja; Gomis-Perez, Carolina; Toffanin, Stefano; Sagnella, Anna; Torp, Reidun; Kaplan, David L; Ruani, Giampiero; Omenetto, Fiorenzo G; Zamboni, Roberto & Muccini, Michele (2012). Biofunctional Silk/Neuron Interfaces. *Advanced Functional Materials*. ISSN 1616-301X. 22(9), s 1871- 1884 . doi: [10.1002/adfm.201102310](https://doi.org/10.1002/adfm.201102310)
- Stahl, Katja; Mylonakou, Maria-Niki; Skare, Øivind; Amiry-Moghaddam, Mahmood & Torp, Reidun (2011). Cytoprotective effects of growth factors: BDNF more potent than GDNF in an organotypic culture model of Parkinson's disease. *Brain Research*. ISSN 0006-8993. 1378, s 105- 118 . doi: [10.1016/j.brainres.2010.12.090](https://doi.org/10.1016/j.brainres.2010.12.090)

- Yang, Jing; Lunde, Lisa Kristina; Nuntagij, Paworn; Oguchi, Tomohiro; Camassa, Laura Maria Azzurra; Nilsson, Lars N. G.; Lannfelt, L.; Xu, Y; Amiry-Moghaddam, Mahmood; Ottersen, Ole Petter & Torp, Reidun (2011). Loss of Astrocyte Polarization in the Tg-ArcSwe Mouse Model of Alzheimer's Disease. *Journal of Alzheimer's Disease*. ISSN 1387-2877. . doi: [10.3233/JAD-2011-110725](https://doi.org/10.3233/JAD-2011-110725)
- Nuntagij, Paworn; Oddo, Salvatore; LaFerla, Frank M.; Kotchabhakdi, Naiphininch; Ottersen, Ole Petter & Torp, Reidun (2009). Amyloid Deposits Show Complexity and Intimate Spatial Relationship with Dendrosomatic Plasma Membranes: An Electron Microscopic 3D Reconstruction Analysis in 3xTg-AD Mice and Aged Canines. *Journal of Alzheimer's Disease*. ISSN 1387-2877. 16(2), s 315- 323 . doi: [10.3233/JAD-2009-0962](https://doi.org/10.3233/JAD-2009-0962)
- Stahl, Katja; Skare, Øivind & Torp, Reidun (2009). Organotypic cultures as a model of Parkinson's Disease. A twist to an old model. *Scientific World Journal*. ISSN 1537-744X. 9, s 811- 821 . doi: [10.1100/tsw.2009.68](https://doi.org/10.1100/tsw.2009.68)
- Nase, Gabriele; Helm, Paul Johannes; Oguchi, Tomohiro; Nilsson, L. N. G.; Lannfelt, L.; Ottersen, Ole Petter & Torp, Reidun (2008). Local impact of perivascular plaques on cerebral blood flow dynamics in a transgenic mouse model of Alzheimer's disease. *Proceedings of SPIE, the International Society for Optical Engineering*. ISSN 0277-786X. 6860 . doi: [10.1117/12.762739](https://doi.org/10.1117/12.762739)
- Celsi, Fulvio; Svedberg, M; Unger, C; Cotman, CW; Carri, MT; Ottersen, Ole Petter; Nordberg, A & Torp, Reidun (2007). Beta-amyloid causes downregulation of calcineurin in neurons through induction of oxidative stress. *Neurobiology of Disease*. ISSN 0969-9961. 26 . doi: [10.1016/j.nbd.2006.12.022](https://doi.org/10.1016/j.nbd.2006.12.022)
- Oddo, S; Caccamo, A; Cheng, D; Juleh, Bahareh; Torp, Reidun & LaFerla, FM (2007). Genetically augmenting tau levels does not modulate the onset or progression of A beta pathology in transgenic mice. *Journal of Neurochemistry*. ISSN 0022-3042. 102, s 1053- 1063 . doi: [10.1111/j.1471-4159.2007.04607.x](https://doi.org/10.1111/j.1471-4159.2007.04607.x)
- Biskup, S; Moore, DJ; Celsi, Fulvio; Higashi, S; West, AB; Andrabi, SA; Kurkinen, K; Yu, SW; Savitt, JM; Waldvogel, HJ; Faull, R. L. M.; Emson, P. C.; Torp, Reidun; Ottersen, Ole Petter; Dawson, TM & Dawson, VL (2006). Localization of LRRK2 to membranous and vesicular structures in mammalian brain. *Annals of Neurology*. ISSN 0364-5134. 60(5), s 557- 569
- Mathisen, Thomas Misje; Nagelhus, Erlend Arnulf; Juoleh, Bahareh; Torp, Reidun; Frydenlund, Didrik Søli; Mylonakou, Maria-Niki; Amiry-Moghaddam, Mahmood Reza; Covolan, Luciene; Utvik, Jo Kristian; Riber, Bjørg; Gujord, Karen Marie; Knutsen, Jorunn; Skare, Øivind; Laake, Petter; Davanger, Svend; Haug, Finn-Mogens Smejda; Rinvik, Eric & Ottersen, Ole Petter (2006). Postembedding Immunogold Cytochemistry of Membrane Molecules and Amino Acid Transmitters in the Central Nervous System, In *Neuroanatomical Tract Tracing: Molecules, Neurons, & Systems*. Springer Science+Business Media B.V.. ISBN 0-387-28941-0. 3. s 72 - 108
- Torp, Reidun; Singh, Preet Bano; Sørensen, Dag Reidar; Dietrichs, Espen & Hirschberg, Henry (2006). Vekstfaktorer som nevroprotektiv behandling ved Parkinsons sykdom?. *Tidsskrift for Den norske legeforening*. ISSN 0029-2001. 126(7), s 899- 901
- Bernard-Trifilo, JA; Kramar, EA; Torp, Reidun; Lin, CY; Pineda, EA; Lynch, G & Gall, CM (2005). Integrin signaling cascades are operational in adult hippocampal synapses and modulate NMDA receptor physiology. *Journal of Neurochemistry*. ISSN 0022-3042. 93
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- Torp, Reidun; Ottersen, Ole Petter; Cotman, C. W. & Head, E. (2003). Identification of neuronal plasma membrane microdomains that colocalize beta-amyloid and presenilin: implications for APP processing. *Neuroscience*. ISSN 0306-4522. 120(2), s 291- 300
- Head, E. & Torp, Reidun (2002). Insights into Abeta and presenilin from a canine model of human brain aging. *Neurobiology of Disease*. ISSN 0969-9961. (1), s 1- 10
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- Torp, Reidun & Ottersen, Ole Petter (2001). Alzheimers sykdom: er forebygging mulig?. *DIAforskningnytt (Oslo)*. ISSN 0808-1212. 5(4), s 1- 2
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- Torp, Reidun; Head, E. & Cotman, C. W. (2000). Ultrastructural analyses of b-amyloid in the aged dog brain: Neuronal b-amyloid is localized to the plasma membrane. *Progress in Neuro-psychopharmacology and Biological Psychiatry*. ISSN 0278-5846. 24, s 801- 810
- Torp, Reidun; Head, E.; Milgram, N. W.; Hahn, F.; Ottersen, Ole Petter & Cotman, C. W. (2000). Ultrastructural evidence of fibrillar beta-amyloid associated with neuronal membranes in behaviorally characterized aged dog brains. *Neuroscience*. ISSN 0306-4522. 96, s 495- 506
- Torp, Reidun; Head, E.; Milgram, N. W.; Hahn, F.; Ottersen, Ole Petter & Cotman, C. W. (2000). Ultrastructural evidence of fibrillar beta-amyloid associated with neuronal membranes in behaviorally characterized aged dog brains. *Neuroscience*. ISSN 0306-4522. 96, s 495- 506