

# Curriculum vitae

## Personal information

First name, Surname:	Andreas Åslund		
Date of birth:	11.03.1978	Sex:	Male
Nationality:	Swedish		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	<a href="https://orcid.org/0000-0001-5222-9307">https://orcid.org/0000-0001-5222-9307</a> , ResearcherID: H-4721-2013		
URL for personal website:	<a href="https://www.sintef.no/alle-ansatte/ansatt/?empid=7510">https://www.sintef.no/alle-ansatte/ansatt/?empid=7510</a>		

## Education

Year	Faculty/department - University/institution - Country
2009 (dissertation defended)	Ph.D. PhD: Department of Physics, Chemistry and Biology, Linköping University, Sweden, <b>Designing thiophene-based fluorescent probes for the study of neurodegenerative protein aggregation diseases: From test tube to in vivo experiments.</b>
2003	Master in Organic Chemistry: Department of Physics, Chemistry and Biology, Linköping University, Sweden

## Positions - current and previous

*(Academic sector/research institutes/industrial sector/public sector/other)*

Year	Job title – Employer - Country
2018-	Researcher/SINTEF AS/Norway
2016-2018	Researcher/Norwegian University of Science and Technology (NTNU)/Norway
2013-2018	Postdoctoral fellow/NTNU/Norway
2010-2013	Postdoctoral fellow/ Linköping University/Sweden
2010-2012	Founder and editor of life-style magazine Allt om Gården
2004-2009	PhD-student/ Linköping University/ Sweden

## Project management experience

Year	Project owner - Project - Role - Funder
2020-2023	Graphene-based drug delivery systems for treating MRSA infections – Project leader – SINTEF
2020-2021	SINTEF – Long Lasting Injectables for Slow Drug Release – Project leader – SINTEF
2019-	Project leader in multiple projects financed by industry

2018-2018	NTNU – Novel diagnostic and treatment regimens for post-ischemic inflammation in the brain – Project leader – The Central Norway Regional Health Authority
2016-2018	NTNU – Ultrasound-enhanced delivery of multifunctional nanoparticles: Improving therapy of cancer and diseases in the central nervous system – WP leader – RCN
2013-2016	NTNU – Multifunctional nanoparticles for drug delivery across the blood-brain barrier – Researcher – The Research Council of Norway – WP leader - RCN
2009-2012	WP leader in the EU project Luminescent polymers for in vivo imaging of amyloid signatures, LUPAS, (EU, FP7, 242098)
2004-2009	PhD-student/ Linköping University/ Sweden

### Other relevant professional experiences

Year	Description - Role
2019-2021	Vice chair in the working group for Nanotherapeutic and Diagnostics - European Technology platform for Nanomedicine (ETPN)
2019-	Responsible for biodistribution and pharmacokinetics studies at SINTEF for the REFINE project (Horizon 2020)
2010-2013	Project LUPAS, WP-leader, EU FP7
2010-2012	Founder and editor of life-style magazine Allt om Gården
2015-	Journal of Control Release (reviewer), Theranostics (reviewer), International Journal of Pharmaceutics (reviewer), Langmuir (reviewer), Drug Delivery and Translational Research (Reviewer)

### Track record

#### PUBLICATION OVERVIEW (as of 13/06-2021)

Total number of publications in peer reviewed journals: 37

Total number of publications in peer reviewed conference proceedings: >40

H-index: 22

Total number of citations: 1989

Five publications with >100 citations.

#### Relevant publications

1. M. Germain, F. Caputo, S. Metcalfe, G.Tosi, K. Spring, **A.K.O. Åslund**, Agnes Pottier, Raymond Schiffelers, Alexandre Ceccaldi, Ruth Schmid *Delivering the power of nanomedicine to patients today. Journal of Controlled Release. 2020* 326: 164-171. doi: 10.1016/j.jconrel.2020.07.007
2. E. Sulheim, Y. Mørch, S. Snipstad, S.E. Borgos, H. Miletic, R. Bjerkgvig, C.L. Davies, **A.K.O. Åslund** *Therapeutic Effect of Cabazitaxel and Blood-Brain Barrier opening in a Patient-Derived Glioblastoma Model. Nanotheranostics. 2019* Feb 7;3(1):103-112. doi: 10.7150/ntno.31479.
3. Yemane, P. T.; **Åslund, A. K. O.**; Snipstad, S.; Bjørkøy, A.; Grendstad, K.; Berg, S.; Mørch, Y.; Torp, S. H.; Hansen, R.; Davies, C. L., *Effect of Ultrasound on the Vasculature and Extravasation of Nanoscale Particles Imaged in Real Time. Ultrasound in medicine & biology 2019*, 45 (11), 3028-3041.

4. Habib Baghirov, Sofie Snipstad, Einar Sulheim, Sigrid Berg, Rune Hansen, Frits Thorsen, Yrr Mørch, Catharina de Lange Davies, **Andreas K. O. Åslund**, *Ultrasound-mediated delivery and distribution of polymeric nanoparticles in the normal brain parenchyma of a metastatic brain tumour model*, **PLoS One**, 13 (2018), e0191102 **11 citations**.
5. F. Mpambani\*, **A.K.O Åslund\***, F. Lerouge, S. Nyström, N. Reitan, E.M. Huuse, M. Widerøe, F. Chaput, C. Monnerieu, C. Andraud, M. Lecouvey, S. Handrick, F. Heppner, K.P.R. Nilsson, P. Hammarström, M. Lindgren, S. Parola, *Two-photon fluorescence and magnetic resonance specific imaging of A $\beta$  amyloid using GdF<sub>3</sub> based hybrid nanoprobe*. **ACS Applied Bio Materials**. 2018, 1 (2), 462-472.
6. **Åslund, A. K. O.**; Snipstad, S.; Healey, A.; Kvåle, S.; Torp, S. H.; Sontum, P. C.; Davies, C. L.; van Wamel, A., *Efficient Enhancement of Blood-Brain Barrier Permeability Using Acoustic Cluster Therapy (ACT)*. **Theranostics** 2017, 7 (1), 23-30.
7. **Åslund, A. K. O.\***; Sulheim, E\*.; Snipstad, S.; von Haartman, E.; Baghirov, H.; Starr, N. J.; Kvåle Løvmo, M.; Lelu, S.; Scurr, D. J.; Davies, C. L.; Schmid, R. B.; Mørch, Y. A., *Quantification and qualitative effects of different PEGylations on PBCA nanoparticles*. **Mol. Pharm.** 2017 14 (8), 2560.
8. S. Snipstad, S. Hak, H. Baghirov, E. Sulheim, Y. Mørch, S. Lelu, E. von Haartman, M. Bäck, K.P.R. Nilsson, A.S. Klymchenko, C. de Lange Davies, **A.K.O. Åslund**, *Labeling nanoparticles: Dye leakage and altered cellular uptake*, **Cytometry A**, 2016, DOI: 10.1002/cyto.a.22853.
9. **A.K.O. Åslund**, S. Berg, S. Hak, Y. Mørch, S.H. Torp, A. Sandvig, M. Widerøe, R. Hansen, C. de Lange Davies, *Nanoparticle delivery to the brain—By focused ultrasound and self-assembled nanoparticle-stabilized microbubbles*, **Journal of Controlled Release**, 2015, 220 287-294.
10. U.S. Herrmann, A. Schütz, H. Shirani, D. Saban, M. Nuvolone, D. Huang, B. Li1, B. Ballmer, **A.K.O. Åslund**, J.J. Mason, E. Rushing, H. Budka, P. Hammarström, K.P.R. Nilsson, A. Böckmann, A. Caffisch, B. Meier, S. Hornemann, A. Aguzzi, *Structure-based drug design identifies polythiophenes as antiprion compounds*, **Science Translational Medicine** 2015, 7 , 299ra123.
11. **A. Åslund**, C.J. Sigurdson, T. Klingstedt, S. Grathwohl, T. Bolmont, D.L. Dickstein, E. Glimsdal, S. Prokop, M. Lindgren, P. Konradsson, D.M. Holtzman, P.R. Hof, F.L. Heppner, S. Gandy, M. Jucker, A. Aguzzi, P. Hammarström, K.P.R. Nilsson, *Novel Pentameric Thiophene Derivatives for in Vitro and in Vivo Optical Imaging of a Plethora of Protein Aggregates in Cerebral Amyloidoses*, **ACS Chemical Biology** 2009, 4 673-684

### Granted patents

3 patents granted: Substituted thiophene pentamers, Oligothiophene derivate as molecular probes, Multimodal agents for imaging, A new drug delivery system for treatment of disease

### Invited Speaker

Åslund, A. K. O., et al. (2014). Nanoparticle-microbubbles and focused ultrasound to penetrate the blood brain barrier. COST TD1004 Action, Theranostics Imaging and Therapy: An Action to Develop Novel Nanosized Systems for Imaging-Guided Drug Delivery, Istanbul

### Grants/awards

- 2020 Graphene-based drug delivery systems for treating MRSA infections (research project)
- 2019 Nanoformulated anti-fungals, Innovation project for the Industrial Sector
- 2017 Novel diagnostic and treatment regimens for post-ischemic inflammation in the brain. *Three-year personal research grant awarded by the Regional Health Authorities in Central Norway*
- 2014 Ultrasound-enhanced delivery of multifunctional nanoparticles: Improving therapy of cancer and diseases in the central nervous system
- 2012 VFT1-award for patent and commercialization assistance.