Hande Login

Assistant Prof. in Biomedicine

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Profile

A senior molecular biologist with 11 years of experience in conducting several research projects in the fields of neuroscience and cardiovascular system by using transgenic animals (mouse and zebrafish) and cell biology methods. Expert in biochemistry and bioimaging.

Excellent communication skills through teaching, oral presentations, writing of scientific articles and grant applications.

Successful at establishing collaborations with researchers from different backgrounds and a very inspiring team player.

Broad intercultural and international experiences (Denmark, Sweden and Turkey).

Capabilities of innovative and creative thinking, quick grasp of new concepts, and persistence in problem solving.

Scientific Focus Areas

Sensory neural circuit formation and maintenance

Molecular pathways in brain angiogenesis and neurovascular coupling in the brain

Sortilin receptor family biology and growth factor signaling

Retinoic acid signaling and Amyloid precursor protein (APP) processing

Key Technical Skills

Light, epifluorescent and confocal microscopy, *in vivo* time lapse imaging and image analyses

Mouse and zebrafish handling, dissecting and sample preparation

Tissue cryosectioning and histology

Mouse genotyping

Protein detection assays (Immunohistochemistry, western blot, immunoprecipitation)

RNA quantification and detection methods (qPCR and RNA in situ hybridization with DIG labeling and RNA Scope)

Cell culture

Brain blood flow analyses by Laser speckle imaging

Single cell suspension preparation for flow cytometry

Proteomics data analyses

Work Experience

Aarhus University, DENMARK – *Lab Manager in Biomedicine Department*

Feb 2021 – Current

Aarhus University, DENMARK – *Assistant Prof. in Biomedicine Department*

Jun 2020 – Jan 2021

(Oct 2019-June 2020 Maternity leave)

Aarhus University, DENMARK – *Postdoc in Biomedicine Department*

Sep 2014 – Oct 2019

(Nov 2017- Jan 2019 Maternity leave)

- Conduct and plan experiments to investigate the role of SorCS2, a member of Sortilin receptor family, in development of vasculature and neurovascular coupling in brain by using transgenic animal models (mouse and zebrafish) and cell biology methods.
- Investigate new binding partners for SorCS2 that play role in angiogenesis during development and blood vessel homeostasis in adults.
- Established 3 successful interdisciplinary research collaborations which led to 2 scientific articles published in high impact journals.
- Supervised and mentored 2 lab technicians, 1 PhD and 1 master student.
- Wrote 4 grant proposals.
- Regularly share my new research findings in departmental meetings.

Umeå University, SWEDEN - *PhD*

March 2009 – June 2014

- Conducted and planned experiments to investigate the function of Retinoic acid that is a Vitamin A derivative, in formation and maintenance of the mouse olfactory sensory system.
- Characterized the connection between neural plasticity, Vitamin A metabolism and APP processing in maintenance of correct axonal targeting in the olfactory system.
- Published 3 peer-reviewed research articles.
- Supervised and mentored 1 master and 1 bachelor student.
- Gave several oral presentations in internal departmental meetings and poster presentations in international meetings.

Teaching Experience and Other Responsibilities

Lecturer in Graduate Neuroscience course, Aarhus University (2016-2019)

Supervisor in Biochemistry in Health and Disease course, Aarhus University (2017)

Microscope coordinator for Zeiss 780 confocal and Zeiss Apotome microscope at DANDRITE (Danish Research Institute of Translational Research) in Biomedicine department, Aarhus University (2016- 2017)

Selected as a course attendee for EMBL Advanced Fluorescence Imaging Techniques course, Heidelberg, GERMANY (25-30 June 2017)

Attended to Zeiss training "Basic course LSM 880 confocal microscope", Jena, GERMANY (10-12 July 2017)

Postdoc representative of DANDRITE (2016-2017)

Member of Danish Bioimaging Network (2016- current) and Aarhus University Cardiovascular Network (2019-current)

Education

Umeå University, SWEDEN - *PhD*

March 2009 - June 2014

Dissertation Title: Activity–regulated retinoic acid signaling in olfactory sensory neurons.

Istanbul Technical University, TURKEY - *BSc in Molecular Biology and Genetics*

2008

Languages

English (advanced level)
Turkish (mother tongue)
Swedish (basic level)
Danish (basic level)

Leisure Time Activities

Play with my two sons, listen audiobooks and go out for walking in nature.

References

Prof. Staffan Bohm

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Dr. Kasper Kjaer-Sørensen

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Publications

1. Sortilin gates neurotensin and BDNF signaling to control neuropathic pain. Richner M, Pallesen LT, Ulrichsen M, Poulsen ET, Holm TH, **Login H**, Castonguay A, Andersen O, Lykke-Hartmann K, Enghild JJ, De Koninck Y, OJ Bjerrum, Vægter CB, Nykjaer A. Sci Adv. 2019 Jun 19. doi: 10.1126/sciadv.aav9946

2. SorCS2 is required for BDNF dependent plasticity in the hippocampus. Glerup S, Bolcho U, Molgaard S, Boggild S, Vaegter CB, Smith AH, Nieto- Gonzalez JL, Ovesen PL, Fjorback AN, Kjolby M, **Login H**, Holm MM, Andersen OM, Nyengaard JR, Willnow TE, Jensen K, Nykjaer A. Mol Psych. 2016 Jul 26. doi: 10.1038/mp.2016.108

3. The stimulus-dependent gradient of Cyp26B1-positive olfactory sensory neurons is necessary for the functional integrity of the olfactory sensory map. **Login, H**., S. Haglin, A. Berghard, S. Bohm. J Neurosci. 2015 Oct 7; 35(40):13807-18

4. Activity-dependent and graded BACE1 expression in the olfactory epithelium is mediated by the retinoic acid metabolizing enzyme Cyp26B1. **Login, H**., R. Butowt, S. Bohm. Brain Struct Funct. 2015 Jul; 220(4):2143-57

5. Retinoic acid receptor and CNGA2 channel signaling are part of a regulatory feedback loop controlling axonal convergence and survival of olfactory sensory neurons **Oztokatli, H**., M. Hornberg, A. Berghard, S. Bohm. FASEB. 2012 Feb (26):617-627