

PERSONAL INFORMATION

Family name, First name: Jurisch-Yaksi, Nathalie

ORCID: 0000-0002-8767-6120

Date of birth: 22.09.1980

Nationality: French, German

URL for website <https://www.ntnu.edu/employees/nathalie.jurisch-yaksi>

• EDUCATION

- 2009 **PhD in Life Sciences**, date of approved disputation: 05.03.2009
German Cancer Research Centre (DKFZ), University of Heidelberg, Germany, Department of Signal Transduction and Growth Control. PhD supervisors: Prof. Peter Angel & Dr Marina Schorpp-Kistner
- 2005 **Diploma/Master in Biology** Faculty of Biology and Medicine, University of Lausanne, Switzerland

• CURRENT POSITIONS

- 2024- **Mercator Fellow (20% FTE)** German Research Foundation (DFG), Research Unit FOR5547, University of Dusseldorf, Germany
- 2021 – **Associate Professor (10% FTE)** Kavli Institute for Systems Neurosciences, Faculty of Medicine and Health Sciences, NTNU, Trondheim, Norway
- 2019 – **Researcher, Group Leader (90% FTE)** Department of Clinical and Molecular Medicine, Laboratory Center, Faculty of Medicine and Health Sciences, NTNU, Trondheim, Norway

• PREVIOUS POSITIONS

- 01/15-03/19 **Researcher** Laboratory of Prof. Emre Yaksi, Kavli Institute for Systems Neurosciences, Faculty of Medicine and Health Sciences, NTNU, Trondheim, Norway
- 01/11-12/14 **Postdoctoral Fellow** Laboratory of Prof. Wim Annaert Laboratory, VIB - KU Leuven, Belgium
- 12/09-12/10 **Research Fellow** Laboratory of Prof. Randall T Peterson, Harvard Medical School, Boston, USA

• GRANTS, FELLOWSHIPS AND AWARDS

- 2025-28 PI and coordinator of ERA-NET NEURON "Bidirectional brain-body interactions" project ChorNexus (NFR, 300K EUR)
- 2025-28 PI on Researcher Project, The Research Council of Norway (RCN, 12M NOK)
- 2024-28 Mercator Fellow/PI on German Research Foundation (DFG), Research Unit FOR5547 (20% position)
- 2023-26 PI on ERA-PerMed EU consortium "Glioma-PerMed: Glioma invasion assays as a predictive tool for personalized glioma medicine" (ERA-PerMed, 300K EUR)
- 2021-24 PI on Researcher Project, The Research Council of Norway (RCN, 12M NOK)
- 2021-24 PI on NTNU Enabling Technology PhD Fellowship (1 PhD student 4 years, ca 4.5M NOK)
- 2017-23 PI on NTNU Strategy Grant (1 PhD student, ca 3.5M NOK)
- 2017-21 Investigator on research grant from the Liaison Committee for education, research and innovation in Central Norway with Profs E Yaksi and E Brodtkorb (8M NOK)
- 2018 Travel Grant from EuFishBioMed to attend the 2018 Zebrafish PI meeting (500 EUR)
- 2017 Travel Grant Gordon Research Conference (Cilia and Mucociliary Clearance) (600 EUR)
- 2017 EMBO Travel Grant in collaboration with Prof K Pekkan (Koc University, Turkey) (1000 EUR)
- 2012 F+ Postdoc Fellowship, KU Leuven (1 year postdoc salary)
- 2008 European Association of Cancer Research (EACR) travel award (500 EUR)
- 2006-09 International PhD studentship (DKFZ, 3 years PhD salary)

• SUPERVISION OF STUDENTS AND POSTDOCTORAL FELLOWS

Postdoctoral Researcher: Dr I Jeong and Dr P. D’Gama

PhD students: 1 ongoing: M Ege (since August 2021, supported by NTNU enabling technology and RCN), 3 graduated: P D’Gama (2020-2024, supported by NTNU Strategy Grant) C Ringers (2017-2021, supported by Boehringer Ingelheim Fond PhD Fellowship), S Myren-Svelstad (neurologist, co-supervisor, 2017-2022)

Medical student- NTNU Medical Research Line Fellowship: A Jamali (2018-2022), S Ophus (co-supervisor, since August 2021)

Master students: since 2016, 3 ongoing (NTNU Neuroscience, Molecular Medicine and Biotechnology) and 15 graduated (9 from NTNU Neuroscience, 1 from NTNU Molecular Medicine, 5 from KU Leuven Biomedical Research). 9 graduated MSc students are currently pursuing their PhD theses.

Technician: Andreas Nygard (August 2021-December 2023, supported by my RCN project)

• TEACHING ACTIVITIES

- 2024- Use of nanotechnology in therapy (MOL3015, MSc course, 1 semester/year, 10h lectures, circa 35 students, NTNU, Norway)
- 2021 Pedagogy education by NTNU (200 hours of courses, collegial teaching and individual project)
- 2020- Introduction to neuroscience for Undergraduates (NEVR2010, 2030, BSc course, co-organizer, 1 semester/year, 5x2h lectures, circa 100 students, NTNU, Norway)
- 2020- The cardiovascular system and its associated diseases (MSc course, 2h lecture, supervision of 3-4 students for assay writing, grading of 6 assays, NTNU, Norway)
- 2016- Auditory system (MSc course, 2h lecture, NTNU, Norway)
- 2015-17 Zebrafish as a model organism (1h/year, Felasa course, NTNU, Norway)
- 2014 The cell biology of neurodegenerative diseases with an emphasis on Alzheimer's disease (9h, Medical students in their 2nd semester, KU Leuven, Belgium)
- 2014 Laboratory training for Bachelor students (10h, BSc students in biomedical sciences 6th semester, KU Leuven, Belgium)
- 2011-14 Hot Topic in Cell Biology (4h/year, MSc students in biomedical sciences, KU Leuven, Belgium)

• ORGANISATION OF SCIENTIFIC MEETINGS

- 2027 Co-organizer of Cilia2027 Conference
- 2025 Co-organizer the Norwegian Biochemical Society, winter meeting
- 2024 Co-organizer of the Cilia 2024 Conference
- 2022 Co-organizer of the Zebrafish Neural Circuit and Behavior Conference (150 participants, 2 organizers) – Norway,
- 2022 Co-organizer of the EMBO Cilia Conference (530 participants, 10 organizers, involved in scientific program and fundraising) – Germany,
- 2018 Main organizer of NTNU's Neuroscience Symposium (70 participants, 2 organizers)

• INSTITUTIONAL RESPONSIBILITIES

- 2018- **Opponent** at 6 MSc (4 NTNU, 2 University of Bergen) and 8 PhD defenses (1 University of Oslo, 2 NTNU, 1 University of Paris, 1 University of Sheffield, 1 University of Bergen, 1 Copenhagen, 1 KU Leuven, 1 University of Lisbon), **Reviewing** of 1 PhD thesis (University of Zurich)

• REVIEWING ACTIVITIES

- 2021 – **Editorial board:** fluid barriers of the CNS
- 2020 – **Grant Reviewing:** BBSRC (UK), Fondation de la Recherche Médicale (France), Agence national de la Recherche (ANR, France), Dutch Research Council (NWO), Swiss National Fond (SNF), Human Frontier Science Program (HFSP), Wellcome Trust
- 2016 – **Reviewing:** Science, Neuron, Nature Communication, Current Biology, Cell Reports, Elife, Development, Journal of Biological Chemistry, Philosophical Transaction of the Royal Society B, Neurogenesis, BMC genomics, fluid barriers of the CNS

• MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 2021 - Board Member European Zebrafish Society
- 2024 - Committee member International zebrafish society sustainability committee
- 2017-20 Associate member of the Priority Programme “Microswimmers – From Single Particle Motion to Collective Behavior” of the German Research Foundation (DFG)
- 2016- Member of the European Zebrafish Society, Norwegian Neuroscience Society, FENS

• LIST OF INVITED PRESENTATIONS

Total number of invited presentations at conferences: >30 including: Heraeus Seminar on “Physics of Motile Cilia” (2025, Germany), Geilo School on active matter (Geilo, Norway, 2025), Cilia24 (2024, Dublin, Ireland), Nordic Development Biology Meeting (2024, Bergen), 2023 European Choroid Plexus Conference (Heidelberg, Germany), 2023 EMBO physics of Life (Dresden, Germany), 2022 Personalized Medicine (Qatar) 2022 Hydrocephalus meeting (Gothenburg, Sweden), BrainH20 (2021, Copenhagen), CSHL brain

barrier (2021, online), Hydrocephalus Association Workshop (2019, USA), French-UK Annual Cilia Meeting (2019, France), Fluid physics of Life (2019, Dresden, Germany), Company of Biologists Workshop on “Choroid Plexus-Cerebrospinal Fluid System” (2019, UK), Royal Society conference on “Unity and diversity of ciliary systems” (2019, UK), Heraeus Seminar on “Physics and Physiology of Motile Cilia” (2019, Germany)

Selected symposia at conferences: 3, Nordic Neuroscience (2024, Copenhagen), Federation of European Neuroscience meeting FENS 2024 (Vienna), European Chemoreception Organisation (ECRO, 2022)

Selected abstracts for talks at conferences: total: >15, including GRC (cilia, mucus and mucociliary interaction 2017 and 2019), CSHL (Zebrafish Neural Circuits and Behavior 2020), Cilia conference 2018, zebrafish meeting (European meeting 2017, Neural Circuit meeting 2019), European Chemoreception Research Organization conference (2017)

Invited speaker total: >20 since 2013, including seminar series in Washington University of St Louis (2021), Cells webinar on neuronal development and plasticity (2021), University of Sheffield (2019), University of Munich (2017), German Center for Neurodegenerative Diseases (2017), Koc University-Istanbul (2016).