

Curriculum Vitae

PERSONAL INFORMATION

Family name, First name: Van Loon, Barbara
Researcher unique identifier(s): 0000-0002-7597-207X (ORCID); E-6771-2014 (Researcher ID)
Date of birth: 02.08.1982
Nationality: Croatian
URL for website: <https://www.ntnu.no/ansatte/barbara.v.loon>

EDUCATION

2010 PhD degree (8.3.2010 – title awarded)
Faculty of Science, Vetsuisse Faculty / Institute of Veterinary Biochemistry and Molecular Biology, University of Zurich / Switzerland (Supervisor: Prof. Ulrich Hübscher)
2006 Master degree
Faculty of Science / Department of Molecular Biology, University of Zagreb / Croatia

CURRENT POSITION(S)

2020 – Professor (Faculty of Medicine and Health Sciences / Department of Clinical and Molecular Medicine, Norwegian University of Science and Technology / Norway)
2021 – Deputy Director for Research and Innovation (Faculty of Medicine and Health Sciences / Department of Clinical and Molecular Medicine, Norwegian University of Science and Technology / Norway)

PREVIOUS POSITION(S)

2016 – 2019 Associate professor (Faculty of Medicine and Health Sciences / Department of Clinical and Molecular Medicine, Norwegian University of Science and Technology / Norway)
2011 – 2015 Group Leader (Faculty of Science, Vetsuisse Faculty / Department of Molecular Mechanisms of Disease, University of Zurich / Switzerland) (Institute Leader: Prof. M.O. Hottiger)
2010 – 2011 Postdoctoral fellow (Department of Biological Engineering, Department of Biology / Massachusetts Institute of Technology / USA) (Supervisor: Prof. L.D. Samson)
2009 – 2010 Postdoctoral associate (Vetsuisse Faculty / Institute of Veterinary Biochemistry and Molecular Biology, University of Zurich / Switzerland) (Supervisor: Prof. U. Hübscher)
2006 – 2009 PhD student (Vetsuisse Faculty / Institute of Veterinary Biochemistry and Molecular Biology, University of Zurich / Switzerland) (Supervisor: Prof. U. Hübscher)
2005 – 2006 Research assistant (Novartis Pharma / Institute for BioMedical Research, Basel / Switzerland) (Supervisor: Dr. L. Mazzoni)

PROJECT MANAGEMENT EXPERIENCE

*Since 2013 I have lead **12 externally funded projects** as a main project leader, total funding of which is 45M NOK.*

In what follows is overview of currently ongoing projects (depicted are Project - Role - Funder):

2023 – 2028 Role of aberrantly methylated bases. Project Leader, Research Council of Norway (FRIPRO-Groundbreaking research).
2023 – 2025 Identification of metachromatic leukodystrophy indicators through patient-specific brain models. Project Leader, HMN.

- 2022 – 2028 Rare genetic diseases: Clinical Academic Group (CAG). Project leader with MD. R. Østern, Regional Health Authority Mid-Norway (HMN).
- 2022 – 2024 New responses upon glioblastoma treatment. Project Leader, HMN/NTNU.

FELLOWSHIPS AND AWARDS

- 2021 The Anders Jahre Medical Prize for Young Researchers - University of Oslo / Norway
- 2017 – 2021 Outstanding Academic Fellow; Faculty of Medicine and Health Sciences / Department of Clinical and Molecular Medicine, Norwegian University of Science and Technology / Norway
- 2016 – 2022 Onsager Fellowship; Faculty of Medicine and Health Sciences / Department of Clinical and Molecular Medicine, Norwegian University of Science and Technology / Norway
- 2010 “Magna cum laude” Distinction Awarded by University of Zürich for Excellent Doctoral Thesis; Faculty of Science, Vetsuisse Faculty / Institute of Veterinary Biochemistry and Molecular Biology, University of Zurich / Switzerland
- 2005 – 2006 International Association for the Exchange of Students for Technical Experience Fellowship; Faculty of Science / Department of molecular biology, University of Zagreb / Croatia
- 2003 – 2004 City of Zagreb Fellowship to Talented Students; Faculty of Science / Department of molecular biology, University of Zagreb / Croatia
- 2003 Rector’s Award for the Best Student Paper; Faculty of Science / Department of molecular biology, University of Zagreb / Croatia
- 2000 Award for the Best Young Biologist Project; Croatian Ministry of Science, Croatia

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2010 – 14 Master Students (11 completed; 3 ongoing) – 11 at NTNU; 2 at University of Zurich; 1 at MIT
- 2011 – 8 PhD Students (6 completed; 2 ongoing) – 4 at NTNU; 4 at University of Zurich
- 2012 – 6 Postdoctoral fellows – 4 at NTNU; 2 at University of Zurich

6 PhD students successfully defended their thesis under my direct supervision and continued as Postdoctoral fellows at prominent Universities across Europe (University of Zurich, University of Oslo, NTNU), pharma industry (Bayern) and health industry in Switzerland and Germany.

TEACHING ACTIVITIES

- 2016 – Lecturer – Personal Genome; Norwegian University of Science and Technology / Norway
- 2012 – 2015 Lecturer – Biochemistry: University of Zurich/ Vetsuisse Faculty / Switzerland

ORGANISATION OF SCIENTIFIC MEETINGS

- 2025 8th EU-US Conference on Endogenous DNA Damage and Repair - 120 attendees
- 2017 Trondheim-Oslo Genome Dynamics Workshop / Trondheim, Norway - 90 attendees
- 2016 DNA Polymerases: from Function to Human Diseases / Biarritz, France - 120 attendees
- 2014 DNA Polymerases: Biology, Diseases and Biomedical Applications / Cambridge, UK - 120 attendees

INSTITUTIONAL RESPONSIBILITIES

- 2022 – Advisory board member at NTNU Biotechnology - NTNU / Norway

- 2016 – PhD Examiner for 5 Committees: Karolinska Institutet / Sweeden; University of Oslo / Norway; Université de Montpellier / CNRS / France; ETH / Switzerland; NTNU / Norway
- 2013–2016 Graduate Student Co-Advisor: Swiss Federal Institute of Technology - ETH / Institute of Food, Nutrition, and Health / Switzerland; Massachusetts Institute of Technology / USA

REVIEWING ACTIVITIES

- 2023 – Member of the editorial board in DNA Repair
- 2020 – Reviewer for different funding agencies: WellcomeTrust, ISF, BBSRC, ANR-France
- 2010 – Reviewer for multidisciplinary scientific research journals: Nucleic Acids Research, eLife, Cell Reports, Chem. Res. in Toxicol., The Journal of Biological Chemistry, DNA Repair, Scientific Reports, PlosONE, Oncotarget, Frontiers in Genetics, Trends in Biochemical Sci., Trends in Gen., ACS Chemical Biology, Cells (more than 100 manuscripts reviewed)
- 2015 Guest Editor of Special Issue in DNA Repair Vol. 29 pg.1-180

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 2021 – Member of Environmental mutagenesis society
- 2016 – Member of: Norwegian Biochemical Society / Norwegian Neuroscience Society
- 2014 – 2016 Member of: German Society for Research on DNA Repair / Research Network “EpiGeneSwiss”

TRACK RECORD SUMMARY

To date I have published 38 articles in peer-reviewed journals (17 with IF higher than 12); including 11 as last author.

Citations: Scopus: *Total citations: 1278; h-index: 20*
 Google Scholar: *Total citations: 1767; h-index: 24*

Selected Invited presentations to internationally established conferences and/or international advanced schools (from the last 5 years)

- 2022 Lecture at the 7th US•EU Meeting on Endogenous DNA Damage and Repair, Stony Brook University, USA
- 2022 Lecture at the Oslo Epigenetics Symposium 2022, Oslo, Norway
- 2021 Seminar at Karolinska Institute, Sweden
- 2021 Seminar at Akershus University Hospital, Oslo, Norway
- 2019 Keynote Lecture at Congress of the Croatian Society of Biochemistry and Mol. Biology, Lovran, Croatia
- 2019 Seminar at CNR, University of Pavia, Italy
- 2018 Seminar at University of Sussex, UK
- 2018 Keynote Lecture at the Norwegian Biochemical Society Meeting, Lillehammer, Norway