

CURRICULUM VITAE**Cornelia Spetea Wiklund**

- Position** Professor of Plant Cell Physiology since Feb 2011, University of Gothenburg
- Address** Dept. Biological Environmental Sciences, University of Gothenburg, 40530 Gothenburg
Tel. +46-317869332, email: cornelia.spetea.wiklund@bioenv.gu.se
- Education** M. Sc. (Biology) University of Bucharest, 1992
PhD (Molecular Cell Biology) University of Szeged, Hungary, 1997
Docent (Molecular Cell Biology) Linköping University, 2007
- Awards, fellowships** IVA 100-list by Royal Swedish Academy of Engineering Sciences, 2020
Sabbatical grant, Princeton University, 2019
Nominated for Jan Andersson Award in photosynthesis research, 2018
Nominated for Wallenberg scholars, 2018
The Royal Society of Arts and Sciences in Gothenburg travel fellowship, 2013, 2016
Adlebertska research fellowship, 2013
Wallenberg travel fellowship, 2006
Helge Ax:son Johnsons travel and research fellowship, 2002
Wenner-Gren postdoctoral fellow Stockholm University, 1997-1998
STINT postdoctoral Fellow Stockholm University, 1996-1997
United Nations and Hungarian Academy of Sciences Research fellowship, 1992-1993
- Previous positions** 2008-2014, Rådsforskare VR, 2009-2010, Professor, IFM, Linköping University, 2002-2008, Forskarassistent VR, IBK, Linköping University; 1999-2002 Research associate, IBK, Linköping University; 1996-1999, Post doc, Stockholm University; 1992-1996, PhD student, Biological Research Center, Szeged, Hungary
- Parental leave** totally 22 months for Emil and Julia Wiklund, 2002-2005
- Research grants** Merenergi (2022-2027) ‘Circular microalgae cultivation in RAS wastewater for high-value biomass production’(PI: 4 300000 SEK). The Swedish Research Council VR, 2022-2025 ‘Uncovering ion transporters important for photosynthetic function’ (PI: 3 870000 SEK), Olle Engkvists Stiftelse (2022-2024) ‘Algae4H2 – en effektiv och hållbar metod för fotobiologisk produktion av vätgas’ (PI: 800000 SEK), Carl Tryggers Foundation (CTS, 2021-2022) ‘Ion transporters important for photosynthetic function in green microalgae’ (PI: 822000 SEK), Sabbatical grant Princeton University (UGOT, 2019) (PI: 634000 SEK), The Swedish Energy Agency (Energimyndigheten, 2018-2020) ‘Energy-efficient cultivation of marine microalgae for biomass production’ (PI: 4928000 SEK, collaboration UGOT-RISE), The Swedish Research Council (VR, 2017-2021) ‘Regulation of photosynthesis by ion fluxes in a rapidly changing environment’ (PI: 3083000 SEK).
- Supervision** PhD students as main advisor: Kim van Maldegem (2022-), Emilija Dukic (defended 2022); Lisa Adolfsson (defended 2016), Andrei Herdean (defended 2015), Lan Yin (defended 2014), Milton Karlsson (defended 2014), Björn Lundin (defended 2008), Sophie Thuswaldner (defended 2007)

Postdocs as main advisor: 2022- Fatemeh Koshivatabar, 2021- Kashif Shaikh, 2019-2021 Valeria Villanova, 2017-2020 Otilia Cheregi, 2014-2016 Hugues Nziengui, 2011-2013 Jenny Carlsson, PhD at SLU Uppsala; 2010-2014 Azeez Beebo; 2005-2010, Lorena Ruiz Pavón

Keynote speaker >55 talks at international and Swedish conferences, workshops, university seminars

International collaborators Martin Jonikas (Princeton), Luke Mackinder (York), Alistair McCormick (Edinburgh), Eva-Mari Aro (Turku), Katalin Solymosi (Budapest), Szilvia Toth (Szeged)

UGOT assignments Chair, Docent board, Faculty of Science, UGOT, 2018-
Member Docent board for BioEnv, 2015-
Advisory Dept. board member (IR), BioEnv, UGOT, 2013-2018
Advisory research board member, BABOR BioEnv, 2013-2020
Support scientist for European Plant Science Organization of UGOT 2015-2020
Member of electing committee for VR-NT of UGOT 2015, 2018
Member of examiner Board for PhD studies at BioEnv, 2013-
Organizer of Workshop *Membrane transport in biology and medicine*, UGOT, 2013
Organizer of 4 graduate courses in chlorophyll fluorescence and photosynthesis, 2011-

National Assignments Council member SFBBM, 2016

Organizer Workshop *Membrane transport in biology and medicine*, Gothenburg, 2013
The Swedish Research Council evaluation board for research grants (NT-J), 2009-2012

International assignments Main Organizer *Nordic Photosynthesis Congress*, Gothenburg, 2021
Chair Symposium *Electron and Proton Transfer*, ePS1 Congress, Uppsala, 2018
SPPS council member and journal responsible 2015-2021
Organizer Symposium *Photosynthetic response to a changing environment - Towards sustainable energy production* at SEB congress, Gothenburg, 2017
Chair Symposium *Electron and Proton Transfer in photosynthesis*, PS17 congress, Maastricht, 2016
FEBS evaluation board for fellowships, 2011-2014
Chair Symposium *Responding to Environmental Perception*, FEBS-IUBMIB Congress, Seville, 2012
Scandinavian Society of Plant Biology (SPPS) council and Journal responsible, 2015-

Editorial assignments Associate Editor *Front Plant Physiol*, 2018-
Invited Guest editor *Physiol Plant* Special Issue: Photosynthesis, 2018-2019
Invited Guest editor *Front Plant Sci* Research Topic: Spetea, C., Szabò, I., Kunz, H-H. Ion Transport in Chloroplast and Mitochondria Physiology in Green Organisms, 2017
Invited Guest editor *Phil Trans R. Soc* issue: Spetea, C., Rintamaki, E., Schoefs, B. Changing the light environment: chloroplast signalling and response mechanisms, 2014
Referee for international journals (>5 times/year: *Nature*, *Nat. Plants*, *Plant Physiol.*, *Mol Plant*, *Photosynth. Res.*, *BBA*, *FEBS Lett.*, *Physiol. Plant.*, *Planta*, *J. Exp. Bot.*, *Front Plant Sci*).

Publications 93 international peer-reviewed papers (44 research articles including 20 as corresponding author, 12 reviews, 3 editorials, 3 book chapters, 14 conference proceedings), Total of 3861 citations, h index=33 (data retrieved from Google Scholar

2022-12-21: Spetea C), 7 PhD, dissertations, 1 preprint, 2 reports, 31 popular articles, 66 conference abstracts

Research orientation

-two basic research projects deciphering the network of ion transporters operating in the chloroplast to effectively adjust photosynthesis in land plants and algae (ongoing funding by VR, CTS)

-two applied research projects in biomass and hydrogen production using microalgae from the Swedish west coast (ongoing funding from Olle Engkvist and Merenergi).

Webpage <https://www.gu.se/en/research/phobio-regulation-of-photosynthesis-and-renewable-biomass-production>

Outreach activities Lectures for schools, Gothenburg botanical garden, Vetenskapsfestivalen; press releases for published articles, interviews for VetenskapsRadio P1 and Univ. Gothenburg, practical demonstrations on photosynthesis, youtube demonstrations, Energimyndigheten-funded applied research project in collaboration with RISE, commissioned research for Merenergi

Pedagogic competence

2013 course for experienced supervisor at University of Gothenburg: HPE202

2001-2006 courses in academic pedagogy at Linköping University: Steg 1-3

Teaching experience

2001-2011 in Linköping: 5 undergraduate courses on Plant Cell, Photosynthesis, Genomics, Evolution, Immunological techniques; course responsible for Genomics and Bioinformatics (9 ECTS), Functional Genomics (6 ECTS) (20% of employment)

2011- in Gothenburg: 9 undergraduate courses in Cell biology (BIO900), Developmental Biology (BIO213), Plant Physiology and Plant Biotechnology (BIO530); course responsible for Plant Physiology (BIO350, 15 ECTS) within the biology programme, and Plant Physiology (LGIB20, 7.5 ECTS) with the teacher programme

Supervision of 2 Bachelor, 5 Master, 7 trainee projects

30% of employment 2012-2020, 20% 2021-2022 and 15% starting 2023)