

Johannes W. Goessling

Ph.D. in Marine Microbiology

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Research Interest:

Biological optical systems and bio-inspired light harvesting technologies.

Education

2017	University of Copenhagen (DK) Department of Biology (Biophotonics of diatoms)	Ph.D.
2012	University of Giessen (DE) Faculty of Biology and Chemistry (Biology/Plant Sciences)	M.Sc.
2009	University of Giessen (DE) Faculty of Biology and Chemistry (Biology)	B.Sc.

Professional Appointments

...	Postdoctoral Fellow (Marie Curie COFUND)	
2018	Department of Nanophotonics International Iberian Nanotechnology Laboratory, Braga (PT)	
2018	Postdoctoral Fellow Remote Sensing and benthic Ecology Laboratory University of Nantes (FR)	
2017	Ph.D. Student	
2014	Department of Biology (Marine Biological Section) University of Copenhagen (DK)	
2014	Research Associate	
2012	Institute for Botany University of Hanover (DE) and BAYER Crop Science, Gent (BE)	

Administrative and Collective Duties

- Since 2015 Regular reviewer for
- Scientific Reports
 - Environmental Microbiology
 - Estuarine, Coastal and Shelf Science
 - Ecological Indicators
- 2016 Organizing committee 'Ph.D. day 2016'
University of Copenhagen (Denmark)
- 2005 Social service, Boarding school for blind and visually impaired children
Soest (DE)

Presentations at International Conferences

- 2018 Oral presentation, Living Light Conference
Cambridge (UK)
- 2017/
2016 Poster presentation, Danish Microbiological Society Annual Congress
Copenhagen (DK)
- 2016 Poster presentation, Living Light Conference
San Diego (US)
- 2014 Poster presentation, Coastal Systems under Change (ECSA 54)
Sesimbra (PT)
- 2011/
2009 Poster presentation, Tropentag
Bonn (DE) and Zürich (CH)

Mentoring Activities in Courses

- 2017 Aquatic photosynthesis (Copenhagen)
- 2016/
2015 Marine Microbiology (Copenhagen)
- 2015 General Microbiology (Copenhagen)
- 2013/
2012 Photosynthesis Research (Hanover)
- 2010/
2009 Plant Stress Ecology (Giessen)
- 2009 General Genetics (Giessen)

List of Publications

As corresponding author

1. 2018: **Goessling, J.W.**, Su, Y., Cartaxana, P., Maibohm, C., Rickelt, L.F., Trampe, E.C., Walby, S., Wangpraseurt, D., Wu, X., Ellegaard, M. & Kühl, M. Structure-based optics of centric diatom frustules: Modulation of the *in vivo* light field for efficient diatom photosynthesis. *New Phytologist*. 219(1):122-134
2. 2017: **Goessling, J.W.**, Frankenbach, S., Ribeiro, L., Serodio, J. & Kühl M. Modulation of the light field related to valve optical properties of raphid diatoms: implications for niche differentiation in the microphytobenthos . *Mar. Ecol. Progr. Ser.* 588:29-42
3. 2017: Becker, V.I., **Goessling, J.W.**, Duarte, B., Caçador, I., Liu, F., Rosenqvist, E., and Jacobsen, S.E. Combined effects of soil salinity and high temperature on photosynthesis and growth of quinoa plants (*Chenopodium quinoa* Willd.). *Funct. Plant Biol.* 44(7), 665-678
4. 2016: **Goessling, J.W.**, Cartaxana, P., and Kühl, M. Photo-protection in the centric diatom *Coscinodiscus granii* is not promoted by high-light chloroplast avoidance movement. *Front. in Mar. Sci.* 2016(2), 1–10

As co-author

5. 2016: Cartaxana, P., Ribeiro, L., **Goessling, J.W.**, Cruz, S. and Kühl, M.. Light and O₂ microenvironments in two contrasting diatom-dominated coastal sediments. *Mar. Ecol. Progr. Ser.* 545, 35-47
6. 2015: Duarte, B., **Goessling, J.W.**, Marques, J.C., and Cacador, I.. Ecophysiological constraints of *Aster tripolium* under extreme thermal events impacts: Merging biophysical, biochemical and genetic insights. *Plant Phys. and Biochem.* 97, 217-228
7. 2011: Kammann C., Linsel S., **Goessling J.W.** and Koyro H.W. Influence of biochar on drought tolerance of *Chenopodium quinoa* Willd. and on soil-plant relations. *Plant and Soil* 345, 195-210