

CURRICULUM VITAE

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Education

2003: MMT (Master in Management of Technology), Aalborg University.
1997: Ph.D. in Microbial Ecology, Institute of Biology, Aarhus University.
1994: Master's degree in biology, Aarhus Universitet
1986: Bachelor's degree in medicine, Aarhus Universitet

Occupation

2012- present Researcher, academic co-worker, Department of Biology, Aarhus University
2011 - 2012 Independent consultant
2004 - 2011 Chief Scientific Officer of IT, Medico-technology and Electronics, Unisense A/S, Aarhus.
Responsible for development of medical applications of Unisense products.
Responsible for development of electronics, software and advanced instruments.
Responsible for scientific collaboration projects.
1999 - 2004 Project manager, Unisense A/S, Aarhus
1997 -1999 Post.doc. position, Institute of Biology, Aarhus University.

Projects

2017-present Participant in Center for Electromicrobiology, Aarhus University.
2019-present Scientific core group member in Center for Electromicrobiology, Aarhus University.
2019 - 2023 PI and project leader of the cross-disciplinary and cross-sectorial project BIOMAP funded by Innovation Fund Denmark

Research publications

- Sachs, C., Kanaparthi, D., Kublik, S., Szalay, A.R., Schloter, M., Damgaard, L.R., Schramm, A. and Lueders, T. (2022) Tracing long-distance electron transfer and cable bacteria in freshwater sediments by agar pillar gradient columns. *FEMS Microbiology Ecology* 98.
- Damgaard, L. R., Kelly, C., Casciotti, K., Ward, B. B., & Revsbech, N. P. (2020). Amperometric sensor for nanomolar nitrous oxide analysis. *Analytica Chimica Acta*, 1101, 135-140. <https://doi.org/10.1016/j.aca.2019.12.019>
- Rahlff, J., Stolle, C., Giebel, H. A., Ribas-Ribas, M., Damgaard, L. R., & Wurl, O. (2019). Oxygen profiles across the sea-surface microlayer: effects of diffusion and biological activity. *Frontiers in Marine Science*, 6, [11]. <https://doi.org/10.3389/fmars.2019.00011>
- Cornelissen, R., Bøggild, A., Thiruvallur Eachambadi, R., Koning, R. I., Kremer, A., Hidalgo-Martinez, S., ... Meysman, F. J. R. (2018). The Cell Envelope Structure of Cable Bacteria. *Frontiers in Microbiology*, 9, [3044]. <https://doi.org/10.3389/fmicb.2018.03044>
- Müller, H., Bosch, J., Griebler, C., Damgaard, L. R., Nielsen, L. P., Lueders, T., & Meckenstock, R. (2016). Long-distance electron transfer by cable bacteria in aquifer sediments. *The ISME Journal*, 10, 2010-2019. <https://doi.org/10.1038/ismej.2015.250>
- Bjerg, J. T., Damgaard, L. R., Holm, S. A., Schramm, A., & Nielsen, L. P. (2016). Motility of electric cable bacteria. *Applied and Environmental Microbiology*, 82(13), 3816-3821. <https://doi.org/10.1128/AEM.01038-16>
- Risgaard-Petersen, N., Kristiansen, M., Frederiksen, R., Lindequist Dittmer, A., Bjerg, J. J., Trojan, D., ... Nielsen, L. P. (2015). Cable Bacteria in Freshwater Sediments. *Applied and Environmental Microbiology*, 81(17), 6003-6011. <https://doi.org/10.1128/AEM.01064-15>
- Damgaard, L. R., Risgaard-Petersen, N., & Nielsen, L. P. (2014). Electric potential microelectrode for studies of electrobiogeophysics. *Journal of Geophysical Research: Biogeosciences*, 119(9), 1906-1917. <https://doi.org/10.1002/2014JG002665>
- Risgaard-Petersen, N., Damgaard, L. R., Revil, A., & Nielsen, L. P. (2014). Mapping electron sources and sinks in a marine biogebattery. *Journal of Geophysical Research: Biogeosciences*, 119(8), 1475-1486. <https://doi.org/10.1002/2014JG002673>
- Damgaard, LR., Revsbech, NP., & Reichardt, W. (1998). Use of an oxygen-insensitive microscale biosensor for methane to measure methane concentration profiles in a rice paddy. *Applied and Environmental Microbiology*, 64(3), 864-870.
- Damgaard, LA., & Revsbech, NP. (1997). A microscale biosensor for methane containing methanotrophic bacteria and an internal oxygen reservoir. *Analytical Chemistry*, 69(13), 2262-2267. <https://doi.org/10.1021/ac9611576>

Patents

Main autor of two patent families (PCT/DK99/00522, WO 97/19345.18) and co-autor of two patent families (EP1455643, US Patent 2006/0099570 A1)