

## PERSONAL INFORMATION

Name: Amelia-Elena Rotaru  
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Nationality: Romanian  
Permanent residence: Denmark  
Birth date and place: 04.03.1980, Ramnicu Valcea  
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## RESEARCH AREA

Environmental Microbiology, Microbial Physiology and Ecology with a focus on the carbon cycle and interactions of microorganisms with their extracellular environment (minerals, metals, other cells), Electromicrobiology with a focus on biological energy storage and conversion.

## CURRENT POSITION

**Professor of Microbial Physiology & Biochemistry**, Dept. Biology, Uni. Southern Denmark

## PREVIOUS POSITIONS

2018 – 2022 Associate Professor, Department of Biology, Uni. Southern Denmark  
2017 (6 mo.) Guest Assist. Professor, Dept. Microbiology, Uni. Massachusetts Amherst, USA  
2015 – 2018 Assistant Professor, Department of Biology, Uni. Southern Denmark  
2013 – 2015 FNU Postdoc Fellow. Department of Biology, Uni. Southern Denmark  
2010 – 2013 Postdoc. Department of Microbiology, Uni. Massachusetts Amherst, USA  
2009 – 2010 Postdoc. Interdisciplinary Nanoscience Center, Uni. Aarhus, DK

## OTHER POSITIONS

2022 – now Editor, American Society of Microbiology, Microbiology Spectrum  
2022 – now Associate Editor, Frontiers in Microbiology, Microbial Physiology  
2022 (4 mo.) Researcher, Biochemistry Institute of the Romanian Academy of Science, RO

## EDUCATION

2005 – 2009 **PhD in Marine Microbiology (Dr. Rer. Nat.)**  
University of Bremen, Max Planck Research School for Marine Microbiology, DE  
2003 – 2005 MSc in Marine Microbiology  
University of Bremen, Max Planck Research School for Marine Microbiology, DE  
1998 – 2002 BSc in Biochemistry and Molecular Biology  
University of Bucharest, RO

## GRANTS & AWARDS (selected)

At SDU, I attracted ca. 9 million € in external funding, over the last 8 years.

2022 – 2027 PI, **ERC Consolidator grant** (2 million €), European Research Council  
2022 – 2026 Co-I, FTC grant (249 839 €), Portuguese Science Foundation, PT  
2021 – 2026 PI, **Ascending Investigator grant** (1 308 000 €), Novo Nordisk Foundation  
2021 – 2025 PI, Research project 2/collaboration grant (832 486 €), Danish Research Council  
2015 – 2020 PI, **Sapere Aude Leadership startup grant** (941 336 €), Danish Research Council  
2019 EMBO-Breathless Microbes invited lecturer travel grant, Uni. Wageningen, NL  
2014 – 2019 Co-I, WP leader, Innovations Fond grant (2 689 532 €), Innovations Fond Denmark  
2015 – 2018 PI, Novo Nordisk postdoc fellowship (336 191 €) by the Novo Nordisk Foundation.  
2016 **Fyens Stiftidsende research excellence prize** (3400 €), Fyens Stiftidsende, DK

- 2013 – 2015 PI, postdoc fellowship FNU MOBILEX (268 953 €), Danish Research Council  
 2013 – 2016 PI, postdoc fellowship Dale T. Mortensen, AIAS, AU (322 743 €, *declined*)  
 2006 Teaching award, International Max Planck Research School, DE  
 2003 – 2005 MSc fellowship, International Research School, Max Planck Society, DE  
 1998 – 2002 Excellence fellowship, 3<sup>rd</sup> best of ~1000 at admission exam, Uni. Bucharest, RO

### PROFESSIONAL TRAINING (at SDU)

- 2020 (6 mo.) Leadership Training with personal coach  
 2019 Ph.D. supervision course  
 2016 – 2017 University Lecturer Training Program  
 2014 Career development workshop

### ACADEMIC SERVICE

#### **At SDU**

- Since 2021 Committee chair/member for hiring, promotion, and tenure review at the department of biology & DIAS (Danish Institute for Advanced Studies)  
 Since 2020 Committee chair for 4+ PhD defenses at the department of biology  
 Since 2020 Member of the sustainability committee for the Natural Science Faculty  
 Since 2020 Elected auxiliary member for the departmental council  
 2020 Member of the curriculum design committee at the department of biology  
 Since 2019 Organizer of the departmental lecture series, SDU/ DK  
 Since 2019 Responsible for redesign of the Nordcee-section website, and digital representation of the Nordcee section  
 2018 – 2022 Member of teaching committee (*ad-hoc* replacement for Prof. Bo Thamdrup)  
 Since 2018 **Co-leader of the research section** with other PIs, Nordcee, SDU/ DK

#### **External**

- Since 2023 **International Advisory Board Member**, Wageningen Institute for Environment & Climate Research, NL  
 2023 Conference and visit coordinator at SDU for a PhD visit by the graduate school in environmental engineering from Wageningen Uni/ NL (ca. 50 participants)  
 2021 External tenure evaluator, AU/ DK  
 Since 2020 External advisory committee member for Linda Vu, University of Cincinnati/ USA  
 Since 2017 **Reviewer for international funding agencies:** European Research Council, Dutch Research Council, Helmholtz Society in Germany, National Science Foundation USA, German Research Foundation.  
 Since 2017 External referee at Ph.D. defenses in Denmark, Australia, Finland & Netherlands  
 Since 2016 Conference committee member, EU-ISMET in Italy (2016) & Netherlands (2023) and Electromicrobiology in Denmark (2022)  
 2012 – 2021 Guest Editor, Frontiers in Microbiology, Microbial Physiology & Geomicrobiology  
 Since 2012 Reviewer for 24+ journals, including Science, PNAS, ISME Journal

### MEMBERSHIPS

American Society of Microbiology (ASM), Danish Microbiological Society (DMS), International Society of Microbial Electrochemical Technologies (ISMET)

### RESEARCH EXPEDITIONS

- 2022 Baltic Sea transect, Bornholm Basin, Denmark (9 days)  
 2022-2023 Day-long expeditions coastal Denmark (Aarhus Bay, Gyldesteen, Rømø)  
 2014 Baltic Sea transect, Bothnian Bay, Sweden (2 weeks)  
 2014 Lago La Cruz, Spain (2 weeks)

**MENTORING & TRAINING****Currently at SDU:**

Staff scientist: Satoshi Kawaichi (September 2022 - present)  
 Postdoc: Rhitu Kotoky (July 2022 - present)  
 Postdoc: Konstantinos Anestis (September 2022 - present)  
 Postdoc: Ghazaleh Gharib (November 2022 - present)  
 Postdoc: Tetyana Gilveska (guest Marie Curie fellow, August 2022 - present)  
 PhD student: Abdalluh Jabaley (September 2021 - present)  
 PhD student: Danijel Jovicic (October 2021 - present)  
 PhD student: Malene Arreborg (September 2022 - present)  
 PhD student: Karina Hernandez (November 2022 - present)  
 PhD student: Yanan Wang (guest CAS fellow, March 2023 – March 2024)  
 MSc student: Sarah Sabro Damgård (September 2023 – present; 2022-2023 – BSc student)  
 MSc student: Sebastian Bak Bjørnskov (September 2023 – present; 2022-2023 – BSc student)  
 MSc student: Anne Marie Nygaard Andersen (September 2023 - present)  
 BSc student: Anne Salgård Anderson (February 2022- July 2023)  
 BSc student: Ask Våtvik Balslöv (February 2022- August 2023)  
 Lab tech.: Lasse Ørum Smidt (2016 - present)

**Previously at SDU:**

PhD student: Mon Oo Yee (September 2015 – October 2019)  
 PhD student: Paola Palacios (March 2016 – May 2019)  
 Postdoc: Paola Palacios (2019, 3 mo.)  
 Postdoc: Satoshi Kawaichi (2016-2018)  
 Postdoc: Oona Snoeyenbos-West (2016-2018)  
 Postdoc: Xiaochen Yang (2018, 2mo.)  
 MSc & BSc: Casper Krog Pedersen (2021-2022)  
 MSc interns: Pamela Ciacia (2023 – 3 mo., ERASMUS)  
 Valentina Palushi (2023 – 3 mo., ERASMUS)  
 MEng co-supervision: Malene Arreborg from SDU Engineering (2021-2022)  
 Danijel Jensen from AU Engineering (2017-2018)  
 Guests: Roman Seitshiro (2023) visiting PhD student from Uni. Manchester/ UK  
 Alisa Socolov (2022) visiting PhD student from Uni Vienna/ Austria  
 Kelsey Lowe Rogers (2019-2020) visiting postdoc from KU/ DK  
 BSc students: Malene Arreborg (2020-2021)  
 Casper Krog Pedersen (2020-2021)  
 Hans Frederik Hansen (2018, 3 mo.)  
 Jakob Bang Rønning (2017-2018)  
 Viktor Hundtofte Mebus (2017, 3 mo.)  
 Rie Pors (2016, 3 mo.)  
 Lab tech: Marius Florescu (2015, 6 mo.)

**Prior to appointment at SDU:**

Postdocs: 1 at Uni. Massachusetts Amherst, USA (2011)  
 PhD students: 1 at Aarhus Uni. DK (2009), 2 at Uni. Massachusetts Amherst, USA (2012, 2017)  
 MSc students: 2 at MPI for Marine Microbiology, Bremen, DE (2006, 2007)  
 BEng students: 1 at Uni. Massachusetts Amherst, USA (2012)  
 BSc students: 3 at Uni. Massachusetts Amherst, USA (2011-2013)  
 1 at MPI for Marine Microbiology, Bremen, DE (2006)

**TEACHING****Formal pedagogical training**

2019: Ph.D. Supervisor course; SDU, DK  
 2016-2017: Lecturer training program; SDU, DK  
 Pedagogical training program for assistant professors at Danish universities

**Current teaching at SDU**

- Since 2021 Pharmaceutical Biology ([FA508](#)), Co-lecturer, 10-ECTS, 100-110 pharmacy undergraduates (lectures and seminars in cell biology & biochemistry)
- Since 2021 Biology from molecules to ecosystems ([BB537](#)), Course coordinator & (Since 2015) Co-lecturer, 10-ECTS, 60-80 biology undergraduates (lectures and seminars in cell biology, biochemistry & evolution)
- Since 2021 Basic ecology and biogeochemistry ([BB905](#)), Co-lecturer, 2.5-ECTS, 5-10 climate adaptation master students (lectures in sustainable microbial biotechnology)
- Since 2016 Microbial ecology & Biogeochemical cycles ([BB540](#)), Co-lecturer, 10-ECTS, 15-20 biology undergraduates (lectures, seminars and laboratory exercises in electromicrobiology)
- Since 2016 Sustainable future ([BB549](#)), Co-lecturer, 5-ECTS, 50-60 biology undergraduates (lectures in sustainable microbial biotechnology)

**Previous teaching at SDU**

- 2019-2022 First year project ([FF501](#)) Course coordinator & Co-lecturer, 10-ECTS, ~300 natural science undergraduates
- 2018-2020 Chemistry, Biology and Molecular Biology – the Empiric Experimental Science ([FF503](#)), Co-lecturer, 20-ECTS, ~300 natural science undergraduates (lectures on evolution)
- 2015 Biomonitoring pollution in freshwater systems ([BB515](#)), Co-lecturer, 5-ECTS, 15-20 biology undergraduates (lectures and laboratory exercises in toxic algal blooms and impact of toxic algae on food webs)
- 2014 Pharmaceutical toxicology ([BB523](#)), Co-lecturer, 5-ECTS, 60-70 pharmacy undergraduates (laboratory exercises using an HPLC to identify toxins)

**Teaching outside or prior to SDU**

- 2019 European Ph.D. summer school [Breathless Microbes](#) by EMBO, Co-lecturer, ~20 PhD students at Wageningen University/ NL (lecture on cultivation of electroactive microorganisms)
- 2006 – 2008: Biology of the prokaryotes, Co-lecturer, 10-20 marine microbiology master students Max Plank Institute for Marine Microbiology/ DE (lab exercises in general microbiology, tutorials on thermodynamics and lectures on interspecies interactions),

**MAJOR COLLABORATIONS** (as of 2022, selected)

SDU, DK	A/Prof. Jacek Fiutowski – helium ion microscopy
Aarhus University, DK	Prof. Bo Barker Jørgensen, A/Prof. Kasper Urup Kjeldsen, A/Prof. Hans Røy – reversibility of anaerobic methane oxidation in ANME-1 A/Prof. Thomas Bosen, Pia Bomholt Jensen – electron microscopy Prof. Rikke Meyer – extracellular DNA A/Prof. Niculina Musat – NanoSIMS
Water Institute, IT	Director Federico Aulenta, Dr. Stefano Fazi – methane cycling in coastal Mediterranean and volcanic lakes
University Minho, PT	Dr. Gilbero Martin, Prof. Madalena Alves – interspecies interactions via conductive particles in anaerobic digesters
University of Gotheborg, SE	Tetyana Gilveska, A/Prof. Stefano Bonaglia – methane formation from pharmaceuticals
Atomic Energy & Alternative Energies Commission, FR	Dr. Daniel Chevrier, Dr. Damien Faivre – synchrotron micro-X-ray fluorescence microscopy

**TRACK RECORD**

- **Publications: 40** (including 1 preprint) of which 23 as significant contributor
- Sum of times **cited 7100+** (see [Google Scholar profile](#))
- **h-index 30** according to Google Scholar
- **6 highly cited** papers, top 1% in Ecology/Environment, Biology/Biochemistry, Web of Science
- **Other publications:** 1 outreach for the Nature Microbiology Research Community

1. Yee MO, Ottosen LDM, **Rotaru A-E\*** (2022, preprint) The Fate of DIET consortium exposed to continuous and intermittent electrochemical stimulation. *bioRxiv* 2022.03.09.483589.
2. Lyu Z, **Rotaru A-E**, Pimentel M, Zhang CJ, Rittmann SK. The methane moment- Cross-boundary significance of methanogens: Preface. *Frontiers in Microbiology*. 2022 Nov 14;13:1055494.
3. Paquete CM, Rosenbaum MA, Bañeras L, **Rotaru A-E**, Puig S. Let's chat: communication between electroactive microorganisms. *Bioresource Technology*. 2022 Jan 19:126705.  
[WOS highly cited, top 1% in Biology/Biochemistry](#)
4. Palacios PA, Francis WR and **Rotaru A-E\*** (2021) A Win–Loss Interaction on Fe<sup>0</sup> Between Methanogens and Acetogens From a Climate Lake. *Front. Microbiol.* 12:638282. doi: 10.3389/fmicb.2021.638282
5. **Rotaru A-E\***, Yee MO, Musat F. (2021) Microbes trading electricity in consortia of environmental and biotechnological significance. *Current Opinion in Biotechnology*. 2021 Feb 1;67:119-29.
6. Aulenta F, Tucci M, Cruz Viggi C, Dolfing J, Head IM, **Rotaru A-E**. (2021) An underappreciated DIET for anaerobic petroleum hydrocarbon-degrading microbial communities. *Microbial Biotechnology*. Jan;14(1):2-7.
7. Yee MO, & **Rotaru A-E\*** (2020). Extracellular electron uptake in *Methanosarcinales* is independent of multiheme c-type cytochromes. *Scientific Reports*. 10(1), 1-12.
8. Walker DJ, Nevin KP, Holmes DE, **Rotaru A-E**, Ward JE, Woodard TL, Zhu J, Ueki T, Nonnenmann SS, McInerney MJ, Lovley DR. (2020) *Syntrophus* conductive pili demonstrate that common hydrogen-donating syntrophs can have a direct electron transfer option. *ISME Journal* 14, 837–846
9. Yee MO, Deutzmann JS, Spormann A, **Rotaru A-E\*** (2020). Cultivating electroactive microbes-from field to bench. *Nanotechnology* 31 (2020) 174003 (17pp)
10. Palacios PA, Snoeyenbos-West O, Loescher C, Thamdrup B, & **Rotaru A-E\*** (2019). Baltic Sea methanogens compete with acetogens for electrons from metallic iron. *The ISME Journal* 13(12), p.3011
11. Yee MO, Snoeyenbos-West OL, Thamdrup B, Ottosen LDM, & **Rotaru A-E\*** (2019). Extracellular electron uptake by two *Methanosarcina* species. *Frontiers in Energy Research*. 7, 29
12. Maximenko N, Corradi P, Law KL, Van Sebille E, Garaba SP, Lampitt RS ... **Rotaru A-E...** & Thompson RC (2019). Towards the integrated marine debris observing system. *Frontiers in Marine Science*, 6, 447. [WOS highly cited, top 1% in Plant/Animal Science](#)



13. **Rotaru A-E\***, Posth NR, Löscher CR, Miracle MR, Vicente E, Cox RP, ... & Thamdrup B (2019). Interspecies interactions mediated by conductive minerals in the sediments of the Iron rich Meromictic Lake La Cruz, Spain. *Limnetica*. 38(1), 21-40.
14. Holmes DE, **Rotaru A-E**, Ueki T, Shrestha PM, Ferry JG, & Lovley DR. (2018). Electron and proton flux for carbon dioxide reduction in *Methanosarcina barkeri* during direct interspecies electron transfer. *Frontiers in microbiology*, 9, 3109.
15. Ueki T, Nevin KP, **Rotaru A-E**, Wang LY, Ward JE, Woodard TL & Lovley DR. (2018). *Geobacter* strains expressing poorly conductive pili reveal constraints on direct interspecies electron transfer mechanisms. *mBio*, 9(4), e01273-18.
16. **Rotaru A-E\***, Calabrese F, Stryhanyuk H, Musat F, Shrestha PM, Weber HS...& Thamdrup B (2018). Conductive particles enable syntrophic acetate oxidation between *Geobacter* and *Methanosarcina* from coastal sediments. *mBio*, 9(3), e00226-18.
17. Holmes DE, Orelana R, Giloteaux L, Wang LY, Shrestha P, Williams K, ... & **Rotaru A-E\***. (2018). Potential for *Methanosarcina* to contribute to uranium reduction during acetate-promoted groundwater bioremediation. *Microbial ecology*, 76(3), 660-667.
18. **Rotaru A-E\*** & Thamdrup B (2016). A new diet for methane oxidizers. *Science*, 351 (6274), 658-658.
19. **Rotaru A-E\***, & Shrestha PM (2016). Wired for life. *Frontiers in microbiology*, 7, 662.
20. **Rotaru A-E\***, Woodard TL, Nevin KP & Lovley DR (2015). Link between capacity for current production and syntrophic growth in *Geobacter* species. *Frontiers in microbiology*, 6, 744.
21. Liu F, **Rotaru A-E**, Shrestha PM, Malvankar NS, Nevin KP & Lovley DR (2015). Magnetite compensates for the lack of a pilin-associated c-type cytochrome in extracellular electron exchange. *Environmental microbiology*, 17(3), 648-655
22. Shrestha PM, Malvankar NS, Werner JJ, Franks AE, **Rotaru A-E**, Shrestha M... & Lovley DR (2014). Correlation between microbial community and granule conductivity in anaerobic bioreactors for brewery wastewater treatment. *Bioresource technology*, 174, 306-310.
23. Shrestha PM & **Rotaru A-E** (2014). Plugging in or going wireless: strategies for interspecies electron transfer. *Frontiers in microbiology*, 5, 237.
24. Chen S, **Rotaru A-E\***, Liu F, Philips J, Woodard TL, Nevin KP & Lovley DR (2014). Carbon cloth stimulates direct interspecies electron transfer in syntrophic co-cultures. *Bioresource technology*, 173, 82-86.
25. **Rotaru A-E\***, Shrestha PM, Liu F, Markovaite B, Chen S, Nevin KP & Lovley DR (2014). Direct interspecies electron transfer between *Geobacter metallireducens* and *Methanosarcina barkeri*. *Appl. Environ. Microbiol.*, 80(15), 4599-4605. [WOS highly cited, top 1% in Biology/Biochemistry](#)
26. Chen S, **Rotaru A-E\***, Shrestha PM, Malvankar NS, Liu F, Fan W ... & Lovley DR (2014). Promoting interspecies electron transfer with biochar. *Scientific reports*, 4, 5019. [WOS highly cited, top 1% in Environment/Ecology](#)
27. Feist AM, Nagarajan H, **Rotaru A-E**, Tremblay PL, Zhang T, Nevin KP ... & Zengler K (2014). Constraint-based modeling of carbon fixation and the energetics of electron transfer in *Geobacter metallireducens*. *PLoS computational biology*, 10(4), e1003575.

28. **Rotaru A-E<sup>+</sup>**, Shrestha PM<sup>+</sup>, Liu F, Shrestha M, Shrestha D, Embree M ... & Lovley DR (2014). A new model for electron flow during anaerobic digestion: direct interspecies electron transfer to *Methanosaeta* for the reduction of carbon dioxide to methane. *Energy & Environmental Science*, 7(1), 408-415. [WOS highly cited, top 1% in Environment/Ecology](#)
29. Nagarajan H, Embree M, **Rotaru A-E**, Shrestha PM, Feist AM, Palsson BØ ... & Zengler K (2013). Characterization and modelling of interspecies electron transfer mechanisms and microbial community dynamics of a syntrophic association. *Nature communications*, 4, 2809.
30. Shrestha PM, **Rotaru A-E**, Summers ZM, Shrestha M, Liu F & Lovley DR (2013). Transcriptomic and genetic analysis of direct interspecies electron transfer. *Appl. Environ. Microbiol.*, 79(7), 2397-2404.
31. Shrestha PM, **Rotaru A-E**, Aklujkar M, Liu F, Shrestha M, Summers ZM ... & Lovley DR. (2013). Syntrophic growth with direct interspecies electron transfer as the primary mechanism for energy exchange. *Environmental microbiology reports*, 5(6), 904-910.
32. Liu F, **Rotaru A-E**, Shrestha PM, Malvankar NS, Nevin KP & Lovley DR (2012). Promoting direct interspecies electron transfer with activated carbon. *Energy & Environmental Science*, 5(10), 8982-8989. [WOS highly cited, top 1% in Environment/Ecology](#)
33. **Rotaru A-E**, Jiang W, Finster K, Skrydstrup T & Meyer RL (2012). Non-enzymatic palladium recovery on microbial and synthetic surfaces. *Biotechnology and bioengineering*, 109(8), 1889-1897.
34. **Rotaru A-E**, Schauer R, Probian C, Mussmann M & Harder J (2012). Visualization of candidate division OP3 cocci in limonene-degrading methanogenic cultures. *J. Microbiol. Biotechnol.*, 22(4), 457-61.
35. **Rotaru A-E\***, Shrestha PM, Liu F, Ueki T, Nevin K, Summers ZM & Lovley DR (2012). Interspecies electron transfer via hydrogen and formate rather than direct electrical connections in cocultures of *Pelobacter carbinolicus* and *Geobacter sulfurreducens*. *Appl. Environ. Microbiol.*, 78(21), 7645-7651.
36. Hosseinkhani B, Søbjerg LS, **Rotaru A-E**, Emtiazi G, Skrydstrup T, & Meyer RL (2012). Microbially supported synthesis of catalytically active bimetallic Pd-Au nanoparticles. *Biotechnology and bioengineering*, 109(1), 45-52.
37. Morita M, Malvankar NS, Franks A-E, Summers ZM, Giloteaux L, **Rotaru A-E** ... & Lovley DR (2011). Potential for direct interspecies electron transfer in methanogenic wastewater digester aggregates. *mBio*, 2(4), e00159-11.
38. Lovley DR, Ueki T, Zhang T, Malvankar NS, Shrestha PM, Flanagan KA, Aklujkar M, Butler JE, Giloteaux L, **Rotaru A-E**, Holmes DE, Franks AE, Orellana R, Risso C and Nevin KM. (2011). *Geobacter*: the microbe electric's physiology, ecology, and practical applications. In *Advances in microbial physiology* (Vol. 59, pp. 1-100). Academic Press.
39. Bunge M, Søbjerg LS, **Rotaru A-E**, Gauthier D, Lindhardt AT, Hause G ... & Meyer RL (2010). Formation of palladium (0) nanoparticles at microbial surfaces. *Biotechnology and bioengineering*, 107(2), 206-215.
40. **Rotaru A-E**, Probian C, Wilkes H & Harder J (2010). Highly enriched Betaproteobacteria growing anaerobically with p-xylene and nitrate. *FEMS microbiology ecology*, 71(3), 460-468.

**Other publications: Rotaru A-E.** (2019) [Microbes at war](#). Behind the paper blog for the Nature Microbiology Research Community.

**TALKS**

**35+ invited talks** at conferences & universities, of which **6 keynotes**

**Invited/keynote talks at conferences** (selected):

- 2023 DFG Priority Program InterZell, Jena (DE) Invited Speaker
- 2022 ISMET-global conference; Crete (GR) **Keynote speaker**
- 2022 (online) New Topics in Mineralogy 2: The mineral–microbe interface; Invited speaker
- 2022 Microenergy Workshop; Aarhus (DK) Invited speaker
- 2022 ICBM-4; Braga (PT) **Keynote speaker**
- 2022 KNVM Scientific Spring meeting; Arnhem (NL) Invited speaker
- 2021 Electromicrobiology-2; Aarhus (DK) Invited speaker
- 2019 IWA-16 Congress on Anaerobic Digestion; Delft (NL) Invited Speaker
- 2019 SAME-16 Symposium of Aquatic Microbial Ecology, Potsdam (DE) **Keynote speaker**
- 2019 Electromicrobiology-1; Aarhus (DK) Invited speaker
- 2018 ISMET-NA, St. Poul Minnesota (USA) Invited speaker
- 2018 Gordon Res. Conf.: molecular basis of C1-metabolism; Maine (USA) Invited speaker
- 2017 SFB987 Survival Artists Workshop; MPI Marburg (DE) Invited speaker
- 2017 Redox Active Minerals Meeting; Manchester (UK) **Keynote speaker**
- 2017 Geomicrobiology Network Meeting; Manchester (UK) Invited speaker
- 2016 KNVM meeting; Nijmegen (NL) **Keynote speaker**
- 2016 ASM meeting; Boston (USA) Invited speaker
- 2016 JAMS; Sydney (AUT) Invited speaker
- 2015 DMS meeting; Copenhagen (DK) **Keynote speaker**

**Invited talks at academic institutions** (selected):

- 2022, 2023, Max Planck Institute for Marine Microbiology (DE)
- 2021 (online) Radboud University, Radboud (NL)
- 2018 Wageningen Evolution & Ecology Seminars, University of Wageningen, Wageningen (NL)
- 2018 Microbiology Lecture Series; University of Southern Denmark, Odense (DK)
- 2017 Stanford University, Palo Alto (USA)
- 2017 Marburg spotlight on Microbiology (LOWE grad. school invited speaker), MPI Marburg (DE)
- 2017 University of California Dana and Dornsife, Los Angeles (USA)
- 2017 Danish Technological University, Lyngby (DK)
- 2016 University of Oldenburg, Oldenburg (DE)
- 2016 University of New Castle, New Castle (UK)
- 2016 University of New South Wales, Sydney (AU)
- 2016 Helmholtz Center for Environmental Research, Leipzig (DE)
- 2016 Radboud University, Radboud (NL)
- 2015 Departmental Lecture Series; Biology, University of Southern Denmark (DK)
- 2014 Aarhus University, Aarhus (DK)

**OUTREACH**

- 2023 Public lecture and demonstration “The sea is electric”. Electricity produced by microorganisms from marine sediments. Funded by Danish Research Council. SDU Marine Station, Fjord&Bælt, Kerteminde, DK
- 2019 Author of a behind the paper blog [Microbes at war](#) for the *Nature Research Community*
- 2018 – Now: Manager of the Nordcee Twitter account
- 2016 Invited public lecture for the Fyens Stiftstidende award
- 2013 – Now: Interviews with media and featured on various media outlets like [The New Scientist](#) (2013), [Fyens Stiftstidende](#) (2016), [EurekaAlert!](#) (2018), [Phys.org](#) (2018), [Science News](#) (2018), [Zetland](#) (2022)