

## Contact info

**Amelia-Elena Rotaru, PhD**  
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Department of Biology  
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## Employment

2018 - now Associate Professor Microbial Physiology, University of Southern Denmark, DK  
2017 Guest Assistant Professor, University of Massachusetts, Amherst, USA  
2015- 2018 Assistant Professor, University of Southern Denmark  
2013-2015 Postdoc Fellow DFF, University of Southern Denmark  
2010-2013 Postdoc, University of Massachusetts, Amherst, USA  
2009-2010 Postdoc, University of Aarhus

## Education

2005-2009 PhD, Max Planck Institute for Marine Microbiology, Germany  
2003-2005 MSc, Max Planck Institute for Marine Microbiology, Germany  
1998-2002 BSc in Biochemistry, University of Bucharest, Romania

## Grants

2015- : **Sapere Aude DFF FNU Research Leader** (principle investigator)  
2015- : **Novo Nordisk Foundation** (principle investigator)  
2015- : **Innovationsfonden grant** (work package leader)  
2013-2015 : **Danish Research Council independent research grant** (principle investigator)  
2014-2017 : **Dale T. Mortensen fellowship** (principle investigator) - *declined*.

## Prizes/Honors

**Fyens Stiftstidendes Forskerpris**  
Rotaru, A.-E. (Recipient), 9. May 2017

### **MARMIC teaching award**

Rotaru, A.-E. (Recipient), 2006

## Scientific services and committees

Grant assessor: European Research Council / REA-FET Open; NSF (USA); DFG (DE); NWO – The Dutch Research Council (NL)  
PhD thesis referee: 2 DK; 1 AUT; 1 FI and 1 NL  
part A Ph.D. thesis referee: 1 AU (DK)  
Reviewer for: Science, PNAS, ISME J, mBio, Water Res, Sci Rep, AEM, ES&T, Front Microbiol etc.  
Editor (guest): 5 different Frontiers Journals (see Publons reviewer account)

## Teaching and supervision

### **FORMAL EDUCATION TRAINING**

2020: Leadership training with personal coach; SDU, DK  
2019: Ph.D. Supervisor course; SDU, DK  
2016-2017: Lecturer training program; SDU, DK  
2016: Active learning and teaching using flipped learning; SDU, DK  
2016: Interactive lecturing; SDU, DK  
2017: Questioning: how it can support learning, teaching and assessment

### **ADMINISTRATIVE TASKS RELATED TO EDUCATION**

2018 – now: planning of courses BB537; FF503

2018: teaching committee (*ad-hoc* replacing Prof. Bo Thamdrup)

### TEACHING EXPERIENCE

2019: EMBO European PhD summer school/Breathless microbes (invited lecture on the cultivation of electrophiles); NL  
2018 – now: BB540 Microbial ecology & biogeochemical cycles (lectures on extracellular electron transfer); (2 x 2h lectures; ECTS 10); SDU, DK  
2016 – now: BB537 Biology from molecules to ecosystems (20 x 1h lectures and preparation of 7x3h tutorial materials for biochemistry and evolution; ECTS 10); SDU, DK  
2016 – now: BB536 Sustainable future (1h guest lecture on bioelectrochemical technologies for sustainability; ECTS 5); SDU, DK  
2015: BB515 Biomonitoring pollution in freshwater systems (3 x 1h lectures toxic algae blooms; ECTS 5); SDU, DK  
2006 – 2008: Biology of Prokaryotes (3 x 1h guest lectures on syntrophy); MPI Marine Microbiology, Bremen, DE

### LAB INSTRUCTOR, LAB ASSISTANCE, TUTORING

2018– now: BB540 Microbial ecology & biogeochemical cycles (2 x 6h labs extracellular electron transfer); SDU, DK  
2015: BB515 Biomonitoring of pollution in freshwater systems (1 week as an instructor for labs on the impact of toxic algae on food webs); SDU, DK  
2014: BB523 Pharmaceutical toxicology (lab assistant HPLC identification of toxic compounds)  
2007: Thermodynamics tutorials/Biology of the prokaryotes (tutoring MSc student in thermodynamics); MPI for Marine Microbiology, Bremen, DE  
2005-2007: Biology of the prokaryotes (lab assistant); MPI for Marine Microbiology, Bremen, DE

### DISTINCTIONS AND AWARDS IN TEACHING

2006: Teaching Award; International Max Planck Research School for Marine Microbiology; Bremen (DE)

### EXAMINATION COMMITTEES

PhD thesis referee: 2 DK; 1 AUT; 1 FI and 1 NL  
part A; Ph.D. thesis referee (scheduled): 1 AU (DK)  
MSc thesis referee: 2 at KU (DK)

### SUPERVISION

#### *Ph.D. students (2)*

2015– now; M.O. Yee (4+4 Ph.D. program); Thesis: “*Extracellular electron transfer in methanogenic Archaea*”; SDU, DK  
2016 - 2019: P.A. Palacios (5+3 Ph.D. program); Thesis: “*Microbial induced corrosion by methanogens and other associated microbial groups*”; SDU, DK

#### *Co-supervision of visiting Ph.D. students (3)*

2017: J. Zhang, University of Massachusetts Amherst, MA, USA  
2011-2012: S. Chen, University of Massachusetts Amherst, MA, USA  
2009-2010: B. Hosseinkhani, AU, DK

#### *Postdocs (3)*

2019: visiting researcher K. Lowe Rogers from KU. Activities at SDU, DK.  
2019– now: P.A. Palacios, SDU, DK  
2018: intern X. Yang, SDU, DK  
2016 – 2018: O. Snoeyenbos-West, SDU, DK  
2015– 2017: S. Kawaichi, SDU, DK

#### *M.Sc. students (1)*

2018: D. Jensen; M.Eng. Thesis: *Producing PHBs from renewable sources: Using excess electricity to produce bioplastics from CO<sub>2</sub>*; Co-supervision with Lars Ottosen/AU. AU/SDU, DK  
2007: Dr. U. Jaekel – M.Sc. lab rotation in anaerobic hydrocarbon degradation; MPI Bremen, DE  
2006: Dr. P. Gomez Pereira – M. Sc. Lab rotation on fluorescence *in situ hybridization* of syntrophic communities; MPI Bremen, DE

#### *B.Sc. students (10)*

2020 (2 Bachelor project students): M. Arreborg and C. Krogh Pedersen, SDU, DK.  
2019 (2 ISA students): M. Arreborg and C. Krogh Pedersen: IABB505 independent study activity on electroactive degradation of plastic polymers. SDU, DK.  
2017 (1 thesis student): J. Bang Rønning; B.Sc. thesis: *Green production of plastics: poly hydroxybutyrate*. SDU, DK  
2017 (1 ISA student): V. Hundtofte Mebus; IABB505 independent study on electromethanogenesis. SDU, DK  
2016 (1 ISA student): R. Pors; IABB505 independent study on electroacetogenesis. SDU, DK  
2012 (1 thesis student): S. Sod; *honors* thesis Chem. Eng. on syntrophic interactions for anaerobic digestion. University of Massachusetts Amherst, MA, USA

2011-2012 (1 ISA student): B.Markovaite on syntrophic interactions; University of Massachusetts Amherst, MA, USA  
2011-2012 (2 student helpers): D.C.Flores and M. Murnane; University of Massachusetts Amherst, MA, USA  
2006 (1 summer research project): B.Adam, fluorescence *in situ* hybridization of syntrophic communities; MPIBremen, DE

## Publications

- Adaptation of a methanogen to Fe<sup>0</sup> corrosion via direct contact**  
Kawaichi, S., Kotoky, R., Fiutowski, J. & Rotaru, A.-E., Dec 2024, In: NPJ Biofilms and Microbiomes. 10, 1, 7 p., 100.  
Research output: Contribution to journal › Journal article › Research › peer-review
- Editorial: Cross-boundary significance of methanogens -the methane moment and beyond**  
Liu, Z., Rotaru, A.-E., Pimentel, M., Zhang, C. J., Rittmann, S. K. M. R. & Ferry, J., Jun 2024, In: Frontiers in Microbiology. 15, 4 p., 1434586.  
Research output: Contribution to journal › Editorial › peer-review
- Electrical Current Disrupts the Electron Transfer in Defined Consortia**  
Yee, M. O., Ottosen, L. D. M. & Rotaru, A.-E., Jan 2024, In: Microbial Biotechnology. 17, 1, 12 p., e14373.  
Research output: Contribution to journal › Journal article › Research › peer-review
- Editorial: Electromicrobiology—from electrons to ecosystems, volume II**  
Risgaard-Petersen, N. & Rotaru, A.-E., 24. Jul 2023, In: Frontiers in Microbiology. 14, 4 p., 1253550.  
Research output: Contribution to journal › Editorial › peer-review
- Editorial: The methane moment - Cross-boundary significance of methanogens: Preface**  
Lyu, Z., Rotaru, A. E., Pimentel, M., Zhang, C. J. & Rittmann, S. K. M. R., 14. Nov 2022, In: Frontiers in Microbiology. 13, 1055494.  
Research output: Contribution to journal › Editorial › peer-review
- An underappreciated DIET for anaerobic petroleum hydrocarbon-degrading microbial communities**  
Aulenta, F., Tucci, M., Cruz Viggi, C., Dolfig, J., Head, I. M. & Rotaru, A.-E., Jan 2021, In: Microbial Biotechnology. 14, 1, p. 2-7  
Research output: Contribution to journal › Journal article › Research › peer-review
- A Win-Loss Interaction on Fe<sup>0</sup> Between Methanogens and Acetogens From a Climate Lake**  
Palacios, P. A., Francis, W. R. & Rotaru, A. E., May 2021, In: Frontiers in Microbiology. 12, 19 p., 638282.  
Research output: Contribution to journal › Journal article › Research › peer-review
- Cultivating electroactive microbes - from field to bench**  
Yee, M. O., Joerg, D., Alfred, S. & Rotaru, A.-E., 24. Apr 2020, In: Nanotechnology. 31, 17, 18 p., 174003.  
Research output: Contribution to journal › Journal article › Research › peer-review
- Extracellular electron uptake in Methanosarcinales is independent of multiheme c-type cytochromes**  
Yee, M. O. & Rotaru, A.-E., 15. Jan 2020, In: Scientific Reports. 10, 1, 372.  
Research output: Contribution to journal › Journal article › Research › peer-review
- Syntrophus conductive pili demonstrate that common hydrogen-donating syntrophs can have a direct electron transfer option**  
Walker, D., Nevin, K., Holmes, D. E., Rotaru, A.-E., Ward, J., Woodard, T., Zhu, J., Ueki, T., Nonnenmann, S., McInerney, M. & Lovley, D. R., Mar 2020, In: The ISME Journal. 14, 3, p. 837–846  
Research output: Contribution to journal › Journal article › Research › peer-review
- Baltic Methanosarcina and Clostridium compete for electrons from metallic iron**  
Palacios Jaramillo, P. A., Snoeyenbos-West, O., Löscher, C., Thamdrup, B. & Rotaru, A.-E., 25. Jan 2019, In: BioRxiv. 530386.  
Research output: Contribution to journal › Journal article › Research
- Baltic Sea methanogens compete with acetogens for electrons from metallic iron**  
Palacios Jaramillo, P. A., Snoeyenbos-West, O., Löscher, C., Thamdrup, B. & Rotaru, A.-E., Dec 2019, In: The ISME Journal. 13, p. 3011-3023  
Research output: Contribution to journal › Journal article › Research › peer-review
- Extracellular electron uptake by two Methanosarcina species**  
Yee, M. O., Snoeyenbos-West, O. L., Thamdrup, B., Ottosen, L. D. M. & Rotaru, A. E., 2. Apr 2019, In: Frontiers in Energy Research. 7, 10 p., 29.  
Research output: Contribution to journal › Journal article › Research › peer-review
- Interspecies interactions mediated by conductive minerals in the sediments of the iron rich meromictic Lake La Cruz, Spain**  
Rotaru, A.-E., Posth, N., Löscher, C., Miracle, M. R., Vincence, E., Cox, R. P., Thompson, J., Poulton, S. W. & Thamdrup, B., 2019, In: Limnetica. 38, 1, p. 21-40 366542.  
Research output: Contribution to journal › Journal article › Research › peer-review

15. **Towards the integrated marine debris observing system**  
Maximenko, N., Corradi, P., Law, K. L., Sebille, E. V., Garaba, S. P., Lampitt, R. S., Galgani, F., Martinez-Vicente, V., Goddijn-Murphy, L., Veiga, J. M., Thompson, R. C., Maes, C., Moller, D., Löscher, C. R., Addamo, A. M., Lamson, M., Centurioni, L. R., Posth, N., Lumpkin, R. & Vinci, M. & 40 others, Martins, A. M., Pieper, C. D., Isobe, A., Hanke, G., Edwards, M., Chubarenko, I. P., Rodriguez, E., Aliani, S., Arias, M., Asner, G. P., Brosich, A., Carlton, J. T., Chao, Y., Cook, A. M., Cundy, A., Galloway, T. S., Giorgetti, A., Goni, G. J., Guichoux, Y., Hardesty, B. D., Holdsworth, N., Lebreton, L., Leslie, H. A., Macadam-Somer, I., Mace, T., Manuel, M., Marsh, R., Martinez, E., Mayor, D., Le Moigne, M., Jack, M. E. M., Mowlem, M. C., Obbard, R. W., Pabortsava, K., Robberson, B., Rotaru, A. E., Spedicato, M. T., Thiel, M., Turra, A. & Wilcox, C., 28. Aug 2019, In: *Frontiers in Marine Science*. 6, 25 p., 447.  
Research output: Contribution to journal › Journal article › Research › peer-review
16. **Conductive particles enable syntrophic acetate oxidation between *Geobacter* and *Methanosarcina* from coastal sediments**  
Rotaru, A.-E., Calabrese, F., Stryhanyuk, H., Musat, F., Shrestha, P. M., Weber, H. S., Snoeyenbos-West, O., Hall, P. O. J., Richnow, H., Musat, N. & Thamdrup, B., May 2018, In: *mBio*. 9, 3, e00226-18.  
Research output: Contribution to journal › Journal article › Research › peer-review
17. **Electron and Proton Flux for Carbon Dioxide Reduction in *Methanosarcina barkeri* During Direct Interspecies Electron Transfer**  
Holmes, D. E., Rotaru, A.-E., Ueki, T., Shrestha, P. M., Ferry, J. & Lovley, D. R., 13. Dec 2018, In: *Frontiers in Microbiology*. 9, p. 1-11 3109.  
Research output: Contribution to journal › Journal article › Research › peer-review
18. **Extracellular electron uptake by two *Methanosarcina* species**  
Yee, M. O., Snoeyenbos-West, O., Thamdrup, B., Ottosen, L. D. M. & Rotaru, A.-E., Nov 2018, In: *BioRxiv*. 29 p., 458091.  
Research output: Contribution to journal › Journal article › Research
19. ***Geobacter* strains expressing poorly conductive pili reveal constraints on direct interspecies electron transfer mechanisms**  
Ueki, T., Nevin, K. P., Rotaru, A.-E., Wang, L. Y., Ward, J., Woodard, T. & Lovley, D. R., 2018, In: *mBio*. 9, 4, p. 1-10 e01273-18.  
Research output: Contribution to journal › Journal article › Research › peer-review
20. **Potential for *Methanosarcina* to contribute to uranium reduction during acetate-promoted groundwater bioremediation**  
Holmes, D. E., Orellana, R., Giloteaux, L., Wang, L. Y., Shrestha, P. M., Williams, K., Lovley, D. R. & Rotaru, A.-E., Oct 2018, In: *Microbial Ecology*. 76, 3, p. 660–667  
Research output: Contribution to journal › Journal article › Research › peer-review
21. **Conductive particles enable syntrophic acetate oxidation between *Geobacter* and *Methanosarcina* from coastal sediments**  
Rotaru, A.-E., Calabrese, F., Stryhanyuk, H., Musat, F., Shrestha, P. M., Weber, H. S., Snoeyenbos-West, O., Hall, P. O. J., Richnow, H., Musat, N. & Thamdrup, B., Nov 2017, In: *BioRxiv*.  
Research output: Contribution to journal › Journal article › Research
22. **Potential for *Methanosarcina* to contribute to uranium reduction during acetate-promoted groundwater bioremediation**  
Holmes, D. E., Orellana, R., Giloteaux, L., Wang, L. Y., Shrestha, P. M., Williams, K., Lovley, D. & Rotaru, A.-E., 2017, In: *BioRxiv*.  
Research output: Contribution to journal › Journal article › Research
23. **Editorial: Wired for life**  
Rotaru, A.-E. & Shrestha, P., 21. Apr 2016, In: *Frontiers in Microbiology*.  
Research output: Contribution to journal › Editorial › peer-review
24. **Link between capacity for current production and syntrophic growth in *Geobacter* species**  
Rotaru, A.-E., Woodard, T., Nevin, K. & Lovley, D., 21. Jul 2015, In: *Frontiers in Microbiology*. 6, JUL, p. 1-8 744.  
Research output: Contribution to journal › Journal article › Research › peer-review
25. **Magnetite Compensates for the Lack of a Pilin-Associated c-Type Cytochrome in Extracellular Electron Exchange**  
Liu, F., Rotaru, A.-E., Shrestha, P., Malvankar, N., Nevin, K. & Lovley, D., Mar 2015, In: *Environmental Microbiology*. 17, 3, p. 648-655  
Research output: Contribution to journal › Journal article › Research › peer-review
26. **Carbon cloth stimulates direct interspecies electron transfer in syntrophic co-cultures**  
Chen, S., Rotaru, A.-E., Liu, F., Phillips, J., Woodard, T., Nevin, K. & Lovley, D., Dec 2014, In: *Bioresource Technology*. 173, p. 82-86  
Research output: Contribution to journal › Journal article › Research › peer-review
27. **Constraint-based modeling of carbon fixation and the energetics of electron transfer in *Geobacter metallireducens***  
Feist, A., Nagarajan, H., Rotaru, A.-E., Tremblay, P.-L., Zhang, T., Nevin, K., Lovley, D. & Zengler, K., 24. Apr 2014, In: *PLOS Computational Biology*. 10, 4, p. e1003575 e1003575.  
Research output: Contribution to journal › Journal article › Research › peer-review

28. **Correlation between microbial community and granule conductivity in anaerobic bioreactors for brewery wastewater treatment**  
Shrestha, P., Malvankar, N. S., Werner, J., Franks, A., Rotaru, A.-E., Shrestha, M., Liu, F., Nevin, K., Angenent, L. & Lovley, D., Dec 2014, In: *Bioresource Technology*. 174, p. 306-310  
Research output: Contribution to journal › Journal article › Research › peer-review
29. **Direct interspecies electron transfer between *Geobacter metallireducens* and *Methanosarcina barkeri***  
Rotaru, A.-E., Shrestha, P. M., Liu, F., Markovaite, B., Chen, S., Nevin, K. N. & Lovley, D. R., Aug 2014, In: *Applied and Environmental Microbiology*. 80, 15, p. 4599-4605  
Research output: Contribution to journal › Journal article › Research › peer-review
30. **Plugging in or Going Wireless: Strategies for Interspecies Electron Transfer**  
Shrestha, P. & Rotaru, A.-E., 16. May 2014, In: *Frontiers in Microbiology*. 5, 237.  
Research output: Contribution to journal › Journal article › Research › peer-review
31. **Promoting interspecies electron transfer with biochar**  
Chen, S., Rotaru, A.-E., Shrestha, P. M., Malvankar, N. S., Liu, F., Fan, W., Nevin, K. P. & Lovley, D. R., 21. May 2014, In: *Scientific Reports*. 4, 5019.  
Research output: Contribution to journal › Journal article › Research › peer-review
32. **A new model for electron flow during anaerobic digestion: direct interspecies electron transfer to *Methanosaeta* for the reduction of carbon dioxide to methane**  
Rotaru, A.-E., Shrestha, P. M., Liu, F., Shrestha, M., Shrestha, D., Embree, M., Zengler, K., Wardman, C., Nevin, K. P. & Lovley, D. R., 2013, In: *Energy & Environmental Science*. 7, 1, p. 408-415  
Research output: Contribution to journal › Journal article › Research › peer-review
33. **Characterization and modelling of interspecies electron transfer mechanisms and microbial community dynamics of a syntrophic association**  
Nagarajan, H., Embree, M., Rotaru, A.-E., Shrestha, P. M., Feist, A., Palsson, B. Ø., Lovley, D. R. & Zengler, K., 2013, In: *Nature Communications*. 4, 2809.  
Research output: Contribution to journal › Journal article › Research › peer-review
34. **Interspecies electron transfer via hydrogen and formate rather than direct electrical connections in cocultures of *Pelobacter carbinolicus* and *Geobacter sulfurreducens***  
Rotaru, A.-E., Shrestha, P. M., Liu, F., Ueki, T., Nevin, K., Summers, Z. M. & Lovley, D. R., 2012, In: *Applied and Environmental Microbiology*. 78, 21, p. 7645-7651  
Research output: Contribution to journal › Journal article › Research › peer-review
35. **Microbially supported synthesis of catalytically active bimetallic Pd-Au nanoparticles**  
Hosseinkhani, B., Søjberg, L. S., Rotaru, A.-E., Emtiazi, G., Skrydstrup, T. & Meyer, R. L., 2012, In: *Biotechnology and Bioengineering*. 109, 1, p. 45-52  
Research output: Contribution to journal › Journal article › Research › peer-review
36. **Non-enzymatic palladium recovery on microbial and synthetic surfaces**  
Rotaru, A.-E., Jiang, W., Finster, K., Skrydstrup, T. & Meyer, R. L., 2012, In: *Biotechnology and Bioengineering*. 109, 8, p. 1889-1897  
Research output: Contribution to journal › Journal article › Research › peer-review
37. **Promoting direct interspecies electron transfer with activated carbon**  
Liu, F., Rotaru, A.-E., Shrestha, P. M., Malvankar, N. S., Nevin, K. P. & Lovley, D. R., 2012, In: *Energy & Environmental Science*. 2012, 5, p. 8982-8989  
Research output: Contribution to journal › Journal article › Research › peer-review
38. **Syntrophic growth with direct interspecies electron transfer as the primary mechanism for energy exchange**  
Shrestha, P. M., Rotaru, A.-E., Aklujkar, M., Liu, F., Shrestha, M., Summers, Z. M., Malvankar, N., Flores, D. C. & Lovley, D. R., 2013, In: *Environmental Microbiology Reports*. 5, 6, p. 904-910  
Research output: Contribution to journal › Journal article › Research › peer-review
39. **Transcriptomic and genetic analysis of direct interspecies electron transfer**  
Shrestha, P. M., Rotaru, A.-E., Summers, Z. M., Shrestha, M., Liu, F. & Lovley, D. R., 2013, In: *Applied and Environmental Microbiology*. 79, 7, p. 2397-2404  
Research output: Contribution to journal › Journal article › Research › peer-review
40. **Visualization of candidate division OP3 cocci in limonene-degrading methanogenic cultures**  
Rotaru, A.-E., Schauer, R., Probian, C., Mussmann, M. & Harder, J., 2012, In: *Journal of Microbiology and Biotechnology*. 22, 4, p. 457-461  
Research output: Contribution to journal › Journal article › Research › peer-review
41. **Potential for direct interspecies electron transfer in methanogenic wastewater digester aggregates**  
Morita, M., Malvankar, N. S., Franks, A. E., Summers, Z. M., Giloteaux, L., Rotaru, A. E., Rotaru, A.-E., Rotaru, C. & Lovley, D. R., 2011, In: *mBio*. 2, 4, p. e00159-11  
Research output: Contribution to journal › Journal article › Research › peer-review

42. Formation of palladium(0) nanoparticles at microbial surfaces  
Bunge, M., Søbberg, L. S., Rotaru, A.-E., Gauthier, D., Lindhardt, A. T., Hause, G., Finster, K., Kingshott, P., Skrydstrup, T. & Meyer, R. L., 1. Oct 2010, In: *Biotechnology and Bioengineering*. 107, 2, p. 206-215  
Research output: Contribution to journal › Journal article › Research › peer-review
43. Highly enriched Betaproteobacteria growing anaerobically with p-xylene and nitrate  
Rotaru, A.-E., Probian, C., Wilkes, H. & Harder, J., Mar 2010, In: *FEMS Microbiology Ecology*. 71, 3, p. 460-468  
Research output: Contribution to journal › Journal article › Research › peer-review

## Speaking engagements

1. **Life of Geobacter as a syntroph in artificial and environmental consortia with methanogens (Invited talk, BES28)**  
Rotaru, A.-E. (Speaker)  
20. May 2024  
Activity: Talks and presentations › Conference presentations
2. **The Electrifying Lives of Methane-Producing Archaea (Royal Academy, EliteForsk awardee public talk)**  
Rotaru, A.-E. (Speaker)  
12. Mar 2024  
Activity: Talks and presentations › Conference presentations
3. **Electron cross-feeding between bacteria and archaea (Invited talk, DANEMO)**  
Rotaru, A.-E. (Speaker)  
26. Jan 2024  
Activity: Talks and presentations › Conference presentations
4. **Electric microbial partnerships (Keynote, eBiotech and InterZell)**  
Rotaru, A.-E. (Keynote speaker)  
6. Nov 2023 → 7. Nov 2023  
Activity: Talks and presentations › Conference presentations
5. **Direct conversion of power to fuel: Electromethanogenesis (Keynote, ISMET-8)**  
Rotaru, A.-E. (Keynote speaker)  
22. Sept 2022  
Activity: Talks and presentations › Conference presentations
6. **Interspecies electron transfer by conducting minerals (Invited talk, Microenergy Workshop)**  
Rotaru, A.-E. (Speaker)  
5. Sept 2022 → 9. Sept 2022  
Activity: Talks and presentations › Conference presentations
7. **Electromethanogenesis (Keynote, ICBM-5)**  
Rotaru, A.-E. (Keynote speaker)  
10. May 2022  
Activity: Talks and presentations › Conference presentations
8. **Geoconductors forging partnerships between species involved in seabed methane emissions (Invited talk, KNVM & NVMM Scientific Spring Meeting)**  
Rotaru, A.-E. (Speaker)  
4. Apr 2022 → 6. Apr 2022  
Activity: Talks and presentations › Conference presentations
9. **Geoconductors forging partnerships between species involved in methane emissions (Invited talk, New Topics in Mineralogy)**  
Rotaru, A.-E. (Speaker)  
3. Dec 2021  
Activity: Talks and presentations › Conference presentations
10. **Geoconductors forging partnerships between species involved in seabed methane emissions (Invited talk, Electromicrobiology 2)**  
Rotaru, A.-E. (Speaker)  
3. Nov 2021 → 5. Nov 2021  
Activity: Talks and presentations › Conference presentations
11. **Electroactive methanogens in aquatic environments (Keynote, SAME16, Potsdam, DE)**  
Rotaru, A.-E. (Keynote speaker)  
1. Sept 2019 → 6. Sept 2019  
Activity: Talks and presentations › Conference presentations
12. **Cultivation of electrophiles (Guest lecturer, EMBO Ph.D. summer school in anaerobic microbiology)**  
Rotaru, A.-E. (Lecturer)  
1. Jul 2019 → 5. Jul 2019  
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

13. **Electroactive methanogens (Invited talk, 16th IWA World Conference on Anaerobic Digestion)**  
 Rotaru, A.-E. (Speaker)  
 23. Jun 2019 → 27. Jun 2019  
 Activity: Talks and presentations › Conference presentations
14. **Conductive particles hot-wire syntrophic consortia (Invited Talk, 1st Electromicrobiology conference, Aarhus)**  
 Rotaru, A.-E. (Speaker)  
 21. Mar 2019 → 22. Mar 2019  
 Activity: Talks and presentations › Conference presentations
15. **Time warp: mineral syntrophy as a proxy of the earliest earthly intercellular associations (Keynote, ISMET-NA conference, St. Poul, Minnesota, USA)**  
 Rotaru, A.-E. (Keynote speaker)  
 10. Oct 2018 → 12. Oct 2018  
 Activity: Talks and presentations › Conference presentations
16. **Feasting on Electrons: A Day in the Life of a Methanogen (Invited Talk, Gordon C1-metabolism conference, Maine, USA)**  
 Rotaru, A.-E. (Speaker)  
 29. Jul 2018 → 3. Aug 2018  
 Activity: Talks and presentations › Conference presentations
17. **Feeding on electrons (Invited talk, and workshop; Evolution and Ecology Seminars, University of Wageningen, Netherlands)**  
 Rotaru, A.-E. (Speaker)  
 25. Apr 2018  
 Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
18. **Syntrophic acetate oxidation facilitated by (semi)conductive materials in Baltic Sea sediments (Invited talk, Survival Artists Symposium, Marburg, Germany)**  
 Rotaru, A.-E. (Speaker), Calabrese, F. (Other), Stryhanyuk, H. (Other), Shrestha, P. M. (Other), Weber, H. S. (Other), Snoeyenbos-West, O. (Other), Hall, P. O. J. (Other), Richnow, H. (Other), Musat, N. (Other) & Thamdrup, B. (Other)  
 9. Oct 2017  
 Activity: Talks and presentations › Conference presentations
19. **Syntrophic acetate oxidation mediated by conductive particles in Baltic Sea sediments (Stanford University, Invited talk)**  
 Rotaru, A.-E. (Speaker)  
 2. Aug 2017  
 Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
20. **Syntrophic acetate oxidation mediated by conductive particles in Baltic Sea sediments (USC Dana and Dornsife, Invited talk)**  
 Rotaru, A.-E. (Speaker)  
 1. Aug 2017  
 Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
21. **Syntrophic acetate oxidation between Geobacter and Methanosarcina from the Bothnian Bay facilitated by conductive minerals (Keynote, Redox-Active Minerals in Natural Systems, Manchester, UK)**  
 Rotaru, A.-E. (Keynote speaker), Calabrese, F. (Other), Stryhanyuk, H. (Other), Shrestha, P. M. (Other), Weber, H. S. (Other), Snoeyenbos-West, O. (Other), Hall, P. O. J. (Other), Richnow, H. (Other), Musat, N. (Other) & Thamdrup, B. (Other)  
 20. Jun 2017  
 Activity: Talks and presentations › Conference presentations
22. **Syntrophic acetate oxidation between Geobacter and Methanosarcina from the Bothnian Bay facilitated by conductive minerals (Invited talk, Geomicrobiology Network meeting, Machester UK)**  
 Rotaru, A.-E. (Speaker)  
 20. Apr 2017 → 22. Apr 2017  
 Activity: Talks and presentations › Conference presentations
23. **Direct interspecies electron transfer in anaerobic microorganisms (Keynote, KNVM, Nijmegen, Netherlands)**  
 Rotaru, A.-E. (Keynote speaker)  
 4. Nov 2016  
 Activity: Talks and presentations › Conference presentations
24. **Direct interspecies electron transfer - future perspectives (Radboud University Invited talk)**  
 Rotaru, A.-E. (Speaker)  
 2. Nov 2016  
 Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

25. **Methanogens hungry for electrons (UFZ Leipzig Invited talk)**  
Rotaru, A.-E. (Speaker)  
Jul 2016  
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
26. **Direct interspecies electron transfer in anaerobic microorganisms (Invited Speaker, ASM conference, Boston, USA)**  
Rotaru, A.-E. (Speaker)  
Jun 2016  
Activity: Talks and presentations › Conference presentations
27. **Electric interactions with methanogens (Invited Talk, University of Newcastle upon Tyne)**  
Rotaru, A.-E. (Speaker)  
31. Mar 2016  
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
28. **An electric DIET for methanogens (Invited talk, University of New South Wales, Sydney, Australia)**  
Rotaru, A.-E. (Guest lecturer)  
17. Mar 2016  
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
29. **An electric DIET for methanogens (JAMS conference, Sydney, Australia)**  
Rotaru, A.-E. (Speaker)  
16. Mar 2016  
Activity: Talks and presentations › Conference presentations
30. **A new DIET for methanogens (Invited Talk, ICBM Oldenburg, Germany)**  
Rotaru, A.-E. (Speaker)  
26. Jan 2016  
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
31. **Electric Interspecies Interactions (Invited talk, Departmental Lecture Series, SDU)**  
Rotaru, A.-E. (Speaker)  
18. Dec 2015  
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
32. **Direct interspecies electron transfer in microbial consortia (Keynote, DMS conference, Copenhagen)**  
Rotaru, A.-E. (Keynote speaker)  
9. Nov 2015  
Activity: Talks and presentations › Conference presentations
33. **Wired for life (Invited talk, Seminar Series, University of Aarhus)**  
Rotaru, A.-E. (Speaker)  
28. Feb 2014  
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
34. **Direct interspecies electron transfer (DIET) in methanogenic environments (ISME, Copenhagen)**  
Rotaru, A.-E. (Speaker)  
Aug 2012  
Activity: Talks and presentations › Conference presentations
35. **p-Xylene degradation by denitrifiers (VAAM; Osnabruck)**  
Rotaru, A.-E. (Speaker)  
Apr 2007  
Activity: Talks and presentations › Conference presentations