Contact info

Amelia-Elena Rotaru, PhD
Associate Professor
Department of Biology
Nordic Center for Earth Evolution
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University of Southern Denmark, 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, Amelia-Elena (Recipient), 9. May 2017

MARMIC teaching award
Rotaru, Amelia-Elena (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 flippedlearning; 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 schoolBreathless 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); MPIMarine 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 ResearchSchool 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_2.Co-supervision with Lars Ottosen/AU. AU/SDU, DK
2007:Dr. U. Jaekel – M.Sc. lab rotation in anaerobic hydrocarbon degradation; MPIBremen, 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

1. **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
2. **A Win–Loss Interaction on Fe^0 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
3. **An underappreciated DIET for anaerobic petroleum hydrocarbon-degrading microbial communities**
   Aulenta, F., Tucci, M., Cruz Viggi, C., Dolfing, 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
4. **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
5. **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
6. **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: I S M E Journal. 14, 3, p. 837–846
   Research output: Contribution to journal › Journal article › Research › peer-review
7. **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
8. **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: I S M E Journal. 13, p. 3011-3023
   Research output: Contribution to journal › Journal article › Research › peer-review
9. **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
10. **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
    Research output: Contribution to journal › Journal article › Research › peer-review
11. **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 othersMartins, 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
12. **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

13. **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

14. **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

15. **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

16. **Interspecies interactions mediated by conductive minerals in the sediments of the ferruginous Lake La Cruz, Spain**
Rotaru, A-E., Posth, N. R. E., Löscher, C., Miracle, M. R., Vincence, E., Cox, R. P., Thompson, J., Poulton, S. W. & Thamdrup, B., Jul 2018, In: BioRxiv. 366542.
Research output: Contribution to journal › Journal article › Research

17. **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

18. **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

19. **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

20. **Editorial: Wired for life**
Rotaru, A-E. & Shrestha, P., 21. Apr 2016, In: Frontiers in Microbiology.
Research output: Contribution to journal › Editorial › peer-review

21. **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, 744, p. 1-8
Research output: Contribution to journal › Journal article › Research › peer-review

22. **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

23. **Carbon cloth stimulates direct interspecies electron transfer in syntrophic co-cultures**
Chen, S., Rotaru, A-E., Liu, F., Philips, 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

24. **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
Research output: Contribution to journal › Journal article › Research › peer-review

25. **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

26. **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

27. **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

28. **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

29. **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

30. **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

31. **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

32. **Microbially supported synthesis of catalytically active bimetallic Pd-Au nanoparticles**
Hosseinkhani, B., Søbjerg, L. S., Rotaru, A-E., Emtiazi, G., Skrydstrup, T. & Meyer, R. L., 2012, In: Biotechnology and Bioengineering (Print). 109, 1, p. 45-52
Research output: Contribution to journal › Journal article › Research › peer-review

33. **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 (Print). 109, 8, p. 1889-1897
Research output: Contribution to journal › Journal article › Research › peer-review

34. **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

35. **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

36. **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

37. **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

38. **Geobacter: The Microbe Electric's Physiology, Ecology, and Practical Applications**
Lovley, D. R., Ueki, T., Zhang, T., Malvankar, N. S., Shrestha, P. M., Flanagan, K. A., Aklujkar, M., Butler, J. E., Giloteaux, L., Rotaru, A-E., Holmes, D. E., Franks, A. E., Orellana, R., Risso, C. & Nevin, K. P., 2011, In: Advances in Microbial Physiology. 59, p. 1-100
Research output: Contribution to journal › Journal article › Research › peer-review

39. **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

40. **Formation of palladium(0) nanoparticles at microbial surfaces**
Bunge, M., Søbjerg, 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 (Print). 107, 2, p. 206-215
Research output: Contribution to journal › Journal article › Research › peer-review

41. **Highly enriched Betaproteobacteria growing anaerobically with p-xylene and nitrate**
Rotaru, A-E., Probian, C., Wilkes, H. & Harder, J., Mar 2010, In: F E M S Microbiology Ecology. 71, 3, p. 460-468
Research output: Contribution to journal › Journal article › Research › peer-review

Speaking engagements

1. **Electroactive methanogens in aquatic environments (Keynote, SAME16, Potsdam, DE)**
   Amelia-Elena Rotaru (Guest lecturer)
   1. Sep 2019 → 6. Sep 2019
   Activity: Talks and presentations › Conference presentations
2. **Cultivation of electrophiles (Guest lecturer, EMBO Ph.D. summer school in anaerobic microbiology)**
   Amelia-Elena Rotaru (Lecturer)
   1. Jul 2019 → 5. Jul 2019
   Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
3. **Electroactive methanogens (Invited talk, 16th IWA World Conference on Anaerobic Digestion)**
   Amelia-Elena Rotaru (Speaker)
   23. Jun 2019 → 27. Jun 2019
   Activity: Talks and presentations › Conference presentations
4. **Conductive particles hot-wire syntrophic consortia (Invited Talk, 1st Electromicrobiology conference, Aarhus)**
   Amelia-Elena Rotaru (Speaker)
   21. Mar 2019 → 22. Mar 2019
   Activity: Talks and presentations › Conference presentations
5. **Time warp: mineral syntrophy as a proxy of the earliest earthly intercellular associations (Keynote, ISMET-NA conference, St. Poul, Minnesota, USA)**
   Amelia-Elena Rotaru (Keynote speaker)
   10. Oct 2018 → 12. Oct 2018
   Activity: Talks and presentations › Conference presentations
6. **Feasting on Electrons: A Day in the Life of a Methanogen (Invited Talk, Gordon C1-metabolism conference, Maine, USA)**
   Amelia-Elena Rotaru (Speaker)
   29. Jul 2018 → 3. Aug 2018
   Activity: Talks and presentations › Conference presentations
7. **Feeding on electrons (Invited talk, and workshop; Evolution and Ecology Seminars, University of Wageningen, Netherlands)**
   Amelia-Elena Rotaru (Speaker)
   25. Apr 2018
   Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
8. **Syntrophic acetate oxidation facilitated by (semi)conductive materials in Baltic Sea sediments (Invited talk, Survival Artists Symposium, Marburg, Germany)**
   Amelia-Elena Rotaru (Speaker), Federica Calabrese (Other), Hryhoriy Stryhanyuk (Other), Pravin Malla Shrestha (Other), Hannah Sophia Weber (Other), Oona Snoeyenbos-West (Other), Per O.J. Hall (Other), Hans Richnow (Other), Niculina Musat (Other) & Bo Thamdrup (Other)
   9. Oct 2017
   Activity: Talks and presentations › Conference presentations
9. **Syntrophic acetate oxidation mediated by conductive particles in Baltic Sea sediments (Stanford University, Invited talk)**
   Amelia-Elena Rotaru (Speaker)
   2. Aug 2017
   Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
10. **Syntrophic acetate oxidation mediated by conductive particles in Baltic Sea sediments (USC Dana and Dornsife, Invited talk)**
    Amelia-Elena Rotaru (Speaker)
    1. Aug 2017
    Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
11. **Syntrophic acetate oxidation between Geobacter and Methanosarcina from the Bothnian Bay facilitated by conductive minerals (Keynote, Redox-Active Minerals in Natural Systems, Manchester, UK)**
    Amelia-Elena Rotaru (Keynote speaker), Federica Calabrese (Other), Hryhoriy Stryhanyuk (Other), Pravin Malla Shrestha (Other), Hannah Sophia Weber (Other), Oona Snoeyenbos-West (Other), Per O.J. Hall (Other), Hans Richnow (Other), Niculina Musat (Other) & Bo Thamdrup (Other)
    20. Jun 2017
    Activity: Talks and presentations › Conference presentations
12. **Syntrophic acetate oxidation between Geobacter and Methanosarcina from the Bothnian Bay facilitated by conductive minerals (Invited talk, Geomicrobiology Network meeting, Machester UK)**
    Amelia-Elena Rotaru (Guest lecturer)
    20. Apr 2017 → 22. Apr 2017
    Activity: Talks and presentations › Conference presentations

13. **Direct interspecies electron transfer in anaerobic microorganisms (Keynote, KNVM, Nijmegen, Netherlands)**
Amelia-Elena Rotaru (Keynote speaker)
4. Nov 2016
Activity: Talks and presentations › Conference presentations

14. **Direct interspecies electron transfer - future perspectives (Radboud University Invited talk)**
Amelia-Elena Rotaru (Speaker)
2. Nov 2016
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

15. **Methanogens hungry for electrons (UFZ Leipzig Invited talk)**
Amelia-Elena Rotaru (Speaker)
Jul 2016
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

16. **Direct interspecies electron transfer in anaerobic microorganisms (Invited Speaker, ASM conference, Boston, USA)**
Amelia-Elena Rotaru (Speaker)
Jun 2016
Activity: Talks and presentations › Conference presentations

17. **Electric interactions with methanogens (Invited Talk, University of Newcastle upon Tyne)**
Amelia-Elena Rotaru (Speaker)
31. Mar 2016
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

18. **An electric DIET for methanogens (Invited talk, University of New South Wales, Sydney, Australia)**
Amelia-Elena Rotaru (Guest lecturer)
17. Mar 2016
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

19. **An electric DIET for methanogens (JAMS conference, Sydney, Australia)**
Amelia-Elena Rotaru (Speaker)
16. Mar 2016
Activity: Talks and presentations › Conference presentations

20. **A new DIET for methanogens (Invited Talk, ICBM Oldenburg, Germany)**
Amelia-Elena Rotaru (Speaker)
26. Jan 2016
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

21. **Electric Interspecies Interactions (Invited talk, Departmental Lecture Series, SDU)**
Amelia-Elena Rotaru (Speaker)
18. Dec 2015
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

22. **Direct interspecies electron transfer in microbial consortia (Keynote, DMS conference, Copenhagen)**
Amelia-Elena Rotaru (Keynote speaker)
9. Nov 2015
Activity: Talks and presentations › Conference presentations

23. **Wired for life (Invited talk, Seminar Series, University of Aarhus)**
Amelia-Elena Rotaru (Speaker)
28. Feb 2014
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

24. **Direct interspecies electron transfer (DIET) in methanogenic environments (ISME, Copenhagen)**
Amelia-Elena Rotaru (Speaker)
Aug 2012
Activity: Talks and presentations › Conference presentations

25. **p-Xylene degradation by denitrifiers (VAAM; Osnabruck)**
Amelia-Elena Rotaru (Speaker)
Apr 2007
Activity: Talks and presentations › Conference presentations