

Curriculum Vitae

Name: Anna Liselotte Schnürer

Born: 27th February 1964 in Örebro, Sweden

Civil status: Married, three children (born 1994,1997 and 2002)

Present position:

Professor (100%) at the Department of Molecular Sciences, SLU, Sweden.

Previous positions:

- 1987-88. Research assistant at the Department of Microbiology, SLU.
- 1988-96. PhD-student at the Department of Microbiology, SLU.
- 1996- 2011, Researcher at the Department of Microbiology, SLU.
- 2011- 2020 Lecturer at the Department of Microbiology, SLU
- 2009-2013, Researcher at the Department of Mathematical Sciences and Technology, UMB, Norway (20%)
- 2015 – 2020 Guest Professor Tema M, Linköping University (30%)
- 2020 Professor in Microbial Biotechnology, Department of Molecular Sciences, SLU

University degree:

- Bachelor in Chemistry (1986) at Linköpings University, Sweden.
- Master in Biotechnology (1987) at Uppsala University, Sweden.
- PhD (1996) in Microbiology, SLU, Sweden.

Academic positions:

- Associate Professor in Microbiology (2005) at the Department of Microbiology, SLU
- Extension collaboration specialist in Bioenergy, lecture, (2011) at the Department of Microbiology, SLU
- Appointed Professor in Bioenergy (2012) at the Department of Microbiology, SLU
- Full Professor in Microbial Biotechnology (2020) at the Department of Molecular Sciences, SLU

General description

My overall research interest is environmental biotechnology and the possibility to use anaerobic microbial processes for converting organic residual streams into valuable products, such as energy carriers, chemicals or feed. To achieve this goal, my laboratory

operates different types of anaerobic bioprocesses, with mixed organism consortia or pure organism cultures. Isolation and characterization of new organisms, both bacteria and archaea, is also in focus. Many studies aim at generating basic knowledge to understand connections between microbial ecology and process function, but part of the research also have a more applied character and is often performed in collaboration with the industry. A strong research area is biogas production from different types of substrates. The research here aims to find solutions for optimized gas production with higher yield and improved process stability. Another research area is the digestate and various issues related to its use as fertilizers. Possibilities to link the biogas systems to other energy production systems (hydrogen, ethanol, etc.) or for production of other value products, such as organic acids, or feed, are also area of interest.

The microbial processes used for the production of different products in constructed bioreactors are also found in different natural environments. My knowledge in the field of anaerobic microbiology has therefore led to collaborative research in recent years dealing with, for example, methane emissions from cows and rice fields, linkage between human health and intestinal flora and deep biosphere methane production

Today I lead a research group of approximately 10 people at SLU but work also with other researchers at SLU and at other universities in Sweden, such as Linköping and Uppsala University, and research Institutes (RISE, IVL). I also have a wide international network and collaborations both within and outside of Europe

A significant part of my work also include various extension activities, e.g. collaborations/interactions with different actors outside the university, such as industry, municipalities, schools, branch organizations and farmers. I am also active lecturer at various courses and seminars and act as advisor on various issues related to biogas production.

Pedagogic merits

Education

- Allmän grund kurs i pedagogik (Basic course in pedagogics I). 14-16 Nov, 1989, Swedish University of Agricultural sciences.
- Pedagogisk grundkurs (Basic course in pedagogics II). 4 weeks in 1999, Swedish University of Agricultural Sciences
- Docent kurs (Course for associate professorship). 4 weeks in 2003, Swedish university of Agricultural Sciences.
- Betygs kurs (Course in how to set grades). 3 days in 2008, Swedish University of Agricultural Sciences

Teaching/course planning

Teaching assistant:

Between 1989-1993, corresponding to 10-20% of working time, for basic courses in microbiology (A-level) given at the Department of Microbiology, SLU

Course planning:

- Course in Microbial Environmental Biotechnology (D-level, 30 ECTS), SLU
- Microbiology section (A-level, 3 ECTS) of the course in “Energy systems from a biogeoscience perspective”, at SLU
- Course in Microbiology (A-level, 30 ECTS), SLU
- SLU PhD graduate school in Bioenergy, 2008, SLU
- PhD course in Processing Biomass (3 ECTS) given within the SLU graduate school in bioenergy (2009, 3ECTS), SLU
- Workshops: 1-2 days, in total 6 workshops, 2008-2012, given within the SLU graduate school in bioenergy.
- PhD- reading courses: Microbiology of the biogas process (2009-3 ECTS), Bacterial metabolism (2003, 6 ECTS) and, Biodegradation and bioremediation (2005- 6 ECTS).
- Biogas i det uthålliga samhället (Biogas in the sustainable society) (A-level, 7,5 ECTS), SLU

Course manager:

- Course in Microbiology (A-level, 30 ECTS), SLU (between 2008-2011).
- Microbiology section (A-level, 3 ECTS) of the course in “**Energy systems from a biogeoscience perspective**”, at SLU (between 2002 -2005).
- PhD course in Processing Biomass (3 ETCS; 2009, 2014) given within the SLU graduate school in bioenergy.
- Coordinator: Graduate school in bioenergy (2008-2014).

Educational activities – undergraduate

- 1989-1993. Teaching assistant on laboratory exercises given on basic courses in Microbiology (A-level 7.5 and 15 ETCS), Department of Microbiology, SLU
- 1999-2010. Basic courses in Microbiology (A-level 7.5 and 15 ETCS), Department of Microbiology, SLU. Lectures on basic energy metabolism etc. and supervision of students performing laboratory exercises and literature studies.
- 2000-2005. Microbial Environmental Biotechnology (C-level, 15 ETCS). Department of Microbiology, SLU, Lectures given on basic energy metabolism, anaerobic bacteria and their degradation pathways and the biogas process. Supervision of students performing literature studies and laboratory project works.
- 2004-2012. Technique for treatment of urban waste (15 ETCS), Department of Agricultural Engineering, SLU. Lecture given on the microbiology of the biogas process.

- 1998-1999. Waste biology (7.5 ECTS). Department of Soil Fertility and Plant Nutrition, SLU. Lecture given on the microbiology of the biogas process.
- 2002-2003. Microbial Ecology (15 ECTS). Department of Biology, Södertörn University Collage. Lectures given on the anaerobic degradation of organic pollutants.
- 2002-2003. Teknisk mikrobiologi (7.5 ECTS) Department of Microbiology, KTH. Lectures on the microbiology of the biogas process.
- 2011-2015. Industrial Microbiology (7.5 ETC). Department of Microbiology (SLU). Lectures on the biogas process
- 2004-2009. Water treatment. Department of Energy and Technology, SLU. Lecture given on the microbiology of the biogas process
- 2004, KTH, Renewable Fuel Production Processes. Lecture on the biogas process
- 2002-2020. Energy systems from a biogeoscience perspective, SLU (15ECTS). Lecture and exercise on concerning the biogas process and its microbiology and operation.
- 2008-2010. Microbial Ecology, Department of Microbiology, SLU. Lecture on Syntrophic Interactions.
- 2008-2020. Contaminated soil-risk assessment and remediation, Department of Molecular Sciences, SLU. Lectures on metabolism and on anaerobic degradation of organic contaminants.
- 2010-2020. On-site wastewater systems, nutrient recovery and sewage sludge treatment (5-7.5 ECTS). Department of Energy and Technology, SLU. Lecture on the biogas process and application
- 2010-2017. Molecular Biotechnology for Renewable Energy (15 ECTS Uppsala University). Lecture on the biogas process and its microbiology
- 2016-2020. The biogas process (6 ECTS, Linköping University). Lecture on basic anaerobic microbiology and the biogas process and its microbiology
- 2018-2020. Waste management (5 ECTS), SLU. Lecture on the biogas process
- 2019-2020. Environmental Bioprocess Technology, KTH. Lecture on the biogas process

Continuing education

- Invited lecturer and course organizer of one-day courses for staff at two municipal waste water treatment plants (Himmerfjärdsverket and Henriksdal, 2003) and agricultural school (Sötåsen, 2007) The courses consisted of lectures and theoretical exercises.
- Invited lecturer and involved in course planning for different courses given by Avfall Sverige for staff at biogas plants, county boards, regional councils etc; Grundkurs biogasteknik, Driftoptimering av biogas processen, Biogasprocessens mikrobiologi. In total 20 courses between 2005-2020.
- One-week course for teachers at highschool (Bioteknik veckan, "Nationellt resurs centrum for biologi och bioteknik", 2007). Engaged in planning, teaching and

development of a laboratory excises; Schnürer, A 2008. *Biogas reactor i miniformat. Efter Linné. Linnélektioner – idéhäfte 6 (20 pages).*

- Biogas lecture at Gasakademin summer school (2014-2018) for PhD students and staff from industry. Organized by Energiforsk
- Biogas courses/workshop for farmers
 - ✓ 2009. Course organizer and teacher for a course arranged within the EU-project Agrobiogas.
 - ✓ 2010. Course arranged together with Biogas Öst, JTI, LFR, Örebro regional development council, Landet Lär, Energy office of Mälardalen, Örebro County board and Örebro and Lekebergs municipality. I was engaged in planning and was invited as lecturer.
 - ✓ 2010. Effektiv biogas production (Efficient biogas production). Two-day workshop for farmers and people working in the biogas field. The workshop was arranged by IQCP. I was engaged as moderator for the workshop and also as a lecturer.
 - ✓ 2012. Engaged as a lecturer during a one-day course arranged by Biogas Öst.
 - ✓ 2013 and 2014. Engaged as a lecturer during two two-day workshops arranged by Hushållningssällskapet within the project “Utvärdering av biogasanläggningar på gårdsnivå)
 - ✓ 2016 One day work shop at SLU. Responsible for planning.
 - ✓ 2016. Corse organizer and lecturer for one day course in biogas process management for farmers, Trollhättan Sweden). Arranged in collaboration with VGR and Innovatum.
 - ✓ 2018. Engaged as a lecturer on a biogas course (2 days) for energy advisers for farm scale biogas plants. The course was organized by the Swedish Board of Agriculture.
 - ✓ 2020. One day work shop for farmers – science communication in the field of biogas

Experience of supervision

M Sc projects: In total 31 students between 1998-2020

PhD-education: Main supervisor (finished)

- Karin Eliasson, Department of Molecular Sciences, SLU (PhD degree 2019)
- Tong Liu, Department of Molecular Sciences, SLU (PhD degree 2019)
- Kajsa Risberg, Department of Microbiology, SLU (PhD degree 2015)
- Li Sun, Department of Microbiology, SLU (PhD degree 2015)
- Jan Moestedt, Department of Microbiology, SLU (PhD degree 2015)
- Maria Westerholm, Department of Microbiology, SLU (PhD degree 2012)
- Lotta Léven, Department of Microbiology, SLU (PhD degree 2007)
- Karin Nyberg, Department of Microbiology, SLU (PhD degree in 2006)

PhD-education: Main supervisor (ongoing):

- Abhijeet Singh (since 2016), Department of Molecular Sciences, SLU
- He sun (since 2017), Department of Molecular Sciences, SLU
- Ebba Perman (From January 2020), Department of Molecular Sciences, SLU
- George Cheng (From January 2020), Department of Molecular Sciences, SLU
- Andrea Carranza Muñoz (From November 2020), Department of Molecular Sciences, SLU

PhD-education Co-supervisor (finished)

- Lin Solli, Department for Chemistry, Biotechnology and Mathematics, UMB, Norway (PhD degree 2018)
- Rebecca Danielsson, Department for Animal nutrition and Management, SLU (PhD degree 2016)
- Lillemor Gustafsson, Department of Natural Sciences, Örebro University (PhD degree 2005)

PhD-education Co-supervisor (ongoing)

- Jonas Olsson, Department for Molecular Sciences, SLU (from February 2017)
- Jia Hu, Department of Plant Biology, SLU (from September 2018)
- Aprajita Singh, Department of Animal Nutrition and Management, SLU (from Nov 2018)
- Florian Gabler, Department of Energy and Technology, SLU (from October 2020)

Supervision of Postdocs

Tong Liu (2019-), Jan Moestedt (2016-2019). Oskar Karlsson-Lindsjö (2017-2018), Fabiana Paula (autumn 2016), Maria Westerholm (2012-2014, 2016) Lotta Leven (2007-2012); Bettina Müller (2009-2013); Xinmei Feng; (2011-2012); Ewa Lie (2010-2012).

From 2017-2020: Sepher Shakeri Yekta (LIU) (mobility grant from Formas to visit my lab.)

Other educational activities

- Performing experiments with children (8-10 years old) in primary school (Malmas skolan) during 5 occasions in the period 2001-2009
- 2006. Appearance in TV educational material for children age 10-13 produced by UR (www.ur.se). The program, Alice i Energilandet (Alice in Energy land)
- Kliv på ekorrhjulet. June 2012. Invited as a biogas expert to talk to the public while taking a tour in the carousels. Arranged by Antonia Ax:Son Miljö och Utveckling
- En hållbar resa för en hållbar produkt. Seminar and demonstration for politicians in the Mälars region in Sweden. Arranged by Biogas Öst. 2013
- 2014-2017. Together with Uppsala municipality engaged in one-day event about climate and energy for high-school students
- 2015 Lectures and exhibition for children (10 years) about biogas and food waste during a 2 day event at Skansen.
- 2012, 2014, 2017 Lectures at Thematic days in biological recycling of waste organized by The Swedish Waste Association

- Participated in production of educational material, interactive webpage (<http://larare.smartmedmat.se>) for teachers at elementary school.
- Sci fest (2020). 2 days science exhibition in Uppsala for school children and the public. Joint activity with Uppsala Vatten.

Financial support:

Research councils

- MISTRA. Degradation of pesticides during anaerobic treatment of food residues. 640 000 SEK/1999, 785 000 SEK/2000. Main applicant.
- SJFR. Production of a high ammonium level digestate. 626 200 SEK/2001. Main applicant.
- Formas. Production of a high ammonium level digestate. 702 000 SEK/2002, 845 000 SEK/2003. Main applicant.
- SJFR. Flame retardants and dioxine-like compounds- fate during anaerobic degradation of waste. 40 000 SEK /year 2001-2003. Total budget 370 000 SEK/year. Co-applicant.
- Formas. Anaerobic digestates as fertilizing agents-optimisation of anaerobic phenol degradation in biogas processes. 662 000 SEK/year, 2007-2008. Main applicant
- Formas (25%) / Energimyndigheten (25%) /Tekniska Verken AB (50%). Biogas från dränk. 1 milj SEK/year (2010-2014). Main applicant
- Swedish research council (VR), Optimized biogas production from straw. 70 000 SEK/2010 Main applicant
- Norwegian research council (80%)/Industry (20%). Biomass to Biogas. 250 000 NOK/year, 2009-2012. Total budget 20 milj NOK. Co-applicant
- Norwegian research council (50%) / Industry (50%). Robust processes for biogas production using manure and by-products from agriculture and agro-industry. 150 000 NOK, 2010-2013 Total budget 11.7 milj NOK . Co-applicant
- Norwegian research council (50%) / Industry (50%). Biogas Reactor Technology for Norwegian Agriculture. 250 000 NOK/year, 2011-2013. Total budget 17,3 milj NOK. Co-applicant
- Formas. Styrning av mikrobiella populationer mot en effektiv biogas produktion. 3 304 000 (2013–2014). Main applicant
- VR/energimyndigheten. Syntrofa acetatoxiderande bakterier – en ny och lovande kandidat för effektiv vätgasproduktion. 3 400 000 (2013–2016). Main applicant
- Formas. Dekrypting of dialogues between SUSIBA-2 rice and methanogen benefits the global environment. 2015–2017. 5.8 milj. (Co-applicant)
- Formas. Food waste into farmed fish – development of a novel two stage process. 2016-2020 (main applicant). Total budget 9,72 milj SEK.
- Formas. Acetogenic cell factories for biobased chemicals (2019-2021). Total budget 2.9 milj SEK

EU

- EU-project AgroBiogas . 186 000 Euro, 2008-2010 (total budget 2.1 milj Euro). Co-applicant
- ERA-Net. Small-scale but efficient biogas production (Main applicant, coordinator). 5.4 milj SEK (2013-2015)
- Intereg. Biogas 2020. (co applicant) 1.2 milj SEK (2015-2018) Total funding 4 730 951 EUR

Others

- Knut och Alice Wallenberg Stiftelse, Stipendium för yngre kvinnliga forskare. 100 000 SEK/1998, 100 000 SEK/1999. Main applicant.
- Carl Tryggers Stiftelse. Fenoler i organiska gödningsmedel – nedbrytning i marken. 163 043 SEK /2004. Main applicant.
- SLU (Faculty research theme “Biological waste in circulation between urban and rural areas). Microbial degradation of organic pollutants. 400 000 SEK/year, 2001-2005. Externally evaluated. Principal applicant.
- SLU (SLU Research Programme “Organic waste – resource or risk in sustainable agriculture). Organic fertilizers – effect on soil microorganisms. 780 000 SEK, 2002-2005. Internally evaluated. Principal applicant.
- NL-faculty (50%) /Industry (50%). Research program MicrodrivE. approx 2 milj SEK/year . Total budget 8 miljon SEK/year (2007-2010) and 10 miljon SEK/year (2010-2013). Co-applicant.
- Avfall Sverige/SGC/Industry. Mikrobiologisk handbok. 128 000 SEK (2008-2009). Total budget 256 000 SEK. Main applicant
- SLF (The Swedish Farmers' Foundation for Agricultural Research) /Formas . Överlevnad av betcystnematiden ”Beet necrotic yellow vein”-virus med dess vektor Polymyxa betae under biogasprocessen. 670 000 SEK/2010. Co-applicant.
- SLF/Swedish board of Agriculture/county administration of Västra Götaland. Gödselrötning vid Sötåsens gårdsanläggning. 200 000 SEK, 2010-2012. Total budget of 3.6 milj SEK. Co-applicant.
- Swedish Energy Agency. Biogas in cooperation with China. 1,2 milj SEK/year, 2010-2012. Total budget 5 milj SEK. Co-applicant.
- Avfall Sverige/SGC/Industry. Handbok utrotningsförsök. Total budget 218 400 SEK (2010-2011). 92 000 SEK to the Department of Microbiology. Co-applicant.
- SLF/Formas. Quality and function of anaerobic digestion residue - impact of process temperature and type of input material 435 000 SEK (2009-2011). Co-applicant.
- Energimyndigheten/SVU/JTI/Cambi/Växjö kommun/SLU. 1.5 milj Utvärdering av termisk förhydrolys vid Sundets biogas anläggning. (2014-2015) Main applicant
- VGR/SLU. Fossilfritt lantbruk. 6 milj SEK 2014-2017. (Main applicant, part project in a larger agreement).
- Uppsala Bio X/SLU. Biogas monitoring kit. 2.5 milj SEK (2011-2014)
- VGR miljönämnd. Microbial surveillance of biogas plants. 1.2 milj SEK (2015-2018). Main applicant
- Avfall Sverige. Termofil eller mesofil rötning av källsorterat matavfall. 50 000 SEK (2015). Main applicant
- Avfall Sverige: Mikrobiologisk handbok för biogasanläggningar -uppdatering. 485 000 SEK (2015)

- Stand Up for Energy, a collaboration project between SLU, KTH, Uppsala University and Luleå Technical University (www.standupforenergy.se). 5.1 milj SEK 2010-2018.
- Swedish Energy Agency. Microbial Surveillance of biogas plants. 6.4 milj SEK (2015-2018) Main applicant
- Swedish Energy Agency, 760 000 (2015.2017). Halmpellets och halmbriketter som stabiliserande substrat vid biogasanläggningar (co-applicant).
- SLF. Finding key parameters for improved forage utilization and lowered methane emissions in dairy cows. 2.4 milj (2017-2020). Co- applicant
- Private Investor. Reducing methane emissions from rice, 3 milj (2018-2021).
- Energiforsk/Energy Agency/Industry/IVL/SLU/Linköping University/ RISE. Optimal temperature in dry anaerobic digestion of municipal solid waste. (2018) Total budget 1.2 milj kr (co applicant).
- Kamprad Stiftelse . Unikt reaktor koncept för ökad biogasproduktion från lignocellulosa - Microb Adjusted, Design (MAD), 2.4 milj kr (co-applicant)

Other scientific merits

- Member of the expert panel for strategic energy research 2010, 2017, 2018, Swedish Research Council (VR).
- Reviewer of research applications to the Swedish Energy Agency call on fundamental Energy Research, 2019
- Assessments foreign research applications:
 - ✓ The Portuguese Foundation for Science and Technology (2012)
 - ✓ European research council – ERC evaluation (2012)
 - ✓ Austrian Sciences Fund, FWF (2013, 2015, 2020)
 - ✓ Hungarian Scientific Research Fund (2013, 2014)
 - ✓ Fonds National de la Recherche Luxembourg (2014)
 - ✓ Environment and Conservation Fund Ordinance of Hong Kong (2015)
 - ✓ KU Leuven Research Council, Belgium (2016)
 - ✓ Research council of Norway (2018)
 - ✓ BBSCR, England (2019)
- Awards: BioX award 2011
- Expert for evaluation of research assistant position in Environmental Technology at Mälardalen University (2009)
- External reviewer for a dissertation manuscript from the University of Eastern Finland (2011). Thesis title: Treatment of hygiene of farm slurry and food waste
- 2016 External evaluator for a researcher position at DTU Denmark
- 2017. External evaluator of an application for full professorship at Vienna University; Austria

- 2018. External evaluator of an application for full professorship at Aarhus University, Denmark
- 2018-2020. Mentor for Magdalena Calusinska in the FNR Project "CLOMICS" (C17/SR/11687962) at The Luxembourg Institute of Science and Technology

Reference assignment:

- ✓ 2000-2004. Växtkraft project (VFAB miljö), municipality of Västerås, Sweden. The role of the referent group is to support the planning of the start of a biogas plant for treatment of organic waste.
- ✓ 2004. Effektivitet av fordonsdesinfektion för transport av biogödsel (Desinfection of vehicles used for transportation of anaerobic digestion residues. My role in the referent group was to evaluate to project set up and to discuss results. The project has been published as a report by The Swedish Waste Management Association (Avfall Sverige) (2005:04).
- ✓ 2008 – 2012. Biogasprojektet Lövsta Gård (SLU – project that concerns building of a farm based biogas plant).
- ✓ 2010 – 2012. Pre-treatment of organic waste for improved anaerobic digestion focusing on electroporation (Founded by Swedish Research Council, applied by by Division of Waste Science and Technology, Luleå University and Annox Kaldness).
- ✓ 2017 Luftning a biogödsel för reducering av växthusgasemissioner (project lead by Tekniska Verken AB and published as a report by The Swedish Waste Management Association (Avfall Sverige)
- ✓ 2018. Framtidens återvinningsprocesser för matavfall. The project summarized and evaluated different possible routes for conversion of food waste to high value products, other than biogas. RISE coordinating.

External examiner for doctoral degree:

- Pamela Ryan, Department of Microbiology, National University of Ireland , Galway (2008). Thesis title: The Ecology, Metabolism and Role of Homoacetogens in High Rate Anaerobic digesters.
- Ciara Keating, Department of Microbiology, National University of Ireland , Galway (2015). Thesis title: Hydrolysis, methanogenesis and bioprocess performance during low-temperature anaerobic digestion of dilute wastewaters
- Wenche Bergland. Faculty of Technology (2015). Högskolan i Telemark, Norway. Anaerobic digestion in sludge bed reactors
- Freya Mosbaek, Department of Chemistry and Bioscience of Aalborg University, Aalborg (2016). Microbial community composition in manure-based biogas plants: Identification and insight into microbial ecology
- Han Wang, Technical University of Denmark. (2016). Department of Environmental Engineering. Optimization of biomethanation focusing on high ammonia loaded processes

- Rasmus H. Kirkegaard, Aalborg University; Denmark (2017). Department of Chemistry and Bioscience of Aalborg University. Novel microorganisms and their function in anaerobic digesters.
- Kine Svensson, NMBU, Norway (2018). Improving food waste anaerobic digestion: effects of digestate recirculation, post-treatment and methane-methane serial digestion.
- Laura Agneessens (2018). Power of the Small, Department of Engineering, Aarhus University Aarhus.
- Jorge E. Gonzalez Londoño (2019). Characterization of Fast Anaerobic Digestion in a Novel Reactor Design with Immobilized Biofilms, DTU, Denmark
- Rico Luco (2019). Molecular microbial ecology of anaerobic digestion in laboratory – and full scale biogas reactors. University of Leipzig, Germany
- Johanna Klang (2020). Impact of management measures on the biogas microbiome on the example of feedstock changes. Technical University, Berlin Germany

Member of evaluation committee for doctoral thesis:

- Josefine Elving, SLU (2009). Thesis title: Pathogen Inactivation and regrowth in organic waste during biological treatment.
- Annica Nordin, SLU (2010). Thesis title: Ammonia Sanitation of human excreta.
- Lars Hedström, KTH (2010). Thesis title: Fuel cells and Biogas.
- Mimmi Magnusson, KTH (2012). Thesis title: Energy systems studies of biogas: generation aspects of renewable vehicle fuels in transportation systems
- Emma Kreuger, Lunds Universitet (2012). The potential for industrial Hemp for Biogas production.
- Devanita Ghosh, Linköping University (2016). In grey and brown aquifers in Bengal delta plains.
- Monica Ricão Canelhas (2019). Life strategies for substrate assimilation by freshwater bacterioplankton, Uppsala University 2019.

Invited speaker

- 2012 ISME 14, Copenhagen Denmark. Title: Managing microbial communities in the biogas process
- 2014. Novel Anaerobes, Wageningen. The Netherlands. Title: Syntrophic acetate oxidizing bacteria – who are they?
- 2014. Biogas Science. Vienna, Austria. Title: Links between operation and microbial community structure in biogas processes
- 2015 ISAM 9. Portoroz, Slovenia. Title: Ammonia inhibition during biogas production – dynamics in the microbial community.
- 2016 Biogas Science. Szeged, Hungary. Title: Syntrophic acetate oxidising bacteria - who, when and where?
- 2017. ICBM, Wageningen The Netherlands. Title: Biogas production at extreme conditions

- 2017. Microbial Society Focus meeting “Microbial Resources for Agricultural and Food Security”. Belfast. Title: Microbial management for optimised biogas production from organic wastes
- 2019. AD network research colloquium, Manchester, England. Substrate directed management for optimized biogas process performance.
- 2019. AD16 Delft, Belgium. The biogas microbiome- the know and the unknown
- 2019. ISAM 11. Syntrophs- small but powerfull (conference cancelled)

Others

- Group leader of the research group at the Department of Microbiology consisting of 6-10 people (since dissertation 1996 successively “built” this group). Since 2011 responsible for the coordination of the SLU Biogas Center
- Between 2007-2014, coordinator for the biogas research within the SLU NL-faculty research program MicroDrivE and since 2010 part of the program management group
- Since 2010 member of the SLU, NL faculty committee for external cooperation
- Coordinator for research concerning anaerobic digestion within the SLUs’ thematic research programs “Biological waste in circulation between urban and rural areas – Biology and flow of energy and material“(1996-1999) and “Organic waste – Resource or Risk” (2000-2004).
- In 2006-2007, Editor for “Nytt om Biogas”, a journal for members of the Swedish Biogas Association.
- Between 2000 and 2002, elected member in the working committee of SLUs’ research program “Organic waste – Resource or Risk”.
- Member of Biogas Öst steering group 2010-2013, 2015-2018
- Scientific senior expert in BRC (2015- , Biogas Research Center).
- Organisation of international Conference- 2014, ICBM in Uppsala, Sweden
- Organisation of the international Conference Biogas Science (planned for 2020 and moved to 2022)

Maternal leave/ Effective time of research

Maternity leave for three children born 940919, 970129 and 020724. Between 1994 –2004 in total 47 months. Time of research after PhD-exam corresponds to approx. 21 year. Difference between total time and effective time corresponds to parental and sick leave.