

Curriculum vitae

Professor Jenny Emnéus (JE), born 1961



CONTACT DETAILS

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PERSONAL DETAILS

Date of Birth: 1961-08-09
Place of Birth: Lund, Sweden
Citizenship: Swedish
Marital status: Single. Two children (Born 1996 and 2000)
CPR number: 090861-2000

ACADEMIC DEGREES AND POSITIONS

Degrees:

1999: Associate Professor (Docent), Dept. Analytical Chemistry, Lund University (LU), Sweden
1992: Ph.D., Thesis title: "The Developments in Determining Starch in Flow Analysis with Immobilized Enzyme Reactors". Dept. Analytical Chemistry, LU, Sweden. Supervisor: Prof. Lo Gorton. Faculty opponent: Dennis C. Johnson, Iowa State University, USA.
1985: B.Sc. Dept. Analytical Chemistry, LU, Sweden

Positions:

2007-present: Professor MSO and Head of the Bioanalytics group, DTU Nanotech, DK.
2010-present: Head of the strategic research field Lab-on-a-Chip systems together with Prof. Henrik Bruus, DTU Nanotech, DK.
2007-2010: Head of the Biomedical Microsystems Section (BIOMICS), DTU Nanotech, DK.
1999-2007: Lecturer, Dept. Analytical Chemistry, LU, Sweden.
2000: Maternity leave: 7 months with my son Måns (Born October 15, 2000).
1993-1999: Assistant Professor, Dept. Analytical Chemistry, LU, Sweden.

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1996: Maternity leave: 6 months with my daughter Johanna (Born February 10, 1996).
1993-1994: Postdoc (7 months) with Professor Hubertus Irth, Division of Analytical Chemistry, Leiden/Amsterdam, Centre of Drug Research, Leiden, the Netherlands.

KEY RESEARCH TOPICS

1. Development of micro- and nanosensing tools in general for bioanalytical chemistry and bioelectrochemistry applications, based on microfluidic systems and 2D/3D micro- and nanoelectrode structures.
 2. Integrated microfluidic- and sensor array systems for development of bioassays and biosensors based on immobilised enzymes, antibodies, cells or tissues for real-time dynamic monitoring of intra and extracellular cellular events to gain insight into biological processes at cell level.
 3. Bioelectrochemistry and bioanalytical chemistry application areas:
 - a. Microfluidic cell and tissue culture and analysis systems for basic stem cell research relevant for neurodegenerative and metabolic disorders.
 - b. Enzyme based biofuel cell arrays for implantable batteries
 - c. Biomimetic membrane arrays systems (reconstituted proteins in artificial bilipid membranes) for high throughput drug screening of drugs.
 - d. Microfluidic chip as a diagnostic tool for e.g. tuberculosis
 - e. Enzyme based bioelectronic tongue systems combined with multivariate data analysis/pattern recognition methods used for environmental control and for correlation to toxicity.
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PROJECTS and FUNDING

Projects and Funding at Lund University

During my academic career in Sweden, my research between 1999–2007 was financed by the Swedish Research Council (VR), Crafoordska Stiftelsen, Naturvetenskapliga Forskningsrådet (NFR), Stiftelsen för Miljöstrategisk Forskning (MISTRA), Skogs- och Jordbrukets Forskningsråd (SJFR), Naturvårdsverket (NVV), Svenska institutet (SI) and Forskningsrådsnämnden (FRN).

EU-projects

1. 1997-2000: **Coordinator** for the **FP4** EC project "Integrated Immuno Extraction Sampling and Portable Biosensor Prototype for In-Field Monitoring" (INExSPORT), Contract No.ENV4-CT97-0476. Total funding LU: **224800 €**.
2. 1998-2001: **Coordinator** of the **FP4** EC-INCO project "Multichannel Electrochemical Biosensors For Rapid Food Safety Monitoring ", Contract No. MEBFOOD-IC15-CT98-0910. Total funding LU: **56000 €**
3. 1998-2001: **Coordinator** of the **FP4** EC-INCO-Copernicus project "Biological Tools for a Sustainable Water Management. BIOTOOLS- Contract No. IC15-CT98-0138. Total funding LU: **50000 €**

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4. 1998-2001: **Partner** of the **FP4** EC-INCO-Copernicus project "Flow Injection Methods of Analysis for Improvement the Quality Control of Drinking Water. Contract No. IC15-CT98-0119. Total funding LU: **15000 €**.
5. 2000-2003: **Co-coordinator** together with T. Ruzgas of the **FP5** EC project within the Cell Factory "Intelligent signal processing of biosensor arrays for characterisation and pattern recognition of waste waters: aiming towards alarm systems (INTELLISENS)". Contract No. QLRT-1999-31481. Coordinator: Assoc. Prof. Tautgirdas Ruzgas, LU, Sweden. Total funding LU: **202143 €**.
6. 2000-2002: **Coordinator** of the **FP5** EC INTAS project "Biosensor feed-back control of wastewater purification: photooxidation followed by biological degradation using highly active strains of surfactant degrading bacteria (INTAS-BIOFEED EU Contract No. 99-0995)". Total funding LU: **9000 €**.
7. 2000-2003: **Partner** of the **FP5** EC INCO project "Biosensor feed-back control of wastewater purification: photooxidation followed by biological degradation using highly active strains of surfactant degrading bacteria (INCO-BIOFEED)". Contract No. ICA2-1999-10017. Coordinator: Magrethe Winther-Nielsen, DHI, Denmark. Total funding LU: **104024 €**
8. 2002-2004: **Partner** of the **FP5** EC project under the Leonardo Da Vinci training project. Contract No. 2002-RO/02/B/F141004. Coordinator: Andrei Danet, Univ. Bucharest, Romania. Total Funding LU: **13532 €**
9. 2004-2008: **Partner** of the EC **FP6** European Network of Excellence Bringing Nanotechnologies to Life (Nano2Life). Contract No. NMP4-CT-2003-500057. Coordinator Patrick Boisseau, CEA, France. Funding LU: **154000 €**. Website: <http://www.nano2life.org/content.php?id=36>
10. 2005-2008: **Co-coordinator** of **FP6** EU Marie-Curie Early Stage Training Site Bioanalytical Electrochemistry and Bionanotechnology, "BIONEL". Contract No. MEST-CT-2004-514743). Coordinator Prof. Lo Gorton, LU, Sweden. Emnéus was supervisor for three of the five financed PhD students in BIONEL: Funding for Emnéus approx. **600.000 €**.

Projects and Funding at DTU Nanotech (2007-2012)

EU projects

- 2008-2012: **Coordinator** of the **FP7 EU NMP project**: "Exploring Cellular Dynamics at Nanoscale (EXCELL)". Contract No. NMP-SL-214706. 10 partners. Total project funding: 3.780.750 €. Funding for Nanotech: **785.000 €**. Website: www.excell.nu.
- 2010-2011: **Partner** of the **Interreg IVA micro project**: "Öresunds Forum för Innovation inom Nano-, Bio- och Medicinsk Teknologi (FinNBMT)". Partner with Tautgirdas Ruzgas, Malmö Univ., Sweden. Total project funding 25.000 €. Funding for Nanotech: **12500 €**.
- 2012-2014: **Coordinator** (*still under contract negotiation on March 12th 2012*) of the **FP7-Health-2012-Innovation 2 project**: "A new nanotechnology-based paradigm for engineering vascularised liver tissue for transplantation (NanoBio4Trans)". Project No. 304842. Total project funding: **6 million €**. Funding for DTU Nanotech: 1.7 million €.

Danish funding sources:

- 2007: **START-EXCELL** (sagsnr: 274-07-0312). Funding: **88830 DKK**

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2009-2010 **H. C. Ørsteds postdoc**: Arto Heiskanen (1 year)

2011-2013: **Lundbeck fonden (Postdoc)**. Vortj.nr R69-A6408: “Real-time Monitoring of Pathogenesis of Parkinson’s Disease – Application for Drug Discovery”. Applicant: Dr. Arto Heiskanen. Duration: 2012-01-01 to 2013-12-31. Total funding for 2 years: **1.5 million DKK**.

2012- 2014: **FNU project**: “Microfluidic Monitoring of Programmed Cell Death in Living Plant Tissue”. Duration: 2012-01-01 to 2014-12-31. Main applicant: Dr. Christine Finney (DTU Systems Biology). Total Project Funding: 4.8 million DKK. Funding for Nanotech: **1.95 million DKK**.

2011-2012: **EUopSTART-BIO4TRANS (NanoBio4Trans)** with Anders Bjerrum (Project support, DTU Nanotech): 2011-09-01 to 2012-01-15. Total funding Nanotech: **220.000 DKK**.

Funding for PhD students:

1. **3D electrodes for enzyme based biofuel cell arrays for implantable batteries** – DTU Nanotech stipendium with Nanoprobes group (Anja Boisen): Student Miss Letizia Amato. 1.5 years to go
2. **Biomimetic membrane sensor arrays systems for high throughput drug screening** – Funding 1/3 each from DTU Nanotech, Aquaporin, and C.O.N.T research school: Student Mrs Agnieszka Mech-Doros. 2 years to go
3. **Development of safer non-viral gene transfection vectors** – Funding 2/3 from DTU Nanotech and 1/3 from Thomas L. Andresen: Student Miss Claudia Caviglia. 2 years to go
4. **Real-time monitoring of stem cell differentiation in brain tissue using microfluidic on-line culture systems** – DTU Nanotech stipendium: Student Mrs Fozia Shah. 2.5 years to go
5. **Microfluidic system for activation and measurement of antigen specific cell mediate immune response** – Funding 2/3 from DTU VET (Greger Jungersen, main supervisor) and 1/3 from DTU Nanotech: Student Miss Sofie Folk Bruun. 3 years to go.

SUPERVISION OF PHD STUDENTS

Lund University 1994-2009

Main supervisor of PhD students at LU (Length of PhD studies: approx. 4.5-5 years)

1. Dr. Catalin Nistor. Thesis title: “Development and Application of Enzyme- and Antibody-based Assays with Emphasis on Selectivity, Sensitivity, and Stability”. Faculty opponent: Prof. Hubertus Irth, Free University of Amsterdam, The Netherlands. Start 1998-04-24: **PhD 2002-09-05**.
2. Dr. Richard Davidsson. Thesis title: “Microfluidic Biosensing Systems Based on Enzymes, Antibodies and Cells”. Faculty Opponent: Prof. Jaromir Ruzicka, Univ. of Washington, USA. Start 1999-01-26: **PhD 2004-02-28**.
3. Dr. Madalina Tudorache. Thesis title: “Immuno-Affinity Interactions in Sample Preparation and Analysis”. Faculty opponent: Prof. Marie-Claire Hennion, École Supérieure de Physique et Chimie de Paris (ESPCI), France. Start 2000-10-02: **PhD 2005-09-02**.

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4. Dr. Eva Dock. Thesis title: "Development of a Bioelectronic Tongue – Application for Waste water Analysis". Supervised with Assoc. Prof. Tautgirdas Ruzgas (Dept. Anal. Chem., LU). Faculty opponent: Fredrik Winqvist, Lindköping University, Sweden. Start 2000-10-01: **PhD 2006-06-10**.
5. Dr. Christer Spégel. *JE was unofficial supervisor, but became acting supervisor when main supervisor Tautgirdas Ruzgas left LU*. Thesis title: "Electrochemical Monitoring of Living Cells". Faculty opponent: Jan C. Behrends, Freiburg University, Germany. Start 2003-01-01: **PhD 2007-12-19**.
6. Dr. Arto Heiskanen. Thesis title: "Monitoring of Cellular Dynamics with Focus on Electrochemical Detection Techniques". Faculty opponent: Prof. Sabeth Verpoorte, Univ. Groningen, The Netherlands. *Phabian Award for best Swedish PhD thesis 2009 from Swedish Academy of Pharmaceutical Sciences*. Start 2004-03-26. **PhD 2009-04-03**
7. Dr. Natalia Kostesha with Marie-Francoise Gorwa-Grauslund (Appl. Microbiology, LTH, LU). Thesis title: "Probing NAD(P)H Availability in Living Cells Using Miniaturized Electrochemical Systems". Faculty opponent: Prof. Ursula Bilitewski, Dept. Mol. Struct. Res., National Research Centre for Biotechnology, Braunschweig, Germany. Start 2005-03-01: **PhD 2009-04-02**.

Co-supervisor of PhD student at LU (Length of PhD studies: approx. 4.5-5 years)

1. Dr. Elisabeth Burestedt - with G. Marko-Varga. Thesis title: "Enzymatic and Immunological Detection Principles for Environmental and Biological Applications". Faculty opponent: Prof. Richard Durst, Anal. Chem. Labs., Cornell Univ., USA. **PhD: 1999-05-25**.
2. Dr. Patrick Önnarfjord - with G. Marko-Varga. Thesis title: "Sample Handling Techniques in Biological and Environmental Applications Emphasizing Biomolecular Recognition and MALDI-TOF MS2". Faculty opponent: Prof. Fred E. Regnier. **PhD: 1999-03-19**.
3. Dr. Sven Kjellström - with G. Marko-Varga. Thesis title: "Sampling and Selective Detection of Peptides and Proteins Emphasizing Microdialysis, Bio-recognition Assays and MALDI-TOF MS". Faculty opponent: Per Andren. **PhD: 2000-11-17**.
4. Dr. Eddie Thordarson - with Jan-Åke Jönsson. Thesis title: "New Directions in Non-Porous Membrane Extraction". Faculty opponent: Prof. Don E. Majors. **PhD 2000-10-13**.
5. Dr. Jan Tønnesen with Merab Kokaia (Restorative Neurobiology, LU). Thesis title: "Gene therapy for neurological disorders – Stem cell and optogenetic strategies". Faculty opponent: Prof. Abdel El Manira. **PhD: 2010-03-13**.
6. Dr. Lars Henrik Skjolding with Lars Montelius (Solid State Physics, LTH, LU). *JE was supervisor until March 2007 when she left LU*. Thesis title: "Electrochemical and Mechanical Thin Film Sensors". Faculty opponent: Prof. Leif Nyholm, Uppsala University, Sweden. Start 2005-08-01: **PhD 2010-05-07**.

Visiting guest PhD students at LU

1. Mareike Lutz (Gorleus Center Drug. Res., Leiden, Holland, guest PhD student) - with G. Marko-Varga
2. David Puig Peña (CID-CSIC, Barcelona, Spain, guest PhD student) - with G. Marko-Varga.
3. Aranchazu Narvaez Garcia (Univ. Alcalá de Henares, Spain, guest PhD student) - with G. Marko-Varga.
4. Montse Castillo (CID-CSIC Barcelona, Spain, guest PhD student) – G. Marko-Varga

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5. Ewa Borowska (Jagiellonian Univ., Cracow, Poland, guest PhD student). 6 months.
6. Andreas Rose (University of Potsdam, guest PhD student) - with Ulla Wollenberger. PhD 2003
7. Wanida Khampha (Bangkok, Thailand, guest PhD student). PhD 2004-10-05
8. Zdenka Fohlerova (Masaryk University, Brno, Check Republic, guest PhD student). Sept 2006- May 2007.
9. Angela Moreno (Univ. Valencia, Spain, guest PhD student). 8 months.
10. Mihaela Badea (Bucharest, Romania) – with Andrei Danet. 8 months
11. Julia Yakovleva (Moscow State Univ., Russia) – with Sergei Eremin. 9 month

DTU Nanotech 2007 -

Main supervision of PhD students at DTU Nanotech 2007- until present (Length of PhD studies: 3 years)

1. Dr. Jesper S. Hansen with Claus Helix Nielsen, Aquaporin AS. Thesis title: “Development of Supported Biomimetic Membranes for Insertion of Aquaporin Protein Water Channels for Novel Water Filtration Applications”. Examiners: Prof. Jörg Kutter (DTU Nanotech), Prof. Poul Nissen (Århus Univ, DK), Prof. Donald Martin (Université Joseph Fourier, Grenoble, France). **PhD: 2010-12-06.**
2. Dr. Jörg Vogel. *Took over main role from Oliver Geschke when he left DTU Nanotech 2010.* Thesis title: “Design, Fabrication and Testing of Support Structures for Biomimetic Water Filters”. Examiners: Prof. Anders Kristensen (DTU Nanotech), Prof. Sabeth Verpoorte (Univ. Groningen, The Netherlands), Director Peter Theilade Thomsen (Biomodics, DK). **PhD: 2011-03-18.**
3. Dr. Maciej Skolimowski. *Originally co-supervisor, but took main role when Oliver Geschke left DTU Nanotech in 2010.* Thesis title: Simulation of the Cystic Fibrosis patient airway habitats using microfluidic devices”. Examiners: Assoc. Prof. Lars Jelsbak (DTU Systems Biology), Dir. Oper. R&D Lars H. Pedersen (Bioneer), Prof. Elisabeth M. J. Verpoorte (Univ. Groningen). **PhD: 2011-11-07.**
4. Dr. Kamila Justyna Pszon-Bartosz. *Took over main role from Oliver Geschke when he left DTU Nanotech 2010.* Thesis title: “Microfluidic devices for investigation of biomimetic membranes for sensor and separation applications”. Examiners: Assoc. Prof. Martin Dufva, DTU Nanotech, Assis. Prof. Séverine Le Gac (Univ. Twente, NL), and Vice President for Develop. Jonatan Kutchinsky, Sophion. **PhD: 2012-02-17.**
5. Miss Letizia Amato with Dr. Stephan Keller and Prof. Anja Boisen (DTU Nanotech). PhD project: “3D carbon-based electrodes for biofuel cells”. **On-going.**
6. Miss Claudia Caviglia with Assoc. Prof. Thomas Andresen. PhD project: “Development of safer non-viral gene transfection vectors”. **On-going.**
7. Mrs Agnieszka Mech-Dorosz with Assoc. Prof Claus Helix Nielsen (DTU Physics, and Aquaporin AS), Within C.O.N.T research school together with the company Aquaporin. PhD project: “Development of Biomimetic Membrane Array Sensors”. **On-going.**
8. Mrs. Fozia Shah with Dr. Arto Heiskanen (DTU Nanotech). PhD project: “Real-time monitoring of stem cell differentiation in brain tissue using microfluidic on-line culture systems”. **On-going.**

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9. Ms. Chiara Canali with Dr. Arto Heiskanen, Martin Dufva. PhD project: “Lab-on-a-Chip Bioimpedance Monitoring System for Tissue Engineering”. **On-going.**

Co-supervision of PhD students at DTU Nanotech 2007 –until present (Length of PhD studies: 3 years)

1. Lee Fischer with Anja Boisen. Thesis title: “Development of an Electrochemical-Cantilever Hybrid Platform”. Examiners: Prof. Jens Ulstrup (DTU Kemi), Assis. Prof. Roberto Raiteri (Univ. Genova, Italy), and Prof. Peter H. Grutter. **PhD: 2011-01-21.**
2. Joanna Lopacinska with Martin Dufva. Thesis title: “Micro- and Nanoengineering meets Cell Biology: Inn Vitro Biocompatibility Testing Concepts”. Examiners: Prof. Niels B. Larsen (DTU Nanotech), CEP Peter Thomsen (Biomodics), and Dr. Nikolaj Gadegaard. **PhD: 2011-11-28**
3. Indumathi Vedarethinam with Winnie Svendsen. Thesis title: “Designing Polymeric Microfluidic Platforms for Biomedical Applications”. Examiners: Prof. Kristoffere Almdal (DTU Nanotech), Assoc. Prof. Jan Bert Gramsberger and Principal Invest. Kalim Mir. **PhD: 2012-02-27.**
4. Luigi Sasso with Winnie Svendsen (DTU Nanotech). PhD project: “Novel Materials for 3D Nanosensors”. **On-going.** Planned PhD 2012.
5. Sofie Folke Bruun with Greger Jungersen (DTU VET) and Anders Wolff. **On-going.** Planned PhD 2015.
6. Soumyaranjan Mohanty with Anders Wolff and Martin Dufva. **On-going.**

Visiting guest PhD students at DTU Nanotech

1. Nick Haslett, guest PhD student from Univ. Canterbury, New Zealand (9 months; May-Dec. 2008).
2. Neus Godino, guest PhD student from Univ. Autónoma Barcelona, Spain (3 months; May-July 2008).
3. Marco Vergani, guest PhD student from Politecnico of Milano, Italy. (4 months in 2011, 1 months in 2012)
4. Kinga Zor, guest PhD student from LU, Sweden. (6 months in 2011)

VISITING SCIENTISTS AND POSTDOCS

At Lund University

1. Prof. Sergei Eremin, Lomonosov Moscow State University, Russia – 15 months (1995-1996)
2. Dr. Seema Rani Jain, New Dehli, India – 12 monhs (1999-2000)
3. Dr. Mihaela Badea, Bucharest University, Romania – 9 months (2000-2001)
4. Dr. Julia Yakovleva, Lomonosov Moscow State University – 18 months (2002-2004)
5. Dr. Svetlana Sapelnikova, Russia – 18 months (2002-2003)
6. Dr. Izabela Zdrojewska, Gdansk Medical University, Poland – 3 months (2005)
7. Dr. Aline Ribayrol, France – 6 months (2004-2005)
8. Dr. Eva Dock, Sweden – from August 2006-August 2008.



At DTU Nanotech

1. Dr. Vasile Coman, Romania – from Oct 1st 2009 – Sept 30th 2010.
2. Dr. Tania Moreno Ramos, Univ. Autónoma de Madrid, Spain. 1 month 2011
3. Dr. Joanna Lopacinska, DTU Nanotech. Oct 2001-Dec 2011.
4. Ass. Prof. Arto Heiskanen – Ørsted postdoc from April 2009 - **current**.
5. Dr. Kinga Zor – Will be hired from May 15th 2012 – May 14 2014 on FNU project “Microfluidic Monitoring of Programmed Cell Death in Living Tissue”.
6. Dr. Haseena Bashir Muhammad. Hired September 15th, 2012.

SUPERVISION OF BACHELOR AND MASTER STUDENTS

Lund University

1. Gunnel Sjögren; "Upprening av a-amylase och amyloglukosidas för immobilisering med hjälp av jonbyteskromatografi", 10 weeks, 1991.
2. Gunilla Nilsson, "Stärkelsekvantifiering med Flow Injection Analysis (FIA)", 20 weeks, 1992.
3. Patrik Önerfjord, Development of Tyrosinase Graphite-Epoxy Based Composite Electrodes for Detection of Phenols, 20 weeks, 1994.
4. Sven Kjellström, "Utveckling av on-line flödesanalyssystem med enzymbaserad immunokemisk detektion av leukotriener och metaboliter", 20 weeks, 1995.
5. Annika Lindgren, "Utveckling av peroxidaserbaserade biosensorer", 20 weeks, 1995.
6. Carl-Johan Svensson, "Utveckling av tyrosinasbaserade biosensorer", 20 weeks, 1995.
7. Michel Frenay (Leiden, Holland), Development of a Fully Integrated Automatic System for the Determination of Phenols in Surface Waters, Incorporating Solid Phase Extraction, Anion Exchange Interface and Biosensor Detection, 5 weeks, 1995.
8. Patrik Magnusson, Development of an amperometric immunosensor for 2,4-D, 20 weeks, 1996.
9. Catalin Nistor, Stabilisation and Application of Tyrosinase Based Biosensor, 20 weeks, 1997.
10. Florentina D. Munteanu, Fundamental and Applied Research on Recombinant and Wild type Horse Radish Peroxidase Based Biosensors, 20 weeks, 1997.
11. Ulrika Schagerlöf, Development of immunoflow systems for pesticides, 20 weeks, 1997.
12. Jolanta Dziemba (Univ. Opole, Poland) - 6 months
13. Mariuz Rak (Univ. Opole Poland) - 6 months
14. Anette Osvik (NTNU Trondheim, Norge) - 1 month

DISTINCTIONS

- 2012: Invited ERC Panel member Biotechnology 2013-2015.
- 2011: Personal invitation by Vice Chancellor Anders Hallberg, Uppsala University, Sweden, to take part in the evaluation of Uppsala University, KoF11. May 9-13, 2011.
- 2010: Appointed by the Danish Minister of Science as member of the Panel “Sundhed, Biotek og Life science” for a Danish roadmap of research infrastructure, 2010.

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2004: Personal invitation by Vice Chancellor Göran Bexell, LU, to participate in the leadership training program AKKA, organised by LU in the search for women to higher positions at LU.

COMMISSIONS OF TRUST

- Member of The Swedish Research Councils evaluation committee (organic, inorganic, and analytical chemistry) - 2002 and 2003. Asked to participate 2004-2007, but forced to say no because of conflicting obligations.
 - Evaluator for the Austrian Research Council (FWF)
 - Evaluator for Centrum för Miljövetenskaplig forskning (CMF), Umeå
 - Member of committee for the Appointment Board of Chemistry at N-faculty, Lund University 2004-2006
 - Member of the Environmental Committee at the Chemical Centre Lund 2004
 - Member of the Board of the Chemical Institution at Lund University 2003-2005 and re-elected for 2006 -2009
 - Invited opponent for the PhD defence of Dr. Whanida Khampha, Bangkok, Thailand;
 - Invited opponent for the PhD defence of Andreas Rose, Univ. Potsdam, Germany.
 - Invited opponent of the Licenciante thesis of Susanna Leth, Dept. Biotechnol. LTH.
 - Member of numerous evaluation committees for PhD defences at LU.
 - External evaluator for PhD of Vasile Coman, Lund University 2009
 - Invited external examiner for PhD of Kristina Möller at Stockholm Univ., Sweden, June 8th 2006.
 - Invited opponent for the PhD defence for Rico Derks, Vrije Universiteit Amsterdam, Department of Chemistry & Pharmaceutical Sciences, The Netherlands, autumn of 2006.
 - External examiner for PhD of Sara Lindström, KTH, Stockholm
 - Member of the gender equality committee at the Chemical Centre Lund.
 - Member of committee for selection of new “dean” and house “dean” of the Chemical Centre, LU. 2005
 - Executive Board member of the EC NoE Nano2Life – responsible for Gender Equality within the network. 2004-2007.
 - Evaluator of lecture position in nanosystems engineering and nanotechnology at Micro Electronic Centre (MIC) at DTU Denmark 2005.
 - Invited external examiner of PhD evaluation board for Malin Nording at Umeå Univ, Sweden, Sept. 22nd, 2006.
 - Invited member of the expert committee of the Nano2Life European Observatory of Nanotechnologies (EON) from July 2006 and forward.
 - Invited evaluator and rapporteur for the Environment program FP7: June-July 2007.
 - Member of the Executive Technical Program Committee (ETCP) of the MicroTAS conferences between 2007-2011
 - Member of the PhD evaluation board at DTU Nanotech from 2008.
 - In the evaluation committee for an Associate Professorship at KU in 2009.
 - Protein DTU task force member 2009 –
 - On the Board for the Council for the Frontiers of Knowledge (CFK), formed to empower African scientists and policy makers 2012-.
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- Editorial Board of the Journal of Analytical Methods of Chemistry
 - Member of DTU's Medico Reference Group
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ORGANISER OF CONFERENCES AND WORKSHOPS

- Organiser of Mini-symposium, EC-meeting October 24, 1994, Ideon Research Town, Lund, Sweden
 - Chairwoman and main organiser of "The 2nd Workshop on Biosensors and Biological Techniques in Environmental Analysis, Grand Hotel, Lund, Sweden, Sept. 11-13, 1996.
 - In the coordinating committee of the Fourth workshop on Biosensors and Biological Techniques in Environmental Analysis, December 1-3, 1999, Maó, Menorca, Spain.
 - Main organiser of numerous EU project meetings in Sweden and abroad during 1998-2011.
 - Co-organiser of the national pedagogic conference SPUK in Lund, Sweden 2000.
 - Organiser of "framtidensverkstad i Kemi", Höör, for the purpose of increasing the communication on chemistry education between Industry, University, high schools, the public (20 people from all sectors invited). Odengården, Höör, June 13-14, 2002.
 - In local organising committee for microTAS 2004 in Malmö, Sweden.
 - Organiser of the large Nano2Life Research meeting in Lund, Sweden, October 22-25, 2007
 - In the advisory board for the NanoBiomedical Science Dating, DTU, Denmark, 2007 and 2008.
 - In organising committee of the Protein DTU workshop "Frontiers in Protein Science", DTU, October 1st 2009. Chairperson: Birte Svensson.
 - In organising committee of the Protein DTU workshop "Technologies in Protein Science" DTU, November 12, 2010. Chairperson: Birte Svensson.
 - In organising committee of the Protein DTU workshop "Protein DTU workshop for Young Researchers in Protein Science". DTU, June 9th 2011. Chairperson: Birte Svensson.
 - In organising committee of the Protein DTU workshop "Frontiers in Protein Science", DTU, November 15th 2011. Chairperson: Birte Svensson.
 - In organising committee of "The 16th International Conference on Electroanalysis (ESEAC2014)" to be held in Malmö, Sweden the summer of 2014. Chairman: Prof. Lo Gorton, LU, Sweden.
 - In organising committee for the Bioelectrochemical Society Conference in 2015 (BES2015) to be held in Malmö, Sweden in the summer of 2015. Chairman: Prof. Lo Gorton, LU, Sweden.
 - Advisory Committee for the "International Conference of the Council for Frontiers of Knowledge – Western Science Meets African Reality" to be held in Kampala, Uganda, November 12-16, 2012.
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COLLABORATIONS

Through the coordination and participation in many EU projects, and the EU Network of Excellence Nano2Life, I have acquired a large international network and collaboration with researchers in many different countries. Some examples are **Russia** (Prof. Sergei Eremin and Prof. Yaropolov, Lomonosov Moscow State University; Dr. Anatoli Reshetilov, Puschino University),

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Ukraine (Dr. Ludmila Taranova), **Poland** (Dr. Iza Zdrojewska), **Thailand** (Dr. Wanida Khampha), **Italy** (Prof. Pino Palleschi, Univ. Tor Vergata), **Spain** (Prof. Alberto Serrano Martinez, University Autonomous of Madrid, Center of Molecular Biology; Prof. Elena Dominguez, Univ. Alcalá de Henares; Prof. Damia Barceló and Maria-Pilar Marco, CID-CSIC, Barcelona), **France** (Prof. Marie Claire Hennion, Ecole Supérieure de Physique et de Chimie de Paris), **Germany** (Assoc. Prof. Ulla Wollenberger, Univ. Potsdam; Dorothea Pfeiffer, CEO of BST, Berlin), **The Netherlands** (Prof. Hubertus Irth, Free Univ. Amsterdam); Ireland (Dr. Erik Moore, Tyndall University); **Greece** (Prof. Irene Mavrides, Demokritos, Athens); **Romania** (Prof. Andrei Danet, Univ. Bucharest); **Check Republic** (Milan Franek, Petr Skladal); **Denmark** (Magrethe Winther-Nielsen, DHI, Hørsholm; Lars Nøregaard, KVL, København); **Norway** (Jan Fredrik Børseth and Thierry Baussant, Iris Biomiljø). Several more within the FP7 project EXCELL and the new FP7 project NanoBio4Trans.

LEADERSHIP TRAINING

- Career course for women (“Kvinnor i karriären”) given by UCLU, Lund University 1998. Two weeks.
 - “Progress in Development of Groups and Leaders”, organized by Lund University Education AB, Right Sinova and Nano2Life 2005 in Hungary. One week.
 - Supervision course “Handledarkurs”, UCLU, Lund University. Two days Jan 2005.
 - Leadership training course (“AKKA –Akademiska Kvinnors Ansvar”), one year 2004-2005. Personal invitation to participate from Rector Göran Bexell, LU, as one of 30 women at LU, organised by Lund University Education AB and Lund University.
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REVIEWING

Through the years I have been reviewing for, e.g., Analytical Chemistry, Analytical and Bioanalytical Chemistry, Biosensors & Bioelectronics, Analytical Chimica Acta, Talanta, The Analyst, JACS, Biotechniques, Lab-on-a-Chip, Spectroscopy, Langmuir, Electro Chim Acta. I am currently on the editorial board of the open access Journal of Analytical Methods of Chemistry.

CONFERENCES

Oral presentations

1. Anabiotec’90, “3rd International Symposium on Analytical Methods in Biotechnology”, San Francisco/Burlingame, 22-24 October, 1990.
2. International Conference on "Biocatalysis: Fundamentals and Applications", June 6-11, 1993, Moscow, Russia.
3. Analysdagarna, (Internordic Conference on Analytical Chemistry), Lund, Sweden, 14-18 June, 1993.

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4. Applications of HPLC and CE in the Biosciences, “12th International Symposium on Biomedical Applications of Chromatography and Electrophoresis. 2nd International Symposium on the Applications of HPLC in Enzyme Chemistry”, September 7-10, 1993 Verona, Italy.
5. 5th European Conference on ElectroAnalysis (ESEAC 94'), Jesolo Lido, Venice, Italy, 22-26 May 1994.
6. Minisymposium, EC-meeting, 24th October 1994, IDEON, Lund, Sweden
7. EC Contractors Meeting on Biosensors for Environmental Monitoring, February 17-18, 1995, Florence, Italy.
8. 7th Symposium of Environmental and Biological Samples in Chromatography, Lund, Sweden, May 7-10, 1995. **Invited.**
9. “Integrated Immuno Extraction Sampling and Portable Biosensor Prototype for In-Field Monitoring (INExPORT)”. European Workshop on Environmental Technologies 1997, Cranfield University, Cranfield, Bedford, U.K, December 9-12. **Invited.**
10. “Integrated Immuno Extraction Sampling and Portable Biosensor Prototype for In-Field Monitoring (INExPORT)” Waste Water Cluster Meeting, Wiesbaden Jan 7-9, 1998. **Invited.**
11. “Immunoanalysis in Sampling and Screening-MEBFOOD project” June 13th 2000. Brussels, Belgium.
12. “Integrated Immuno Extraction Sampling and Portable Biosensor Prototype for In-Field Monitoring (INExPORT)” Concerted Action Workshop on Biosensors for Environmental Monitoring: Technology Evaluation, Acton 1st Hotel, Kinsale, Ireland, 12-15, May 1998. **Invited.**
13. “Integrated Immuno Extraction Sampling and Portable Biosensor Prototype for In-Field Monitoring (INExPORT)”. Concerted Action Workshop on Biosensors for Environmental Monitoring: Technology Evaluation, Paris, May 1998. **Invited.**
14. “The Analysis and Potential Hazards of Environmental Estrogens”. Docent Lecture at the Chemical Center at Lund University, Sweden. 1998.
15. “Fast Analytical Screening Tools for MonitorinFg of Hazardous Environmental Pollutants”. Female scientist symposium at House of Ecology, Lund University, Sweden. May 1999. **Invited.**
16. “Immunoanalysis in Sampling and Screening of Environmental Pollutants”. 4th Workshop on Biosensors and Biological Techniques in Environmental Analysis, December 1-3, 1999, Maó, Menorca, Spain. **Invited.**
17. “Immunosensors in flow analysis for sampling and screening of environmental pollutants”. Flow Analysis in Warsaw, Poland, 25-28 June, 2000.
18. “Sensors in Flow Systems”. Copernicus meeting on Biosensor for environmental monitoring and food control” Russia, Moscow 01-05 June 2001.
19. “Silicon Microchip Based Flow Sensors Using Immobilized Antibodies, Enzymes and Cells”. BioMedicon Valley, Copenhagen, Denmark, 19th September 2001. **Invited.**
20. “Lab-on-a-Chip Based Chemoluminescent Bioassays” Japanese-Swedish Workshop, Dept. Electrical Measurement, Lund University, Sweden. February 21st, 2003. **Invited.**
21. “Micro Systems for Monitoring Dynamic Cellular Events in Real Time”, Colloquia at Microtechnology Centre (MIC). Technical University of Denmark. December 16th, 2004. **Invited.**
22. “Biosensing Microfluidic Systems for Monitoring Dynamic Cellular Events in Real Time”. Biosensor Conference, Granada, Spain, May 26 2004.



23. "Micro Systems for Monitoring Dynamic Cellular Events in Real Time". Biotech Forum, Copenhagen, Denmark, October 7th 2004, **Invited.**
24. "Micro Systems for Monitoring Dynamic Cellular Events in Real Time". Mahidol University, Bangkok, Thailand, November 5th 2004, **Invited.**
25. "Microsensing Systems for Monitoring Intra- and Extra-cellular Events in Real Time". PittCon, March 12-17, 2006 in Orlando, FL, USA. Symposium on "Chips to Cells: the Interface of Microfluidic Analysis and Live Cells" organized by Robert T. Kennedy, Univ. Michigan, USA. **Invited.**
26. "Towards Microfluidic Cell Culturing and Multi-parameter Detection of Intra- and Extra-cellular Events in Real Time". 2nd Annual meeting of the Network of Excellence Nano2Life, Sitges, Spain, March 27-29, 2006. **Invited.**
27. "Microfluidic Systems for Monitoring Intra- and Extra-cellular Events in Real-Time - Focusing on stem cell research on Parkinson's disease". French-Swedish Symposia on Nanobiotech, organised by the French Embassy in Sweden, Nov. 20-21, 2006, Stockholm, Sweden, 2006. **Invited.**
28. "Microsensing Systems for Monitoring Intra- and Extra-cellular Events in Real-Time". NanoDTU day, Sept. 27 2006, DTU, Kgs. Lyngby, Denmark. **Invited.**
29. "Biomedical Microsystems Section (BIOMICS)". MIC conference day, November 29, 2007.
30. "Towards a Microfluidic Cell Culture and Detection Platform for Studying the Dynamics of Cellular Processes". Nano-science center, Copenhagen University November 14th 2007. **Invited.**
31. "Towards a Microfluidic Cell Culture and Detection Platform for Studying the Dynamics of Cellular Processes". Lab-on-a-Chip World Congress, May 15-16, 2007, Edinburgh, Scotland. **Invited.**
32. Towards a Microfluidic Cell Culture and Detection Platform for Studying the Dynamics of Cellular Processes. Dansk Fysisk Selskabs (DSF) annual meeting 2007 in Nyborg, Denmark, June 20th 2007. **Invited.**
33. "Working with Gender in the network of excellence Nano2Life", NorWIP (Nordic Women in Physics), August 17th 2007, DTU, Kgs Lyngby, Denmark. **Invited**
34. "Biomedical Microsystems Section (BIOMICS)". Joint meeting between VET-DTU and DTU MIC. Veterinærinstituttet December 2, 2007.
35. "High Content Screening". Pharma DTU meeting, DTU Nanotech, November 2008. **Invited.**
36. "Working with Gender in the network of excellence Nano2Life", European Platform for Women Scientists (EPWS), June 6th, 2008, Vilnius, Lithuania. **Invited.**
37. "Working with Gender in the network of excellence Nano2Life", Finish women in physics, October 6th 2008. **Invited.**
38. "Detection Platforms for Studying Real Time Kinetics and Dynamics of Cellular Processes". Given with Arto Heiskanen. MIC colloquia 2008.
39. "Perfusion based cell culture chips", Arto Heiskanen did it in my place, NATO Advanced Study Institute, August 2009, Cesme, Turkey. **Invited.**
40. "Chip based electroanalytical systems for monitoring cellular dynamics". Arto Heiskanen did it in my place. NATO Advanced Study Institute, August 2009, Cesme, Turkey. **Invited.**
41. "A nanotechnology-based guided tour inside living cells". Oliver Geschke did it in my place. A presentation of the EXCELL project made for selected journalists from several countries at the press conference following the EuroNanoForum, held in Prague 2-3, June, 2009. **Invited.**



42. "Nanosensors and Lab-on-a-Chip Systems". Sensomar workshop on offshore environmental sensing for the oil industry – the future of monitoring the marine environment, Stavanger October 22-23, 2009. **Invited**
43. "Bioelectrochemical probing of intracellular redox processes in living yeast cells using a microfluidicelectrochemical sensor array". Vasile Corman gave it in my place, Biosensors Europe 2010, Glasgow, Scotland, 2010. **KeyNote lecture**
44. "Micro- and Nanoanalytical Tools for Exploring Cellular Dynamics at Nanoscale", Protein DTU workshop on "Technologies in Protein Science". November 12, 2010. **Invited**
45. "Micro- and Nanoanalytical Tools for Exploring Cellular Dynamics at Nanoscale", Workshop on Biomimetic and Bioanalytical Systems 2010. November 22-23, 2010, Luckenwalde, Germany. **Invited**
46. "Real Time Monitoring of Cellular Dynamics Using a Microfluidic Cell Culture System with Integrated Electrode Array and Ad-hoc Potentostat". The 62nd Annual Meeting of the International Society of Electrochemistry, 11-16 September 2011, Niigata, Japan. **Invited**
47. "Real Time Monitoring of Cellular Dynamics Using a Microfluidic Cell Culture System with Integrated Electrode Array and Ad-hoc Potentostat". Medicinteknikdagarna 2011, 11-12 October 2011, Linköping, Sweden. **Invited**
48. "Exploring Cellular Dynamics at Nanoscale Using Various Micro and Nanoanalytical Tools". 13as Jornadas de Analisis Instrumental, 14-16 November 2011, Barcelona, Spain. **Plenary lecture.**
49. "Real-time monitoring of the dynamics in cellular redox environment – Development of a tool for characterizing cellular pathogenesis and high throughput screening". Arto Heiskanen gave the talk. EPS Anticancer Drugs 2011, Stockholm, Sweden, October 26-27, 2011. **Invited**
50. "Lab-on-a-Chip – Exploring Cellular Dynamics at Nanoscale". KAIST-DTU Joint Workshop on Nanotechnology. January 9-10, 2012, KAIST Institute for the NanoCentury Graduate School of Nanoscience and Technology, South Korea.
51. "Lab-on-a-Chip – Exploring Cellular Dynamics at Nanoscale". Nanyang Technological University (NTU)-DTU Joint Workshop on Nanotechnology. January 12-13, 2012. NTU, Singapore.
52. "Micro and Nanoanalytical tools for Exploring Cellular Dynamics at Nanoscale". Medical Research Academy Workshop, Lund University. March 1st 2012. **Invited.**
53. "Enabling micro and nanotechnology for exploring cellular dynamics at nanoscale" Nano2012Update, Helsingborg March 27, 2012. **Invited.**
54. "Exploring Cellular Dynamics at Nanoscale Using Micro and Nanoanalytical Tools". EMBS Micro and Nanotechnology in Medicine Conference, Westin Maui Resort & Spa, Maui, Hawaii. December 3-7, 2012. **Invited.**
55. Neuro-2012 Las Vegas USA, May 14-16, 2012. **Invited. Finally not able to attend**
56. "Nanosensors and Lab-on-a-chip systems for environmental monitoring", DTU/KAIST seminar on Integrated Water Technology, at DTU Environment, May 14th, 2012. **Invited**
57. "Exploring Cellular Dynamics at Nanoscale Using Micro and Nanoanalytical Tools". International Conference of the Council for Frontiers of Knowledge – Western Science Meets African Reality. Kampala, Uganda, November 12-16, 2012. **Key Note lecture.**
58. Bioelectrochemistry Society Conference (BES 2013) Bochum March 17-21, 2013. **Invited**

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Poster presentations

- Kemistdagarna i analytisk kemi, (Internordic Conference on Analytical Chemistry), Lund, Sweden, 16-20 June, 1985.
- Mikrobiologidagarna, (Swedish Conference on Microbiology and Biotechnology), Malmö, Sweden, 22-24 April, 1987.
- Kemistdagarna i analytisk kemi, (Internordic Conference on Analytical Chemistry), Lund, Sweden, 9-12 June, 1987.
- International Symposium on Detection in Liquid Chromatography and Flow Injection Analysis (HPLC/FIA), Cordoba, Spain, 20-22 Sept., 1989.
- International Workshop on Flow Injection Analysis (FIA) based on Enzymes or Antibodies, Braunschweig, West-Germany, 14-15 May, 1990.
- Kemistdagarna i analytisk kemi, (Internordic Conference on Analytical Chemistry), Lund, Sweden, 17-21 June, 1990.
- EC Contractors Meeting on Biosensors for Environmental Monitoring, 15-16 february 1993, Berlin, Germany.
- HPLC'93, 17th International Symposium on Liquid Chromatography, May 9-14, 1993, Hamburg, Germany. Kemistdagarna i analytisk kemi, (Internordic Conference on Analytical Chemistry), Lund, Sweden, 14-18 June, 1993.
- EC Contractors Meeting on Biosensors for Environmental Monitoring, 17-18 february, 1994, London, England.
- 7th Symposium of Environmental and Biological Samples in Chromatography, Lund, Sweden, May 7-10, 1995.
- Kemistdagarna i analytisk kemi, (Internordic Conference on Analytical Chemistry), Stockholm, Sweden, June, 1996.
- Mini-symposium "Arbeitstreffen BIOANALYTIK" at the Department of Analytical Chemistry, University of Potsdam, Germany, November 18-20, 1996.
- Two posters on 2nd Workshop on Biosensors and Biological Techniques in Environmental Analysis, Lund, Sweden, Sept. 11-13, 1996.
- Two posters on "Kemistdagarna i analytisk kemi" (Internordic Conference on Analytical Chemistry), Uppsala. June 14-17, 1999.
- Fourth workshop on Biosensors and Biological Techniques in Environmental Analysis, December 1-3, 1999, Maó, Menorca, Spain.
- Taranova L.A. Ivaschenko G., Fesay A., Manolov T., Kosheleva I.A., Filonov A. E. Boronin A.M., and Emnéus J. Selection of surfactant degrading bacteria capable of utilizing polycyclic aromatic hydrocarbons. Organic Soil Contaminants 2001, 3-5 September 2001, Copenhagen, Denmark, SETAC Europe Conference, P. 9.
- Sokolov S., Kosheleva I., Taranova L., Boronin A., Emneus J. Genetic methods for monitoring of surfactant degrading microorganisms. Organic Soil Contaminants 2001, 3-5 September 2001, Copenhagen, Denmark, SETAC Europe Conference, P. 9.
- M. Tudorache, E. Thordarson, M. Rak, J. Å. Jönsson, J. Emnéus – "Sample enrichment by Immuno-SLM", oral presentation at the Joint Meeting "Analytical Biotechnology", Potsdam, Germany, April 2000.

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- M. Tudorache, M. Rak, J. Å. Jönsson, J. Emnéus – “Sample preconcentration by Immuno-SLM extraction”, poster presentation at the “10th Symposium on Handling of Environmental and Biological Samples in Chromatography”, Mainz, Germany, April 2001.
- M. Tudorache, Mariusz Rak, Jan Åke Jönsson, Jenny Emnéus – “Immuno-SLM extraction- a new sample handling technique. Extraction of pollutants from spiked real samples”, poster presentation at the “5th Euroconference on Environmental Analytical Chemistry” The Impact of (Bio-)Sensors and Bioanalytical Techniques on Environmental Monitoring, Blarney, Ireland, September 2001. The poster was the winner of “THE THIRD PRIZE” in the POSTER COMPETITION.
- Nistor, and J. Emnéus - "Amperometric Enzyme-Flow Immunoassay for Detection of Trichlorophenol", poster presented at "The Pittsburgh Conference - Pittcon 2001", New Orleans, USA, 4-9 March 2001, paper 2169P.
- C. Nistor, M. Badea, N. Ocio, Y. Goda, S. Fujimoto, J. Emnéus - "Enzyme-Flow Immunoassay for Alkylphenol Ethoxylate and Alkylbenzene Sulfonate Surfactants", poster presented at the "11th Annual Meeting of SETAC Europe", 6-10 May 2001, Madrid Spain, poster no. W/EH046.
- C. Nistor; M. Tudorache and J. Emnéus - "Flow Immunoassays for Phenolics and Surfactants", poster presented at the "Sensing Technologies for Contaminated Sites and Groundwater - 1st SENSOPOL Workshop", 10-15 May 2001, Alcalá de Henaréz, Spain.
- C. Spéjel, J. Yakovleva, J. Emnéus and T. Ruzgas. Real-Time Electrochemical Monitoring of Intracellular Redox Events at Monitoring Molecules in Neuroscience”, Stockholm, Sweden, June 24-27, 2003.
- Mediated Amperometric Assessment Of Enzyme Activity In Living *S. Cerevisiae* Cells Immobilized On Platinum Micro-Band Electrode Chip, Micro Total Analysis Systems 2004, Malmö Sweden, September 26 - 30, 2004.
- C. Spéjel, A. Heiskanen, J. Yakovleva, T. Johanson, M.-F. Gorwa-Grauslund, J. Emnéus and T. Ruzgas, Amperometric Determinations of Intracellular Enzyme Activities in Living *S. cerevisiae* Cells Immobilized on Micro-Band Electrodes. XVIIIth International Symposium on Bioelectrochemistry and Bioenergetics, Coimbra, 19-24 June 2005.
- A. Heiskanen, C. Spéjel, N. Kostesha, T. Johanson, M.-F. Gorwa-Grauslund, Tautgirdas Ruzgas, J. Emnéus. Towards real-time monitoring of cellular proliferation – Impedance spectroscopy of *Saccharomyces cerevisiae* cells as a model case. XVIIIth International Symposium on Bioelectrochemistry and Bioenergetics, Coimbra, 19-24 June 2005.

LANGUAGES

- Fluent in Swedish (spoken and written),
- Fluent in English (spoken and written),
- Fluent in Danish (spoken and relatively well written)
- Get by in spoken and written French and German

TEACHING EXPERIENCE AND DEVELOPED TEACHING MATERIAL

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