Publications:

Immobilisation of barley aleurone layers enables parallelisation of assays and analysis of transient gene expression in single cells
Publication: Research - peer-review › Journal article – Annual report year: 2017

Towards a fully automated lab-on-a-disc system integrating sample enrichment and detection of analytes from complex matrices
Publication: Research › Ph.D. thesis – Annual report year: 2017

3D Printed Silicone–Hydrogel Scaffold with Enhanced Physicochemical Properties
Publication: Research - peer-review › Journal article – Annual report year: 2016

A Centrifugal Microfluidic Platform Using SLM Extraction: for combined sample clean-up and enrichment of trace analytes
Publication: Research - peer-review › Poster – Annual report year: 2016

A three-dimensional approach to in vitro culture of immune-related cells
Publication: Research › Ph.D. thesis – Annual report year: 2016

Boronate-Modified Interdigitated Electrode Array for Selective Impedance-Based Sensing of Glycated Hemoglobin
Boonyasit, Y., Laiwattanapaisal, W., Chailapakul, O., Emnéus, J. & Heiskanen, A. 2016 In : Analytical Chemistry. 88, 19, p. 9582–9589
Publication: Research - peer-review › Journal article – Annual report year: 2016

Comparison of Ultrasonic Welding and Thermal Bonding for the Integration of Thin Film Metal Electrodes in Injection Molded Polymeric Lab-on-Chip Systems for Electrochemistry
Matteucci, M., Heiskanen, A., Zor, K., Emnéus, J. & Taboryski, R. J. 2016 In : Sensors. 16, 11, 12 p., 1795
Publication: Research - peer-review › Journal article – Annual report year: 2016

Developing 3D microstructures for tissue engineering
Publication: Research › Ph.D. thesis – Annual report year: 2016

Development and validation of a colorimetric sensor array for fish spoilage monitoring
Publication: Research - peer-review › Journal article – Annual report year: 2015
Development of solid supports for electrochemical study of biomimetic membrane systems
Publication: Research › Ph.D. thesis – Annual report year: 2016

Electrical impedance tomography methods for miniaturised 3D systems
Publication: Research - peer-review › Journal article – Annual report year: 2017

Fabrication and characterization of 3D pyrolytic carbon microelectrodes for electrochemistry
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Fabrication of scalable tissue engineering scaffolds with dual-pore microarchitecture by combining 3D printing and particle leaching
Publication: Research - peer-review › Journal article – Annual report year: 2016

Investigating the Role of Surface Materials and Three Dimensional Architecture on In Vitro Differentiation of Porcine Monocyte-Derived Dendritic Cells
Publication: Research - peer-review › Journal article – Annual report year: 2016

Monitoring intra- and extracellular redox capacity of intact barley aleurone layers responding to phytohormones
Publication: Research - peer-review › Journal article – Annual report year: 2016

Prediction of wastewater quality using amperometric bioelectronic tongues
Publication: Research - peer-review › Journal article – Annual report year: 2016

Pyrolytic 3D Carbon Microelectrodes for Electrochemistry
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Pyrolytic 3D Carbon Microelectrodes for Electrochemistry
Publication: Research - peer-review › Conference article – Annual report year: 2017

Pyrolytic carbon electrode for dopamine detection from cells
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Revisiting the IFN-γ release assay: Whole blood or PBMC cultures? - And other factors of influence
Publication: Research - peer-review › Journal article – Annual report year: 2016

A Lab-on-a-Disc Platform for Trapping of Cell Population, Monitoring of Cell growth and Evaluation of Redox Metabolism
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015
A Lab-on-a-disc platform for trapping of cells, monitoring of cell behaviour and evaluation of redox metabolism
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2015

An impedance method for spatial sensing of 3D cell constructs – towards applications in tissue engineering
Publication: Research - peer-review » Journal article – Annual report year: 2015

Application of EIS in Characterization of Hydrogel Support for Biomimetic Membrane
Publication: Research - peer-review » Conference abstract for conference – Annual report year: 2015

A reusable device for electrochemical applications of hydrogel supported black lipid membranes
Publication: Research - peer-review » Journal article – Annual report year: 2015

Assembly of Gold Nanoparticle Mono-and Multi-Layer Structures and Evaluation of Their Physicochemical Characteristics
Publication: Research - peer-review » Conference abstract for conference – Annual report year: 2015

Bioimpedance monitoring of 3D cell culturing-Complementary electrode configurations for enhanced spatial sensitivity
Publication: Research - peer-review » Journal article – Annual report year: 2015

Carbon nanopillars for stem cell differentiation and dopamine detection
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2015

Centrifugal Microfluidic Platform Using Supported Liquid Membrane Extraction for Combined Sample Clean-Up and Enrichment of Trace Analytes
Publication: Research - peer-review » Conference abstract for conference – Annual report year: 2015

Centrifugal Microfluidic Platform Using Supported Liquid Membrane Extraction for Combined Sample Clean-Up and Enrichment of Trace Analytes
Publication: Research - peer-review » Poster – Annual report year: 2015

Dense high-aspect ratio 3D carbon pillars on interdigitated microelectrode arrays
Publication: Research - peer-review » Journal article – Annual report year: 2016

Development of a Plastic Membrane Containing Micro-hole(s) for a Potential Bio-Sensing Application
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2015
Development of Electrical Impedance Methods for 3D Cell Cultures
Publication: Research › Ph.D. thesis – Annual report year: 2015

Electrical impedance spectroscopy with optimised electrode configurations for 3D tissue engineering applications
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Enhanced multielectrode configurations in miniaturized 3D electrical impedance spectroscopy and tomography – monitoring the overall process of tissue engineering with spatial sensing for future challenges in microfluidics
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Fabrication of scalable and structured tissue engineering scaffolds using water dissolvable sacrificial 3D printed moulds
Publication: Research - peer-review › Journal article – Annual report year: 2015

Fabrication of Three Dimensional Tissue Engineering Polydimethylsiloxane (PDMS) Microporous Scaffolds Integrated in a Bioreactor Using a 3D Printed Water Dissolvable Sacrificial Mould
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Impedance-based monitoring for tissue engineering applications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Impedance Spectroscopic Characterisation of Porosity in 3D Cell Culture Scaffolds with Different Channel Networks
Publication: Research - peer-review › Journal article – Annual report year: 2014

Impedimetric Toxicity Assay Evaluating Free and Liposome-loaded Anticancer drugs
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Impedimetric toxicity assay in microfluidics using free and liposome-encapsulated anticancer drugs
Publication: Research - peer-review › Journal article – Annual report year: 2015

Intelligent 3D Cell Scaffolds for Environmental and Life Science Applications
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Interdependence of initial cell density, drug concentration and exposure time revealed by real-time impedance spectroscopic cytotoxicity assay
Publication: Research - peer-review › Journal article – Annual report year: 2015
Interdigitated Carbon Electrodes for Stem Cell Differentiation and Dopamine Detection
Publication: Research - peer-review › Poster – Annual report year: 2015

Method of Manufacturing A Porous Polymer Component Involving Use of A Dissolvable, Sacrificial Material
Publication: Research › Patent – Annual report year: 2015

Pyrolysed carbon microelectrode for Environmental and Life Science Applications
Publication: Research - peer-review › Poster – Annual report year: 2015

Pyrolysed carbon microelectrode in a self-aligning electrochemical batch system
Hemanth, S., Amato, L., Caviglia, C., Emnéus, J. & Keller, S. S. 2015
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

A compact microelectrode array chip with multiple measuring sites for electrochemical applications
Publication: Research - peer-review › Journal article – Annual report year: 2014

A compact multifunctional microfluidic platform for exploring cellular dynamics in real-time using electrochemical detection
Publication: Research - peer-review › Journal article – Annual report year: 2014

Conducting 3D-carbon scaffolds induce spontaneous differentiation of human neural stem cells and measure neurotransmitter release in real-time
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014
Electrochemical characterization of poly(ether sulphone) supported layer-by-layer self assembly for membrane protein studies

Electrochemical impedance spectroscopy is a versatile technique for new challenges in 3D cell culture

Electrochemical impedance spectroscopy is a versatile technique for new challenges in 3D cell culture

Electrochemistry in a centrifugal microfluidic system: Towards a novel point-of-care technology platform

Gene Expression of Albumin is Down-regulated in hIPS-derived Hepatocyte-like Cells Cultured at Flow Conditions

Hepatic Differentiation of Human Induced Pluripotent Stem Cells in a Perfused 3D Porous Polymer Scaffold for Liver Tissue Engineering

Impedance-Based Detection for Facing New Challenges in Biotechnology: Enhanced 3D Sensing, Conductometry and Electrode Functionalization

Impedance spectroscopic monitoring of the effect of phytochemical compounds on wound healing in microfluidics

Mediated amperometric monitoring of DT-diaphorase induction in cancer cells: tool for screening phytotherapeutical drugs

Monitoring programmed cell death of living plant tissues in microfluidics using electrochemical and optical techniques

Perfusion-based three dimensional (3D) tissue engineering platform with integrated bioimpedance sensing
Programmed cell death: The life ambition of the barley aleurone layer
Mark, C., Zor, K., Heiskanen, A., Dufva, M., Emnéus, J. & Finnie, C. 2014
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Pyrolysed 3D-Carbon Scaffolds Induce Spontaneous Differentiation of Human Neural Stem Cells and Facilitate Real-Time Dopamine Detection
Publication: Research - peer-review › Journal article – Annual report year: 2014

Real-time monitoring of drug-induced cytotoxicity kinetics using a tailor-made impedance platform
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Tailoring the structure and the properties of pyrolysed carbon electrodes
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

A bioprocessed-based sensing system for monitoring cellular dynamics in a 3D culture environment
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Bioelectrochemical probing of intracellular redox processes in living yeast cells—application of redox polymer wiring in a microfluidic environment
Publication: Research - peer-review › Journal article – Annual report year: 2013

Bioimpedance based Lab-on-a-Chip (LOC) systems for tissue engineering
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013
Design and optimisation of a lab-on-a-chip system with integrated sensors for 3D tissue
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Development of a lab-on-a-chip system with integrated sensors for 3D tissue engineering applications
Proceedings of the 15th International Conference on Biomedical Engineering. 1 p.
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Doped Overoxidized Polypyrrole Microelectrodes as Sensors for the Detection of Dopamine Released from Cell Populations
In: Analyst. 138, p. 3651-3659
Publication: Research - peer-review › Journal article – Annual report year: 2013

Electrochemical monitoring of reducing capacity during programmed cell death of plant tissue
Publication: Research - peer-review › Poster – Annual report year: 2014

Molecular beacon nanosensors for live cell detection and tracking differentiation and reprogramming
Ilieva, M., Dufva, M. & Emnéus, J. 2013
220 p.
Publication: Research › Ph.D. thesis – Annual report year: 2013

Poly(Dimethylsiloxane) (PDMS) Affects Gene Expression in PC12 Cells Differentiating into Neuronal-Like Cells
Lopacinska, J. M., Emnéus, J. & Dufva, M. 2013
Publication: Research - peer-review › Journal article – Annual report year: 2012

Pyrolysed carbon resonators: Fabrication and characterization
Publication: Research - peer-review › Poster – Annual report year: 2013

Pyrolysed Carbon Scaffold for Bioelectrochemistry in Life Science
Amato, L., Emnéus, J., Keller, S. S. & Heiskanen, A. 2013
Publication: Research › Ph.D. thesis – Annual report year: 2014

Real-time impedimetric monitoring of Poly(ethyleneimine)E-mediated cytotoxicity during gene transfection
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Simulation of the Cystic Fibrosis patient airway habitats using microfluidic devices
130 p.
Publication: Research - peer-review › Ph.D. thesis – Annual report year: 2013
The MainSTREAM Component Platform: A Holistic Approach to Microfluidic System Design
Publication: Research - peer-review › Journal article – Annual report year: 2013

Theoretical and experimental comparison of microelectrode sensing configurations for impedimetric cell monitoring
Publication: Research - peer-review › Book chapter – Annual report year: 2014

Using microfluidics to study programmed cell death: A new approach
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Bioimpedance based Lab-on-a-Chip (LOC) systems for tissue engineering
Publication: Research › Poster – Annual report year: 2013

Compact potentiostat for cellular electrochemical imaging with 54 parallel channels
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Comparison of microelectrode sensing configurations for impedimetric cell monitoring
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Dense high aspect ratio pillar arrays for carbon MEMS electrodes
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Electrochemical characterization of ETFE/hydrogel platform for lipid bilayer stabilization
Publication: Research - peer-review › Poster – Annual report year: 2013

Electrochemical evaluation of dopamine detection on pyrolysed carbon and gold electrodes
Publication: Research - peer-review › Poster – Annual report year: 2013

Electrochemical evaluation of pyrolysed high-aspect ratio 3D electrodes for biofuel cell applications
Publication: Research - peer-review › Poster – Annual report year: 2013

Fabrication of high-aspect ratio SU-8 micropillar arrays
Publication: Research - peer-review › Journal article – Annual report year: 2012
Fabrication of single vertically aligned carbon nanotubes for cellular electrochemistry
Publication: Research - peer-review › Poster – Annual report year: 2013

Impedance spectroscopic monitoring of in-vitro cell growth and differentiation
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Microfluidic monitoring of programmed cell death in living plant seed tissue
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Microfluidic monitoring of programmed cell death in living plant seed tissue
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Modular microfluidic system as a model of cystic fibrosis airways
Publication: Research - peer-review › Journal article – Annual report year: 2012

Monitoring programmed cell death of living plant tissues in microfluidics using electrochemical and optical techniques
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Multichannel Bipotentiostat Integrated With a Microfluidic Platform for Electrochemical Real-Time Monitoring of Cell Cultures
Publication: Research - peer-review › Journal article – Annual report year: 2012

Novel Materials for Cellular Nanosensors
Publication: Research › Ph.D. thesis – Annual report year: 2012

Quantitative Label-Free Cell Proliferation Tracking with a Versatile Electrochemical Impedance Detection Platform
Publication: Research - peer-review › Journal article – Annual report year: 2012

Self-assembled diphenylalanine nanowires for cellular studies and sensor applications.
Publication: Research - peer-review › Journal article – Annual report year: 2012

Design, fabrication and testing of support structures for biomimetic water filters
Publication: Research › Ph.D. thesis – Annual report year: 2011

Development of supported biomimetic membranes for insertion of aquaporin protein water channels for novel water filtration applications
Assessing the efficacy of vesicle fusion with planar membrane arrays using a mitochondrial porin as reporter
Pszon-Bartosz, K. J., Hansen, J. S., Stibius, K. B., Groth, J. S., Emnéus, J., Geschke, O. & Helix Nielsen, C. 2011 In : Biochemical and Biophysical Research Communications. 406, 1, p. 96-100
Publication: Research - peer-review › Journal article – Annual report year: 2011

Diphenylalanine peptide nanowires for sensing applications
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Fabrication of high aspect ratio SU-8 micropillar arrays
Publication: Research - peer-review › Poster – Annual report year: 2011

Formation of Giant Protein Vesicles by a Lipid Cosolvent Method
Publication: Research - peer-review › Journal article – Annual report year: 2011

Interaction between sodium dodecyl sulfate and membrane reconstituted aquaporins: A comparative study of spinach SoPIP2;1 and E. coli AqpZ
Publication: Research - peer-review › Journal article – Annual report year: 2011

Long-term brain slice culturing in a microfluidic platform
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Microfluidic devices for investigation of biomimetic membranes for sensor and separation applications
Publication: Research › Ph.D. thesis – Annual report year: 2011

Monitoring of cellular dynamics with electrochemical detection techniques
Publication: Research - peer-review › Book chapter – Annual report year: 2012

Probing the redox metabolism in the strictly anaerobic, extremely thermophilic, hydrogen-producing Caldicellulosiruptor saccharolyticus using amperometry
Publication: Research - peer-review › Journal article – Annual report year: 2011

Real-time monitoring of cellular dynamics using a microfluidic cell culture system with integrated electrode array and potentiostat
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011
Self-Assembled Peptide Nanowires as a Multifunctional Platform for Cellular Studies
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Titanium tungsten coatings for bioelectrochemical applications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Chip based electroanalytical systems for monitoring cellular dynamics
Publication: Research - peer-review › Book chapter – Annual report year: 2010

Conducting polymer 3D microelectrodes
Publication: Research - peer-review › Journal article – Annual report year: 2010

Construction and characterisation of a modular microfluidic system: coupling magnetic capture and electrochemical detection
Publication: Research - peer-review › Journal article – Annual report year: 2010

Diphenylalanine Peptide Nanowires for Sensing Applications
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2010

Microfluidic dissolved oxygen gradient generator biochip as a useful tool in bacterial biofilm studies
Publication: Research - peer-review › Journal article – Annual report year: 2010

Peptide-based nanosensors
Publication: Research - peer-review › Poster – Annual report year: 2010

Peptide nanowires/conductive polymer biosensing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Perfusion based cell culture chips
Publication: Research - peer-review › Book chapter – Annual report year: 2010

Automated sampling and data processing derived from biomimetic membranes
Perry, M., Vissing, T., Boesen, P., Hansen, J. S., Emnéus, J. & Helix Nielsen, C. 2009 In : Bioinspiration & Biomimetics. 4 , 4, p. 044001
Publication: Research - peer-review › Journal article – Annual report year: 2009

Development of a biomimetic scaffold for transmembrane protein incorporation: Stabilizing membranes by hydrogel encapsulation
Development of an Automation Technique for the Establishment of Functional Lipid Bilayer Arrays

Development Of Novel Biomimetic Membrane Designs For Separation And Biosensor Applications

Development Of Novel Biomimetic Membrane Designs For Separation And Biosensor Applications

Electrochemical Probing of in Vivo 5-Hydroxymethyl Furfural Reduction in Saccharomyces cerevisiae

Gold Cleaning Methods for Electrochemical Detection Applications

Large scale biomimetic membrane arrays

Mediator-assisted Simultaneous probing of Cytosolic and Mitochondrial Redox activity in living cells

On-chip microfluidic systems for determination of L-glutamate based on enzymatic recycling of substrate
Laiwattanapaisal, W., Yakovleva, J., Bengtsson, M., Laurell, T., Wiyakrutta, S., Meevootisom, V., Chailapakul, O. & Emnéus, J. 2009 In : Biomicrofluidics. 3, 1, p. 014104

Real-time detection of cofactor availability in genetically modified living Saccharomyces cerevisiae cells - Simultaneous probing of different geno- and phenotypes

Reusable Biosensor based on Magnetic beads and Electrochemical detection

Supported lipid membrane systems for commercial aquaporin water filtration applications
You can never guess who has lived for six decades Preface Gunnar Otto Gorton
Publication: Research - peer-review › Journal article – Annual report year: 2009

Analysis of triazines and associated metabolites with electrospray ionization field-asymmetric ion mobility spectrometry/mass spectrometry
Publication: Research - peer-review › Journal article – Annual report year: 2008

Characterization of NTA-Thiol Monolayers on Au Electrodes for Application in a Cantilever-based heavy Metal Ion Sensor
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Characterization of NTA-Thiol Monolayers on Au Electrodes for Application in a Cantilever-based Hybrid Sensor for Heavy Metal Ion Detection

Characterization of NTA-Thiol Monolayers on Au Electrodes for Application In a Hybrid Sensor for Heavy Metal Ion Detection
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Chip based electroanalytical systems for cell analysis
Publication: Research - peer-review › Journal article – Annual report year: 2008

Development of a Microfluidic On-Line Culture System for Combined Electrochemical and Optical Real-Time Detection of Cellular Processes
Publication: Research - peer-review › Conference article – Annual report year: 2008

Electrochemical Immunoassays in Bioelectrochemistry
Publication: Research - peer-review › Book chapter – Annual report year: 2008

Fabrication and Characterization of Interdigitated Electrodes for Potential Application in Combinatorial Studies
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Fully automated microchip system for the detection of quantal exocytosis from single and small ensembles of cells
Publication: Research - peer-review › Journal article – Annual report year: 2008

Gold Cleaning Methods for Electrochemical Detection Applications
Publication: Research - peer-review › Poster – Annual report year: 2008
Gold Cleaning Methods for Electrochemical Detection Applications
Publication: Research - peer-review › Book chapter – Annual report year: 2008

Monitoring of Saccharomyces cerevisiae cell proliferation on thiol-modified planar gold microelectrodes using impedance spectroscopy
Publication: Research - peer-review › Journal article – Annual report year: 2008

Publication: Research - peer-review › Journal article – Annual report year: 2007

On-Chip Determination of Dopamine Exocytosis Using Mercaptopropionic Acid Modified Microelectrodes
Publication: Research - peer-review › Journal article – Annual report year: 2007

Amperometric monitoring of redox activity in living yeast cells: comparison of menadione and menadione sodium bisulfite as electron transfer mediators
Publication: Research - peer-review › Journal article – Annual report year: 2004

Projects:

3D micro/nanotopography and material cues for stem cell differentiation
Asif, A., Emnéus, J., Keller, S. S. & Serrano, A. M. 01/07/2017 → 30/06/2020
Project: PhD

3D perfusion LOCs with integrated bioreactorisand sensors for modelling neuronal disorders
Khan, M. S., Emnéus, J. & Heiskanen, A. 15/06/2017 → 14/06/2020
Project: PhD

Perfusable 3D scaffold based drug and compound delivery systems for developmental patterning and regenerative medicine
Ghani, M., Emnéus, J., Alm, M. & Heiskanen, A. 01/06/2017 → 31/05/2020
Project: PhD

Polymer and carbon based optoelectrical waveguides
Vasudevan, S., Emnéus, J. & Keller, S. S. 01/05/2017 → 30/04/2020
Project: PhD

Optimizing and refining 3D culturing of human stem cells for predictive toxicity
Lauschke, K., Vinggaard, A. M., Emnéus, J. & Taxvig, C. 01/12/2016 → 30/11/2019
Project: PhD

Efficacy of multi-modal biomaterial scaffolds in a lab-on-a-chip model of Parkinson's Diseases
Kajtez, J., Emnéus, J. & Heiskanen, A.
Conducting pyrolysed 3D carbon scaffolds (p3D-CS) for cell replacement therapy and tissue engineering
Bunea, A., Emnéus, J., Keller, S. S. & Larsen, N. B.
01/10/2014 → 30/09/2017
Project: PhD

Lab-on-chip system for virus detection in water
01/10/2013 → 11/01/2017
Project: PhD

Electromechanical sensors on a rotating disc
15/08/2013 → 10/05/2017
Project: PhD

Characterization of cell-derived microparticles by nanotechnological methods
Cherré, S., Rozlosnik, N., Heegaard, N. H., Emnéus, J., Pedersen, S. & Tenje, M.
01/04/2013 → 15/09/2016
Project: PhD

Developing 3D microstructures for tissue engineering
15/10/2012 → 16/03/2016
Project: PhD

Lab-on-a-Chip Bioimpedance Monitoring System for Tissue Engineering
01/09/2012 → 09/11/2015
Project: PhD

Udvikling af mikrofluidic system til aktivering og måling af antigen specifik cellemedieret immun respons
15/12/2011 → 02/06/2016
Project: PhD

Development of safer non-viral gene transfection vectors
Caviglia, C., Emnéus, J., Andresen, T. L., Rozlosnik, N., Guiseppi-Elie, A. & Ruzgas, T.
01/05/2011 → 12/12/2014
Project: PhD

3D carbon-based electrodes for biofuel cells
01/08/2010 → 19/02/2014
Project: PhD

Construction of nanomachines for measuring molecular events inside living cells
Ilieva, M., Dufva, M., Emnéus, J., Gjetting, T., Clausen, C. & Serrano, A. M.
01/05/2010 → 15/08/2013
Project: PhD

Development of Biomimetic Membrane Array Sensors
Real-time monitoring of stem cell differentiation in brain tissue using microfluidic on-line culture systems
Shah, F. J., Emnéus, J., Dufva, M. & Heiskanen, A.
01/02/2010 → 14/04/2017
Project: PhD

Development of Mechanical Biosensor for Metabolomics
Quan, X., Boisen, A., Heiskanen, A., Tenje, M., Emnéus, J., Ruzgas, T. & Thundat, T. G.
01/02/2010 → 26/11/2013
Project: PhD

Integrated platform for studying cellular dynamics using 3D Nanosensors
01/06/2009 → 20/09/2012
Project: PhD

Biocompatibility studies of cells grown in close proximity of nanostructures in cell culture chips
01/07/2008 → 14/12/2011
Project: PhD

Simulation of the Cystic Fibrosis patient airway habitats using microfluidic devices
01/04/2008 → 23/11/2011
Project: PhD

Development of a LabChip system for point of care blood analysis
01/02/2008 → 30/09/2011
Project: PhD

Design, fabrication and testing of support structures for biomimetic water filters
Vogel, J., Emnéus, J., Geschke, O., Hélix-Nielsen, C., Kristensen, A., Thomsen, P. T. & Verpoorte, E. M. J.
01/01/2008 → 20/04/2011
Project: PhD

Development of microfluidic water purification device
Pszon-Bartosz, K. J., Emnéus, J., Geschke, O., Hélix-Nielsen, C., Dufva, M., Kutchinsky, J. & Le Gac, S.
01/01/2008 → 22/03/2012
Project: PhD

Microarray for detecting avian influenza (Aiv) suitable for Lab-on-a-Chip applications
01/01/2008 → 13/04/2011
Project: PhD

Development of Supported biomimetic membranes for insertion of aquaporin protein water channels for novel water filtration applications
01/11/2007 → 19/01/2011
Project: PhD
Activities:

Talk about "Working with Gender in the Network of Excellence Nano2life" Presented at Women Shaping Science
Emnéus, J. (Speaker)
5 Jun 2008 → 7 Jun 2008
Activity: Talks and presentations › Conference presentations