Jenny Emnéus - DTU Orbit (12/07/2017)

Emnéus, Jenny

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Center for Intelligent Drug Delivery and Sensing Using Microcontainers and Nanomechanics

Department of Micro- and Nanotechnology - Professor

Bioanalytics

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
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

Novel Nanostructured Electrodes Obtained by Pyrolysis of Composite Polymeric Materials
6 p.
Publication: Research - peer-review › Journal article – Annual report year: 2015

On-line monitoring of 2D and 3D cell cultures: electrode configurations for impedance based sensors
Publication: Research - peer-review › Conference abstract for conference – 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

A multiplexed electrical impedance-based device for bioengineering applications
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

An innovative EIS based 3D printed conductometer
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Conducting 3D-carbon scaffolds induce spontaneous differentiation of human neural stem cells and measure neurotransmitter release in real-time
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

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

Real-time multi-parameter cell-based analysis platform: towards new tools for biomedical research
Publication: Research › Ph.D. thesis – Annual report year: 2014

Real-time multiparameter monitoring of cellular dynamics: an automated microfluidic electrochemical analysis platform
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Redox activity monitoring in intact barley aleurone cells during gibberellic acid induced programmed cell death
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 bioimpedance-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

Conducting pyrolysed carbon scaffold 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 engineering applications
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
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
Publication: Research - peer-review › Journal article – Annual report year: 2013

Electrochemical monitoring of reducing capacity during programmed cell death of plant tissue

Molecular beacon nanosensors for live cell detection and tracking differentiation and reprogramming
Publication: Research › Ph.D. thesis – Annual report year: 2013

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

Novel scalable silicone elastomer and poly(2-hydroxyethyl methacrylate) (PHEMA) composite materials for tissue engineering and drug delivery applications
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Poly(Dimethylsiloxane) (PDMS) Affects Gene Expression in PC12 Cells Differentiating into Neuronal-Like Cells
Publication: Research - peer-review › Journal article – Annual report year: 2012

Pyrolysed carbon resonators: Fabrication and characterization

Pyrolysed Carbon Scaffold for Bioelectrochemistry in Life Science
Publication: Research › Ph.D. thesis – Annual report year: 2014

Real-time impedimetric monitoring of Poly(ethyleneimine)-mediated cytotoxicity during gene transfection
Caviglia, C., Carminati, M., Heiskanen, A., Ferrari, G., Sampietro, M., Andresen, T. L. & Emnéus, J. 2013 Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Simulation of the Cystic Fibrosis patient airway habitats using microfluidic devices
Publication: Research › 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

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**

**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 Hybrid Sensor for Heavy Metal Ion Detection

Publication: Research - peer-review › Conference article – Annual report year: 2008

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

Publicaiton: 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 › Article in proceedings – 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 → 15/06/2016
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
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