Line Hagner Nielsen - DTU Orbit (16/10/2018)

Nielsen, Line Hagner
lihan@nanotech.dtu.dk

Department of Applied Mathematics and Computer Science
Department of Micro- and Nanotechnology - Researcher
Nanoprobes
Center for Intelligent Drug Delivery and Sensing Using Microcontainers and Nanomechanics

Research outputs:

Preparation and Characterization of an Oral Vaccine Formulation Using Electrosprayed Chitosan Microparticles
Research output: Research - peer-review › Journal article – Annual report year: 2018

Cellular effects and delivery propensity of penetratin is influenced by conjugation to parathyroid hormone fragment 1-34 in synergy with pH
Kristensen, M., Nielsen, L. H., Zor, K., Boisen, A., Christensen, M. V., Berthelsen, J. & Mørck Nielsen, H. 2018 In : Bioconjugate Chemistry. 29, 2, p. 371-381
Research output: Research - peer-review › Journal article – Annual report year: 2018

Development of electrosprayed mucoadhesive chitosan microparticles
Moreno, J. A. S., Mendes, A. C., Stephansen, K., Engwer, C., Goycoolea, F. M., Boisen, A., Nielsen, L. H. & Chronakis, I. S. 2018 In : Carbohydrate Polymers. 190, p. 240-247
Research output: Research - peer-review › Journal article – Annual report year: 2018

Drug loaded biodegradable polymer microneedles fabricated by hot embossing
Research output: Research - peer-review › Journal article – Annual report year: 2018

Effects of water-absorption and thermal drift on a polymeric photonic crystal slab sensor
Research output: Research - peer-review › Journal article – Annual report year: 2018

Microfabricated devices for oral drug delivery
Research output: Research - peer-review › Journal article – Annual report year: 2018

Spray dried cubosomes with ovalbumin and Quil-A as a nanoparticulate dry powder vaccine formulation
Research output: Research - peer-review › Journal article – Annual report year: 2018

Animal models for evaluation of oral delivery of biopharmaceuticals
Research output: Research - peer-review › Journal article – Annual report year: 2017

Ciprofloxacin-loaded sodium alginate/poly (lactic-co-glycolic acid) electrospun fibrous mats for wound healing
Research output: Research - peer-review › Journal article – Annual report year: 2017
Microcontainers - an oral drug delivery system for poorly soluble drugs
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Microcontainers as an oral drug delivery system
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Microcontainers as an Oral Drug Delivery System
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Polymeric microcontainers improve oral bioavailability of furosemide
Research output: Research - peer-review › Journal article – Annual report year: 2016

Spray Drying of Cubosomes for Oral Vaccine Delivery
Research output: Research - peer-review › Poster – Annual report year: 2016

Triple co-culture cell model as an in vitro model for oral particulate vaccine systems
Research output: Research - peer-review › Poster – Annual report year: 2016

Triple co-culture cell model as an in vitro model for oral particulate vaccine systems
Research output: Research - peer-review › Poster – Annual report year: 2016

Triple co-culture cell model as an in vitro model for oral particulate vaccine systems
Research output: Research - peer-review › Poster – Annual report year: 2016

Microcontainers - an oral drug delivery system for poorly soluble drugs
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Microcontainers as an oral drug delivery system
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Microcontainers improve oral bioavailability of furosemide
Research output: Research - peer-review › Poster – Annual report year: 2015

Microcontainers improve oral bioavailability of furosemide
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

pH-triggered drug release from biodegradable microwells for oral drug delivery
Polymeric microcontainers improve oral bioavailability of a poorly soluble drug  
Research output: Research - peer-review › Journal article – Annual report year: 2015

Spray drying of cubosomes for oral vaccine delivery  
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Stabilisation of amorphous furosemide increases the oral drug bioavailability in rats  
Research output: Research - peer-review › Journal article – Annual report year: 2015

Biorientation dissolution behavior of amorphous furosemide forms as determined by UV imaging and Raman spectroscopy.  
Research output: Research - peer-review › Poster – Annual report year: 2014

Drug Formulations for Microcontainers  
Nielsen, L. H. 2014 Copenhagen: University of Copenhagen.  
Research output: Research › Ph.D. thesis – Annual report year: 2014

In vitro characterization of microcontainers as an oral drug delivery system.  
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Microcontainers, an innovative oral drug delivery system for poorly soluble drugs  
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Microcontainers for Unidirectional Release in the Upper Intestine  
Proceedings of the 13th European Symposium on Controlled Drug Delivery.  
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Microfabricated containers for oral drug delivery  
Refining stability and dissolution rate of amorphous drug formulations
Research output: Research - peer-review › Journal article – Annual report year: 2014

A slow cooling rate of indomethacin melt spatially confined in microcontainers increases the physical stability of the amorphous drug without influencing its biorelevant dissolution behaviour
Research output: Research - peer-review › Journal article – Annual report year: 2013

Biodegradable microcontainers as an oral drug delivery system for poorly soluble drugs
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Biorelevant characterisation of amorphous furosemide salt indicates conversion to a furosemide hydrate during dissolution
Research output: Research - peer-review › Journal article – Annual report year: 2013

Preparation of an amorphous sodium furosemide salt improves solubility and dissolution rate and leads to a faster Tmax after oral dosing to rats
Research output: Research - peer-review › Journal article – Annual report year: 2013

Spray coating of microcontainers with eudragit using ferromagnetic shadow masks for controlled oral release of poorly water soluble drugs.
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Addition of hydroxypropyl methylcellulose to furosemide increases physical stability of the amorphous form of furosemide
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Amorphous furosemide salt exhibits higher dissolution rate and stability compared to amorphous furosemide acid
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2012
Amorphous furosemide salt exhibits higher dissolution rate and stability compared to amorphous furosemide acid
Research output: Research - peer-review » Conference abstract for conference – Annual report year: 2012

Amorphous furosemide salt exhibits higher solubility and dissolution rate compared to amorphous furosemide acid
Research output: Research - peer-review » Conference abstract for conference – Annual report year: 2012

Dissolution characteristics of amorphous furosemide salt
Research output: Research - peer-review » Conference abstract for conference – Annual report year: 2012

Dissolution Rate of Spray Dried Amorphous Salts of Furosemide and HPMC in Biorelevant Dissolution Media Obtained by µ-diss Profiler
Research output: Research - peer-review » Paper – Annual report year: 2012

Higher apparent solubility and faster dissolution rate of amorphous furosemide salt leads to faster Tmax after oral dosing in rats compared to amorphous and crystalline furosemide acid
Research output: Research - peer-review » Conference abstract for conference – Annual report year: 2012

Improved in vitro properties of furosemide through utilisation of the amorphous sodium salt
Research output: Research - peer-review » Conference abstract for conference – Annual report year: 2012

Investigations by Raman Microscopy if Spatial Confinement of Amorphous Indomethacin Can Lead to Increased Stability
Research output: Research - peer-review » Paper – Annual report year: 2012

Physical stability and dissolution of spatially confined amorphous indomethacin: The effect of different heating and cooling rates
Research output: Research - peer-review » Conference abstract for conference – Annual report year: 2012

Preparation of amorphous furosemide salt formulations by spray drying
Research output: Research - peer-review » Conference abstract for conference – Annual report year: 2012

Spatial confinement can lead to increased stability of amorphous indomethacin
Research output: Research - peer-review » Journal article – Annual report year: 2012

Stability of amorphous drug formulations in microcontainers
Research output: Research - peer-review » Conference abstract for conference – Annual report year: 2012

Various heating and cooling conditions influence the release of amorphous indomethacin from microcontainers
Research output: Research - peer-review » Conference abstract for conference – Annual report year: 2012

Spatial confinement of amorphous indomethacin increases stability
Spatial confinement of amorphous indomethacin increases stability
Research output: Research - peer-review › Poster – Annual report year: 2011

Stability, liposome interaction, and in vivo pharmacology of ghrelin in liposomal suspensions
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2010

Projects:

**3D printing of micro-container for oral delivery of probiotics**
Chang, T., Boisen, A., Hwu, E. T. & Nielsen, L. H.
Samfinansieret - Andet
01/09/2018 → 31/08/2021
Project: PhD

**Evaluating microcontainers for oral delivery of probiotics**
Christfort, J. F., Boisen, A., Nielsen, L. H. & Zor, K.
Samfinansieret - Andet
01/09/2018 → 31/08/2021
Project: PhD

**Microcontainers for Oral Delivery of Probiotics**
Kamguyan, K., Boisen, A., Nielsen, L. H. & Zor, K.
Fonde
15/06/2018 → 14/06/2021
Project: PhD

**Microcontainers for oral drug delivery**
Hansen, S. E., Boisen, A. & Nielsen, L. H.
Samfinansieret - Andet
01/02/2018 → 31/01/2021
Project: PhD

**Drug transport in in vitro intestine models**
Jepsen, M. L., Dufva, M., Boisen, A. & Nielsen, L. H.
Grundforskningsfonden
15/12/2016 → 14/12/2019
Project: PhD

**Loading of microcontainers for oral drug delivery**
Mazzoni, C., Boisen, A. & Nielsen, L. H.
Samfinansieret - Andet
15/01/2016 → 14/01/2019
Project: PhD

**Microcontainers for oral vaccine delivery**
von Halling Laier, C., Boisen, A., Nielsen, L. H., Rades, T., Larsen, N. B., Christensen, D. & Lavelle, E.
Samfinansieret - Andet
01/09/2015 → 31/08/2018
Project: PhD
Microcontainers for Oral Vaccine Delivery
Nielsen, L. H.
01/07/2014 → 30/06/2017
Project: Research

Activities:

3D printed system for testing intestinal drug transport
Jepsen, M. L. (Other), Nielsen, L. H. (Other), Almdal, K. (Other), Boisen, A. (Other), Dufva, M. (Other)
21 Mar 2018
Activity: Talks and presentations › Conference presentations

Loading of poorly soluble drugs by supercritical CO2 impregnation into microcontainers for oral drug delivery
Mazzoni, C. (Other), Antalaki, A. (Other), Jacobsen, R. D. (Other), Mortensen, J. (Other), Tentor, F. (Other), Slipets, R. (Other), Ilchenko, O. (Other), Keller, S. S. (Other), Nielsen, L. H. (Other), Boisen, A. (Other)
19 Mar 2018 → 22 Mar 2018
Activity: Talks and presentations › Conference presentations

3D printed system for based on hydrogels for drug transport
Jepsen, M. L. (Other), Nielsen, L. H. (Other), Almdal, K. (Other), Boisen, A. (Other), Dufva, M. (Other)
29 Jan 2018
Activity: Talks and presentations › Conference presentations

Loading of poorly soluble drugs by supercritical CO2 impregnation into microcontainers for oral drug delivery
Mazzoni, C. (Speaker), Antalaki, A. (Other), Jacobsen, R. D. (Other), Mortensen, J. (Other), Tentor, F. (Other), Slipets, R. (Other), Ilchenko, O. (Other), Keller, S. S. (Other), Nielsen, L. H. (Other), Boisen, A. (Other)
29 Jan 2018 → 31 Jan 2018
Activity: Talks and presentations › Conference presentations

Microcontainers for oral vaccine delivery
Nielsen, L. H. (Guest lecturer)
29 Jan 2018 → 31 Jan 2018
Activity: Talks and presentations › Conference presentations

Microcontainers for oral vaccine delivery
Nielsen, L. H. (Guest lecturer)
18 Sep 2017 → 22 Sep 2017
Activity: Talks and presentations › Conference presentations

Electrospraying Chitosan Particles for Oral Vaccine Delivery
Nielsen, L. H. (Guest lecturer)
16 Jul 2017 → 19 Jul 2017
Activity: Talks and presentations › Conference presentations

Microcontainers as an Oral Drug Delivery System
Nielsen, L. H. (Guest lecturer)
16 Jul 2017 → 19 Jul 2017
Activity: Talks and presentations › Conference presentations