

## Recently published doctoral theses

**Title** **Role of excipients in moisture sorption and physical stability of solid pharmaceutical formulations**  
**Author** Sari Airaksinen  
**Key words** Excipients, granulation, polymorphism, solid formulation, stability  
**Supervisors** Jukka Rantanen and Jouko Yliruusi  
**Institution** University of Helsinki, Division of Pharmaceutical Technology, Faculty of Pharmacy, Helsinki, Finland  
**Language** English  
**Price** Free of charge  
**Address for ordering** Dr. Sari Airaksinen, University of Helsinki, Division of Pharmaceutical Technology, Faculty of Pharmacy, P.O.Box 56, Helsinki, FI-00014, Finland  
**Fax/e-mail** sari.airaksinen@helsinki.fi

**Title** **Local drug delivery to prevent restenosis**  
**Author** Peter Karl Josef Birkenhauer  
**Key words** Biodegradable polymers, local delivery, microparticles, sustained drug release  
**Supervisor** Hans P. Merkle  
**Institution** ETH Zuerich, Institute of Pharmaceutical Sciences, Drug Formulation and Delivery, Zurich, Switzerland  
**Language** English  
**Price** USD 40.00  
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**Fax/e-mail** +41-44-633 1314  
 Christina.brun@pharma.ethz.ch

**Title** **Release of bioactive BMP from dextran-derived microspheres: A novel delivery concept.**  
**Author** Fa-ming Chen  
**Key words** Drug delivery, drug carriers, gels, local delivery  
**Supervisor** Yan Jin  
**Institution** Research and Development Center for Tissue Engineering, Department of Oral Histology and Pathology, College of Stomatology, Fourth Military Medical University  
**Language** English  
**Price** Unknown  
**Address for ordering** **International Journal of Pharmaceutics, 2006, 307: 23-32.**  
**Fax/e-mail** Not available

**Title** **Raman spectroscopy and environmental scanning electron microscopy-characterization of pharmaceutical excipients**  
**Author** Petra Fechner  
**Key words** Starch, cellulose, extrusion, gels, environmental scanning electron microscopy, raman spectroscopy  
**Supervisor** Reinhard Neubert  
**Institution** Martin-Luther University, Dept of Pharmaceutical Technology & Biopharmacy, Halle-Wittenberg, Germany  
**Language** German  
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**Fax/e-mail** +49 345 5527029  
 neubert@pharmazie.uni-halle.de

**Title** **Comparison of properties and structures of biplane and biconvex minitables**  
**Author** Natascha Fleischmann  
**Key words** Minitablets, microcrystalline cellulose, compression, particle deformation, internal structure  
**Supervisor** Jobst B. Mielck  
**Institution** University of Hamburg, Institute of Pharmacy, Dept of Pharmaceutical Technology, Hamburg, Germany  
**Language** German  
**Price** Free of charge  
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**Fax/e-mail** +49 40 42838 6573  
 mielck@chemie.uni-hamburg.de

**Title** **A biochemistic and physico-chemistic study of the oxidative stress on the function of erythrocytes membranes.**  
**Author** LAHET Jean Jacques  
**Key words** Membranes, molecular pharmacology, clinical investigation, drug release mechanism, in vitro assay, in vivo assay.  
**Supervisor** Luc Rochette  
**Institution** Institute of Medicine and Pharmacy. « Laboratoire de Physiologie et Pharmacologie Cardio-vasculaire Expérimentales », DIJON, France  
**Language** French  
**Price** Unknown  
**Address for ordering** Lahet Jean Jacques, Service Pharmacie, Centre Hospitalier Jean Monnet, 3 avenue Robert Schuman, 88021 Epinal

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Title **Investigation on intradermal delivery of drug powder by needle-free injection**

Author Katja Lahm

Key words Injectables, parenteral delivery, powder technology

Supervisor Geoffrey Lee

Institution Friedrich-Alexander University, Erlangen-Nürnberg, D

Language English

Price Free of charge

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Fax/e-mail +49 9131 8529545  
www.pharmtech.uni-erlangen.de

Title **Preparation and evaluation of zinc sulphate matrices for the individual clinical therapy of Wilson's disease**

Author Judit Nagy

Key words Matrices, capsules, drug release mechanism, mathematical modelling, in vitro assay, in vivo assay

Supervisor Romána Zelkó

Institution Semmelweis University, University Pharmacy Department of Pharmacy Administration

Language English

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Title **Research on the stability of therapeutical antibody-cytokine-constructs huKS-IL 2 and hu.14.18-IL2**

Author Katrin Schimanski

Key words Parenteral delivery, lyophilization, proteins, stability, antibodies

Supervisor Gerhard Winter

Institution Ludwig-Maximilians-University, Department for Pharmaceutical Technology and Biopharmaceutics, Munich, Germany

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Title **Improvement of Pharmaceutical properties of protein drugs by branched  $\beta$ -cyclodextrin**

Author Sumitra Tavornvipas

Key words Cyclodextrin, proteins, physical pharmacy, spectroscopy, stabilisation, thermal analysis

Supervisor Kaneto Uekama

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Language Japanese

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Title **Validation of radiopharmaceuticals in pharmaceutical formulation development**

Author Mariella Terán

Key words Dissolution, drug delivery, in vitro/in vivo correlation, labelling, stability, tablets

Supervisors Eduardo Savio (University of the Republic of Uruguay) and Malcolm Frier (University of Nottingham, U.K)

Institution University of the Republic of Uruguay Faculty of chemistry, Montevideo, Uruguay

Language Spanish

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Fax/e-mail + 5982-924 19 06 / mteran@fq.edu.uy

Title **Evaluation of mannosylated dendrimer/ $\alpha$ -cyclodextrin conjugates as gene transfer carriers and elucidation of enhancement mechanisms**

Author Koki Wada

Key words Cyclodextrin, synthetic polymers, gene therapy, drug carriers, drug delivery, DNA

Supervisor Kaneto Uekama

Institution Kumamoto University, Japan

Language Japanese

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Address for ordering 5-1 Oe-honmachi, Kumamoto 862-0973, Japan

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Title **On the mechanism for cellular delivery of biomacromolecular cargoes using cell penetrating peptides**

Author Kathrin Margret Weller

Key words Biological barriers, drug carriers, drug delivery, lipids, membranes, peptides

Supervisor Hans P. Merkle

Institution ETH Zuerich, Institute of Pharmaceutical Sciences, Drug Formulation and Delivery, Zurich, Switzerland

Language English

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Title **Evaluation, validation and application of an analytical scheme for N-glycosylation analysis used for mammalian cell production processes**

Author Stefan Zietze

Key words Biotechnology, proteins, analytical, chemistry, HPLC, statistics

Supervisor Rainer H. Müller

Institution Freie Universität Berlin, Department of Pharmaceutical Technology, Biotechnology and Quality Management, Berlin, Germany

Language English

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