

## Recently published doctoral theses

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**Title** Electroanalysis of timelotem and lopirazepam  
**Author** Mohammad Abu-Khurmah  
**Key words** Electrochemistry  
**Supervisor** Herbert Oelschläger  
**Institution** University of Frankfurt-am-Main, Germany  
**Language** German  
**Price** USD 141.00  
**Address for ordering** Shaker Verlag GmbH, Hubertusstr. 40, D-52064 Aachen, Germany. Fax: +49 241 406354

**Title** Multiple compression in tableting technology  
**Author** Felix Akande  
**Key words** Tablets, powder cupracterisation  
**Supervisor** James Ford  
**Institution** Liverpool John Moores University, Liverpool, UK  
**Language** English  
**Price** Free of charge  
**Address for ordering** The Learning and Resource Centre, Liverpool John Moores University, Byrom Street, Liverpool L3 3AF, UK. Fax: +44 151 2072620

**Title** Oleogels containing complex surfactants as bath preparations—presentation, characterisation and a contribution to knowledge of systems with spontaneous vesicle formation  
**Author** Günter Beck  
**Key words** Lipids, gels, surfactants, thermal analysis, rheology  
**Supervisors** Eberhard Nürnberg  
**Institution** Friedrich-Alexander University, Erlangen-Nürnberg, Germany  
**Language** German  
**Price** Free of charge  
**Address for ordering** Professor E. Nürnberg, Lehrstuhl für Pharmazeutische Technologie, Cauerstr. 4, D-91058 Erlangen, Germany. Fax: +49 9131 859545

**Title** Study of the Spanish squill *Urginea maritima* aggregate  
**Author** Julia Inmaculada Fernández Belloso  
**Key words** HPLC, natural products  
**Supervisor** Margarita Fernández Fernández  
**Institution** University of Navarra, Pamplona, Spain  
**Language** Spanish  
**Price** Free of charge  
**Address for ordering** C/Landazábal, n°7, 3°B. E-31600 Burlada, Navarra, Spain. Tel.: +34 48 132100

**Title** Supramolecular biovector and antisense strategy: loading and protection of oligonucleotides, study of their intracellular fate and antisense activity  
**Author** Myriam Berton  
**Key words** Cytotoxicity, cell culture  
**Supervisor** G. Favre  
**Institution** University Paris XI, Paris, France  
**Language** French

**Price** USD 40.00  
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**Title** Protective role of interleukine 1  $\beta$  and the agen leading to its formation in vivo against doxorubicine toxicity  
**Author** Ernest Bizi  
**Key words** —  
**Supervisor** S. Orbach  
**Institution** University Paris XI, Paris, France  
**Language** French  
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**Title** Development and application of chemometrical strategies in QSAR  
**Author** Raffaella Boggia  
**Key words** Computer simulation, molecular modelling, statistics  
**Supervisor** Michele Forina  
**Institution** University of Genova, Genova, Italy  
**Language** Italian  
**Price** Free of charge  
**Address for ordering** Istituto di Anelisi e Tecnologia, Farmaceutische e Alimentari-Univ. di Genova, Via Brigata Salerno, I-Genova 16147, Italy

**Title** Protective effects of calcium antagonists on ethanol-induced liver injury  
**Author** Almudena Cobreros Bordenave  
**Key words** Pharmacology  
**Supervisor** Eurne Cenarruzabeitia Sagarminaga  
**Institution** University of Navarra, Pamplona, Spain  
**Language** Spanish  
**Price** Free of charge  
**Address for ordering** Ps. de Zubiaurre, n°13, 1° izda, E-20013 San Sebastián, Guipúzcoa, Spain. Tel.: +34 43 292170

**Title** Comparative pharmacokinetic investigations of percutaneous absorption and cutaneous metabolism of steroids and steroid like compounds  
**Author** Olaf Brandt  
**Key words** Biopharmaceutics, drug metabolism, drug targeting, prodrugs  
**Supervisor** Hans-Hubert Borchert  
**Institution** Institute of Pharmacy, Humboldt-University of Berlin, Germany  
**Language** German  
**Price** —  
**Address for ordering** Humboldt-Universität zu Berlin, Universitätsbibliothek, Hochschulschriften, Dorotheenstrasse 27, D-10117 Berlin, Germany

- Title** Antigen delivery systems for nasal immunisation against *Bordetella pertussis*
- Author** Edward Cahill
- Key words** —
- Supervisors** Lisbeth Illum and Stanley S. Davis
- Institution** University of Nottingham, Nottingham, UK
- Language** English
- Price** —
- Address for ordering** Professor Stanley S. Davis, Department of Pharmaceutical Sciences, University of Nottingham, University Park, Nottingham NG7 2RD, UK. Fax: +44 1159 422131
- Title** New technologies of sustained release dosage forms: effect of compritol 888 ATO<sup>R</sup>
- Author** Emmanuel Cature
- Key words** Coating, drug release mechanism, lipids, process optimization
- Supervisor** Joseph Joachim
- Institution** Université de la Méditerranée, Aix-MarseilleII, Marseille, France
- Language** French
- Price** USD 60.00
- Address for ordering** Professor Joseph Joachim, Faculté de Pharmacie, Lab. de Pharmacie, Galénique, 27, bd Jean-Moulin, F-13385 Marseille Cédex 05, France. Fax: +33 91 802612
- Title** Protection against radicalar substances of cardiac greffons: interest with lactobionate, adenine and adenosine
- Author** Catherine Charloux
- Key words** —
- Supervisor** A. Astier
- Institution** University Paris XI, Paris, France
- Language** French
- Price** USD 40.00
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- Title** Spectroscopic characteristics of glisentide, solid phases and complexes with cyclodextrins
- Author** Maria Aránzazu Zornoza Cebeiro
- Key words** Dissolution, polymorphism, spectroscopy, cyclodextrin
- Supervisors** Miguel Sánchez González and Carmen Martín Bachiller
- Institution** University of Navarra, Pamplona, Spain
- Language** Spanish
- Price** Free of charge
- Address for ordering** Dep. de Química y Edafología (Sección Química Física), Edificio de Investigación, Universidad de Navarra, E-31080 Pamplona, Navarra, Spain. Fax: +34 48 425649
- Title** Development of a topical formulation of sodium diclofenac. Modification of the percutaneous penetration of the drug
- Author** Adriana Maria Arellano Díaz
- Key words** Percutaneous absorption, surfactants
- Supervisor** Pilar Ygartua Ayerra
- Institution** University of Navarra, Pamplona, Spain
- Language** Spanish
- Price** Free of charge
- Address for ordering** Dep. de Farmacia y Tecnología Farmacéutica, Edificio de Ciencias, Universidad de Navarra, E-31080 Pamplona Navarra, Spain. Fax: +34 48 425649

- Title** In vitro and in vivo evaluation of long circulating liposomes encapsulating 2',3'-dideoxyinosine
- Author** Satish Dipali
- Key words** Liposomes, sustained drug release, stability, pharmacokinetics
- Supervisors** Guru Betageri
- Institution** Auburn University, Auburn, Alabama, USA
- Language** English
- Price** Softback copy USD 55.00/Hardback copy USD 66.50
- Address for ordering** University Microfilms, (UMI), 300 North Zeeb Road, PO 1346, Ann Arbor, Michigan 48106-1346, USA. Fax: +1 313 7614700
- Title** A new O/O emulsion-solven-evaporation method for peroral slow release products based on ethylcellulose-microspheres
- Author** Gabriele Evers
- Key words** Microspheres, encapsulation, polymers, oral formulation
- Supervisor** Thomas Kissel
- Institution** Philipps-University, Marburg, Germany
- Language** German
- Price** DM 72.00
- Address for ordering** Cuvillier Verlag Göttingen, Nonnenstieg 8, D-37075 Göttingen, Germany. Fax: +49 551 5472421
- Title** Formulation studies on human insulin-like growth factor I
- Author** Jonas Fransson
- Key words** Proteins, stabilisation, stability, injectables, kinetics
- Supervisors** Ebba Florin-Robertsson
- Institution** Department of Pharmaceutics, Uppsala University, Uppsala, Sweden
- Language** English
- Price** Free of charge
- Address for ordering** Department of Pharmaceutics, BMC, Box 580, S-751 23 Uppsala, Sweden. Fax: +46 18 174003
- Title** Purification and characterization of a Na<sup>+</sup>/K<sup>+</sup>-ATPase inhibitor from *Penicillium lagena* and optimization of the growing factors which induce the production of Na<sup>+</sup>/K<sup>+</sup>-ATPase inhibitors in several microorganismus
- Author** Edda Frerichs
- Key words** —
- Supervisor** Martin Luckner
- Institution** Martin Luther University, Faculty of Pharmacy, Halle-Wittenberg, Germany
- Language** German
- Price** —
- Address for ordering** Martin-Luther-Universität, Fachbereich Pharmazie, D-06120 Halle (Saale), Germany. Fax: +49 345 5527022
- Title** Oral colon-specific drug delivery: biodegradable hydrogel system and colonic permeability characteristics
- Author** Hamidreza Ghandehari
- Key words** Hydrogels, biodegradable polymers, polymer characterization
- Supervisor** Jindrich Kopecek
- Institution** University of Utah, Salt Lake City, Utah, USA
- Language** English
- Price** USD 20.00
- Address for ordering** University of Utah, CCCD, Biomedical Polymers Building, Rm. # 205, Salt Lake City, Utah 84112, USA. Fax: +1 801 5817848

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| <p><b>Title</b>            <b>Some factors influencing the effects of surface active agents on membranes</b></p> <p><b>Author</b>        Larissa Gould</p> <p><b>Key words</b>   Penetration enhancement, surfactants, cell culture, toxicity</p> <p><b>Supervisors</b> Gary Martin and Alison Lansley</p> <p><b>Institution</b>   King's College London, London, UK</p> <p><b>Language</b>     English</p> <p><b>Price</b>          —</p> <p><b>Address for ordering</b> Dr Gary Martin, Department of Pharmacy, King's College London, Chelsea Campus, Manresa Road, London SW3 6LX, UK. Fax: +44 171 3515307</p>  | <p><b>Address for ordering</b> Professor Kurt Heinz Bauer, Albert-Ludwigs-Universität, Pharmazeut. Institut, Pharmazeut. Technologie, Hermann-Herder-Str. 9, D-79104 Freiburg i. Br., Germany. Fax: +49 761 2036366 or 2036351</p>   |
| <p><b>Title</b>            <b>Cell culture sheets to study nasal peptide metabolism: The human nasal RPMI 2650 cell line model</b></p> <p><b>Author</b>        Peter Hagen</p> <p><b>Key words</b>   Nasal absorption, metabolism, biological barriers, cell culture</p> <p><b>Supervisor</b>   Hans Peter Merkle</p> <p><b>Institution</b>   Swiss Federal Institute of Technology, (ETH), Department of Pharmacy, Zurich, Switzerland</p> <p><b>Language</b>     English</p> <p><b>Price</b>          —</p> <p><b>Address for ordering</b> Peter Hagen, Landstr. 4, CH-5430 Wettingen, Switzerland</p>   | <p><b>Title</b>            <b>Vascular interaction of endothelin-1 and thromboxane A<sub>2</sub> in the pathogenesis of myocardial ischemia and reperfusion. A<sup>31</sup> phosphorus magnetic resonance spectroscopy study in the isolated rat heart model</b></p> <p><b>Author</b>        Pius Hornstein</p> <p><b>Key words</b>   NMR, pharmacology, immunoassay, drug release mechanism</p> <p><b>Supervisors</b> Peter Buser</p> <p><b>Institution</b>   Division of cardiology, University Hospital, Basel, Switzerland</p> <p><b>Language</b>     English</p> <p><b>Price</b>          USD 20.00</p> <p><b>Address for ordering</b> Dr Pius Hornstein, Theodorsgraben 40, CH-4058 Basel, Switzerland</p> |
| <p><b>Title</b>            <b>Development and characterization of surfactant containing multicomponent systems for ocular use</b></p> <p><b>Author</b>        Annegret Hasse</p> <p><b>Key words</b>   Microemulsions, drug release mechanism, biocompatibility</p> <p><b>Supervisors</b> S. Keipert</p> <p><b>Institution</b>   Institute of Pharmacy, Humboldt-University, Berlin, Germany</p> <p><b>Language</b>     German</p> <p><b>Price</b>          Free of charge</p> <p><b>Address for ordering</b> Humboldt-Universität zu Berlin, Universitätsbibliothek Hochschulschriften, Dorotheenstrasse 27, D-10117 Berlin, Germany. Fax: +49 30 4674243</p>                                   | <p><b>Title</b>            <b>Mucoadhesive drug delivery systems for buccal absorption. Characterization of polymeric materials and evaluation of bioadhesive devices</b></p> <p><b>Author</b>        Yves Jacques</p> <p><b>Key words</b>   Bioadhesion, buccal mucosa, mucoadhesive polymers</p> <p><b>Supervisor</b>   Pierre Buri</p> <p><b>Institution</b>   School of Pharmacy, University of Geneva, Geneva, Switzerland</p> <p><b>Language</b>     English</p> <p><b>Price</b>          Free of charge</p> <p><b>Address for ordering</b> Yves Jacques, Pharmapeptides, Campus Universitaire, F-74166 Archamps, France</p>   |
| <p><b>Title</b>            <b>Fat emulsions based on structured lipids as drug delivery systems for intravenous use</b></p> <p><b>Author</b>        Hanne Hedeman</p> <p><b>Key words</b>   Emulsions, lipids, stability, drug carriers, animal study</p> <p><b>Supervisor</b>   Sven Frokjaer</p> <p><b>Institution</b>   Department of Pharmaceutics, Royal Danish School of Pharmacy, Copenhagen, Denmark</p> <p><b>Language</b>     English</p> <p><b>Price</b>          Free of charge</p> <p><b>Address for ordering</b> Professor Sven Frokjaer, Departement of Pharmaceutics, Royal Danish School of Pharmacy, Universitetsparken 2, DK-2100 Copenhagen, Denmark. Fax: +45 36 440171</p> | <p><b>Title</b>            <b>Physico-chemical properties of the milk fat globule: membrane studies of selected fractions and components</b></p> <p><b>Author</b>        Dorte Kristensen</p> <p><b>Key words</b>   Lipids, membranes, surface chemistry, proteins, rheology</p> <p><b>Supervisor</b>   Kulbir Singh Birdi</p> <p><b>Institution</b>   Royal Danish School of Pharmacy, Copenhagen, Denmark</p> <p><b>Language</b>     English</p> <p><b>Price</b>          —</p> <p><b>Address for ordering compl.doc.</b> Department of Analytical and Pharmaceutical Chemistry, The Royal Danish School of Pharmacy, Universitetsparken 2, DK-2100 Copenhagen, Denmark. Fax: +45 36 440171</p>                |
| <p><b>Title</b>            <b>Experiments to regulate the proenkephalin gene by neurotransmitter in preliminarily cultivated astrocytes and meningeal fibroblasts of the rat</b></p> <p><b>Author</b>        Brigitte Hildebrand</p> <p><b>Key words</b>   Regulation, proenkephalin gene, meningeal fibroblasts</p> <p><b>Supervisors</b> Dieter Meyer and Kurt Heinz Bauer</p> <p><b>Institution</b>   Albert-Ludwigs-University, Freiburg i. Br., Germany</p> <p><b>Language</b>     German</p> <p><b>Price</b>          On request</p>   | <p><b>Title</b>            <b>Allosteric modulators of muscarinic acetylcholine receptors—Study of the stability of UNO and DUO compounds</b></p> <p><b>Author</b>        Elisabeth Inkmann</p> <p><b>Key words</b>   Spectroscopy, NMR, molecular modelling</p> <p><b>Supervisor</b>   Ulrike Hozgrabe</p> <p><b>Institution</b>   Pharmaceutical Institute, University of Bonn, Bonn, Germany</p> <p><b>Language</b>     German</p> <p><b>Price</b>          —</p> <p><b>Address for ordering</b> Professor U. Hozgrabe, Pharmazeutisches Institut, 26 Kreuzbergweg, D-53115 Bonn, Germany. Fax: +49 228 732567</p>  |

**Title** Low temperature coatings with aqueous formulations for oral colonic delivery of thermolabile materials  
**Author** Chuei-Wuei Leong  
**Key words** Coating, absorption, controlled drug delivery, extrusion  
**Supervisor** J.M. Newton  
**Institution** School of Pharmacy, University of London, London, UK  
**Language** English  
**Price** —  
**Address for ordering** The British Library, Document Supply Centre, Thesis Orders (RMS), Boston Spa, Wetherby, West Yorkshire LS23 7BQ, UK. Fax: +44 1937 546229

**Title** Low pH induced aggregation of equine IgG  
**Author** Jeffrey D. Lewis  
**Key words** Biotechnology, colloids, kinetics, macromolecules, proteins  
**Supervisor** Steven L. Nail  
**Institution** Purdue University, West-Lafayette, Indiana, USA  
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**Title** Multifunctional polymers for peroral peptide drug absorption  
**Author** H.L. Luessen  
**Key words** Polymers, peroral peptides  
**Supervisor** H.E. Junginger  
**Institution** LACDR, Division of Medical Pharmacology, Leiden University, Leiden, The Netherlands  
**Language** English  
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**Title** Corticosterone and hippocampal 5-HT<sub>1A</sub> receptors, functional implications of central corticosteroid receptor diversity  
**Author** O.C. Meijer  
**Key words** Corticosterone and hippocampal 5-HT<sub>1A</sub> receptors  
**Supervisor** E.R. de Kloet  
**Institution** LACDR, Division of Medical Pharmacology, Leiden University, Leiden, The Netherlands  
**Language** English  
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**Title** Biorecognizable polymer conjugates containing 5-fluorouracil for the treatment of colon cancer  
**Author** David A. Putnam  
**Key words** Targeted delivery, macromolecules, biodegradable polymers  
**Supervisor** Jindrich Kopecek  
**Institution** University of Utah, Salt Lake City, Utah, USA  
**Language** English  
**Price** USD 20.00  
**Address for ordering** University of Utah, CCCD, Biomedical Polymers Research Building, Rm. # 205, Salt Lake City, Utah, USA. Fax: +1 801 5817848

**Title** Characterization of isopentenyl diphosphate isomerase a regulatory enzyme in cinchona isoprenoid biosynthesis  
**Author** A.C. Ramos-Valdivia  
**Key words** Characterization, regulatory enzyme, biosynthesis  
**Supervisor** R. Verpoorte  
**Institution** LACDR, Division of Medical Pharmacology, Leiden University, Leiden, The Netherlands  
**Language** English  
**Price** USD 50.00  
**Address for ordering** Leiden/Amsterdam Center for Drug Research, P.O. Box 9502, NL-2300 RA Leiden, The Netherlands. Fax: +31 71 5274277

**Title** Expression of hepatitis C virus structural proteins using recombinant adenoviruses: Induction and characterization of an immune response  
**Author** Oscar Bruña Romero  
**Key words** Toxicity, viruses, proteins  
**Supervisor** Jesús María Prieto Valtueña  
**Institution** University of Navarra, Pamplona, Spain  
**Language** Spanish  
**Price** Free of charge  
**Address for ordering** Instituto de Salud 'Carlos III', Centro Nacional de Biología Celular y Retrovirus, Ctra. Pozuelo-Majadahonda, km2, E-28220 Madrid, España

**Title** Some effects of mercaptans on membranes and mucus  
**Author** Sayyed Abolghassem Sajadi Tabassi  
**Key words** Penetration enhancement, rheology, membranes, surfactants  
**Supervisors** Gary P. Martin and Chris Marriott  
**Institution** King's College London, London, UK  
**Language** English  
**Price** —  
**Address for ordering** Dr Gary P. Martin, Department of Pharmacy, King's College London, Chelsea Campus, Manresa Road, London SW3 6LX, UK. Fax: +44 171 3515307

**Title** Fatty acids as enhancers of drug permeation across human skin  
**Author** H. Tanojo  
**Key words** Fatty acids, drug permeation, human skin  
**Supervisor** H.E. Junginger  
**Institution** LACDR, Division of Medical Pharmacology, Leiden University, Leiden, The Netherlands  
**Language** English  
**Price** USD 50.00  
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**Title** Polymeric matrix with a concentration gradient: formulation, evaluation and modelisation  
**Author** Patrice Wildgen  
**Key words** Implants, polymers, matrices, drug delivery  
**Supervisors** Jean-Norbert McMullen  
**Institution** University of Montreal, Montreal, Canada  
**Language** French  
**Price** Paper: USD 57.50 and Microfiche: USD 46.00  
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