

**C.V. - Per Artursson
M Sci Pharm, PhD
Professor in Dosage Form Design**

Executive summary

Dr. Artursson studied pharmacy at Uppsala University, where he also obtained his thesis 1985. He spent one year as a post doc. fellow at the Medical Products Agency, Uppsala (1986) and one year as a visiting scientist at Advanced Drug Delivery Research, Ciba-Geigy, England (1987) before taking up a position as Assistant Professor in Pharmaceutics, Uppsala University. In 1992 he was appointed to his present post as Professor of Dosage Form Design at the Department of Pharmacy, Uppsala University. In 1996 he spent a sabbatical at GeneMedicine, the Woodlands, TX. Dr. Artursson's research interests range from drug and gene delivery and targeting to drug absorption.

He has published 148 original articles, 18 review articles, 18 book chapters, 1 book and 5 patents/patent applications and has been the supervisor of 23 PhD thesis' and 21 post.docs'. He is on the editorial boards for the leading scientific journals in the pharmaceutical sciences, was Editor-in-Chief for the European Journal of Pharmaceutical Sciences, 1998-2001 and has received several awards for his research. Dr. Artursson's research interests range from drug and gene delivery and targeting to drug absorption. His research group is comprised of 1 adjunct professor, 2 senior scientists, 4 postdocs', 4 PhD students and 1 laboratory engineer. In 2004, he founded a new unit at his department, dedicated to pharmaceutical screening and informatics: the centre for pharmaceutical informatics (CPI) and in 2010, the unit was transformed into a National platform for drug optimization and pharmaceutical profiling (UDOPP). He is listed as one of the worlds 100 most cited scientists in Pharmacology and Toxicology since 2004 (ISI) and has an h-index of 49.

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1. Personal Data

Birth: 1956, Karlskoga, Sweden
Married: 1989, Karin Höjer
Children: 1989, Sara; 1991, Björn
Citizenship: Swedish

2. Present position and research interests

I hold a full professorship in Dosage Form Design at Uppsala University since 1992. My research has since the late 1980's been focused on intestinal drug absorption and delivery. The aim is to understand drug absorption at the molecular and cellular level in order to deliver drugs more effectively via the oral route. Models developed in this project have been adopted by the drug industry for prediction of drug absorption in drug discovery. Another research focus is on the distribution and function of important drug-transporting proteins in the human body in order to better understand drug disposition and drug interactions. We take a multidisciplinary approach and combine computational chemistry and bioinformatics with cell- and molecular biology, biopharmaceutics, pharmaceutics and physical chemistry to find new ways to predict oral drug absorption, to define rate-limiting barriers to the absorption and organ distribution of different types of drugs and to characterize drug transport routes across organ barriers in important pharmacokinetic organs such as the intestine, liver and kidney. I anticipate that our research will provide insights into new mechanisms for drug absorption, disposition and delivery, and, hopefully, suggest new therapeutic strategies for efficient oral drug delivery.

Previous research interests include formulation and delivery of large drugs such as proteins and plasmid DNA with the aim to develop new nanoparticulate drug delivery systems intended for mucosal, eventually oral administration of e.g. protein and gene vaccines.

3. Professional preparation

M. Pharm.: Faculty of Pharmacy, Uppsala University, 1977-81
PhD. D.: Faculty of Pharmacy, Uppsala University, 1981-85 (Biochemistry)
Post.doc: Medical Products agency, Uppsala, Sweden, 1986 (Drug targeting)
Post.doc: Advanced Drug Delivery Research, Ciba Geigy, Horsham, England, 1987 (Drug targeting)
Docent: Department of Pharmaceutics, Faculty of Pharmacy, Uppsala University, 1990 (Pharmaceutics)
Sabbatical leave: Genemedicine, The Woodlands, Texas, U.S.A., 1996 (non-viral gene delivery systems)

4. Appointments

Photographer:	Nerikes Allehanda (a daily newspaper), Karlskoga, Sweden, 1974
Civil service:	Swedish Army, Artillery Sergeant, 1976
Retail and hospital	
Pharmacist:	Various places in Sweden to finance the PhD studies, 1981-85
Civil service:	Swedish Army, Pharmacist, Second Lieutenant, 1982
Lecturer:	Department of Pharmaceutics, Faculty of Pharmacy, Uppsala University, 1988-1991 (Pharmaceutics)
Professor:	Department of Pharmaceutics, Faculty of Pharmacy, Uppsala University, 1992 to present (Dosage Form Design)

5. Commissions of trust

Faculty boards

Member of several faculty boards and committees over the years. Currently the committee for the Pharmaceutical Faculty, Deputy Chair of the Committee for graduate studies at the Medical and Pharmaceutical faculties and the Prioritization committee for SciLifeLab at Uppsala University.

Publications

Editor-in-chief for European Journal of Pharmaceutics.	1998-2001
Editorial board, Journal of Drug Targeting	1993-2000
Editorial board, European Journal of Pharmaceutical Sciences	1993-1998, 2001-
Editorial board, Pharmaceutical Research	1995 -
Editorial Board, Journal of Pharmaceutical Sciences	2001-
Editorial board, American Journal of Drug Delivery	2003-2006
Editorial board, Current Drug Delivery	2004-

Reviewer for other pharmaceutical, pharmacological, biochemical, physiological and cell biology journals. About 30 manuscripts per year are reviewed.

Scientific Advisory Boards

Navicyte Inc	1996–2001
(Swedish) Medical Products Agency	1999-
BeCe Med AB	2000-2003
Xenerate AB	2001-2002
Optivia Inc	2011-

Executive Boards

Globalization of Pharmaceutics Education Network Inc. (GPEN)	1998-
Principles in Drug Development: a strategic National research programme	1998-2006

Linneus Center for Bioinformatics, Uppsala University

1999-2004

Scientific meetings and courses

Member or chairman of organising committees for many National and International meetings and courses in the pharmaceutical sciences. Current level is about two meetings per year.

Society fellow/memberships

American Association for Pharmaceutical Scientists (fellow)

European Federation for Pharmaceutical Sciences

American Society for Pharmacology and Experimental Therapeutics

Swedish Pharmaceutical Society

Peer reviews

Reviewer of grant applications to major international grant bodies such as Scandinavian Research Councils, the programme for research and technical development within the EU, the Wellcome foundation, Human Frontier Science program and NATO. External examiner on numerous national and international PhD theses.

Consulting

Consultant for major and smaller International drug companies.

6. Major grants and awards

Grants

Research grants from major Swedish funding bodies such as the Swedish Research Council; Medical branch (since 1990), The Swedish Board for Technical Development (VINNOVA), the Swedish Research Council FORMAS (Agricultural branch) and the Swedish Foundation for Strategic Research and from International drug industries including AstraZeneca and Roche. During the last years, the yearly value of these grants amounts to approximately € 800,000. Major grant achievements together with various staff members at the Department of Pharmacy include a € 2.5 million grant from the Wallenberg foundation for equipment and post doctoral fellowships (1995-2000) and an unrestricted € 3 million grant for a PhD student program from Astra (1995-2000), both to the Department of Pharmaceutics, a € 6.0 million grant in "Principles in Drug Development" from the Strategic Research Foundation for PhD and post doc students studying at the interface between pharmaceuticals and clinical pharmacology (1999-2004) and a € 0.8 million award from the Rector of Uppsala University to the Department of Pharmaceutics (2000-2006). In 2002, a € 0.9 million grant for equipment within the field of Pharmaceutical Screening and Informatics was obtained from the Wallenberg Foundation. The grant was matched by Uppsala University through the installment of a 5 year carrier position for a young senior scientist within the field. In 2009, he founded a new collaborative platform, Uppsala

University Drug Optimization and Pharmaceutical Profiling Platform was (UDOPP) together with Uppsala University Innovation and the Swedish board for technical Development. In 2010, the platform became one out of three nodes in Chemical Biology Consortium Sweden, a major infrastructure funded by the Swedish research council. In 2011, the research group received the highest grade by an external research evaluation committee.

Awards and Honours

1994 The research award from the Swedish foundation for research without experimental animals

1997 Ebert Prize from the American Pharmaceutical Association

2001 Fellow of the American Association of Pharmaceutical Scientists.

2001 Oroborus award from the European Federation of Pharmaceutical Scientists

2004 Best paper award from the European Federation of Pharmaceutical Scientists

2005 Meritorius Manuscript Award from the American Association of Pharmaceutical Scientists

2005 New Safe Medicines Faster Award from the European Federation of Pharmaceutical Sciences.

2008 Honorary Professor: School of Molecular and Microbial Sciences, University of Queensland, Brisbane, Australia (2008-2010)

2010 Honorary Doctor: Kuopio University, Finland

2010 Ambassador for Stockholm-Uppsala Life Science

2011 Meritorious Manuscript Award from the American Association of Pharmaceutical Scientists.

Graduate student awards

1994, 1997, 1998, 2001, 2003: Senior author on posters awarded the Best Poster Prize at the Swedish Drug Congress.

2001, 2002, 2004, 2008, 2009: Senior advisor of thesis that received the Graduate Student award in Pharmaceutics and Drug Delivery by the American Association of Pharmaceutical Scientists

2001, 2003, 2004: Senior author on posters awarded the Best Poster Prize at the yearly meeting of the Swedish Medical Association

2003: Senior author on poster awarded the Best Poster Prize at the ULLA summerschool

2006: Senior advisor of thesis that received the Graduate Student Award in Biotechnology by the American Association of Pharmaceutical Scientists

2001, 2003, 2004: Senior author on posters awarded the Best Poster Prize at the yearly meeting of the Swedish Medical Association

2008, 2010: Senior advisor of thesis awarded the Rosenö Award in Pharmacokinetics and Dynamics.

7. Thesis of graduate students

Doctoral thesis (current position)

Anderberg, E.K. Studies on the dissolution of fine particulate practically insoluble drugs and on the effect of surface active enhancers on gastrointestinal absorption of hydrophilic drugs. Doctoral thesis, Uppsala University, 1992 (Project manager, AstraZeneca)

Karlsson, J. Drug absorption in cell culture models of the intestinal epithelium. Doctoral thesis, Uppsala University, 1995 (Senior scientist, AstraZeneca)

Lazorová, L. Transport of soluble and particulate oral vaccine candidates across the intestinal epithelium Doctoral thesis, Bratislava University, 1995 (Senior scientist, Uppsala University)

Wikman Larhed, A. The role of mucus and goblet cells in oral drug absorption. Doctoral thesis, Uppsala University, 1997 (Post.doc., Uppsala University)

Lindmark, T. Absorption enhancement in the intestinal epithelium by sodium caprate (C10) and other medium chain fatty acids. Doctoral thesis, Uppsala University, 1997 (Senior scientist, Pharmacia)

Palm, K. Experimental and theoretical predictions of intestinal drug absorption. Doctoral thesis, Uppsala University, 1998 (Project manager, AstraZeneca)

Raeissi, S.D. Drug transport and metabolism in vitro models of the human intestine. Doctoral thesis, Uppsala University, 1998 (Research manager, Sugen, CA)

Sturesson, C. Preparation and characterisation of biodegradable microspheres for the delivery of bioactive compounds. Doctoral thesis, Uppsala University, 1999 (Senior scientist, Q Med AB, Uppsala)

Ghaderi, R. A supercritical fluids extraction process for the production of drug loaded biodegradable microparticles, 2000 (Post.doc., University of Austin, TX)

Österberg, T. Modelling and prediction of drug transport processes with experimental and calculated molecular properties. Doctoral thesis, Uppsala University, 2000 (Senior scientist, Pharmacia, Stockholm)

Stenberg, P. Computational Models for the Prediction of Intestinal Membrane Permeability. Doctoral thesis, Uppsala University, 2001 (Senior Scientist, Pfizer, U.S.A.)

Tavelin, S. New approaches to studies of paracellular drug transport in intestinal epithelial cell monolayers. Comprehensive summaries of Uppsala dissertations from the Faculty of Pharmacy 285, 2003. (Research associate, Umeå University)

Bergström, C. Computational and experimental models for the prediction of intestinal drug solubility and absorption. Comprehensive summaries of Uppsala dissertations from the Faculty of Pharmacy 295, 2003. (Research associate, Uppsala University)

Engman, H. Intestinal barriers to oral drug absorption: Cytochrome P450 3A and ABC-transport proteins. Comprehensive summaries of Uppsala dissertations from the Faculty of Pharmacy 296, 2003.

Köping-Höggård, M. Chitosan polyplexes as non-viral gene delivery systems: Structure-property relationships and *in vivo* efficiency. Comprehensive summaries of Uppsala dissertations from the Faculty of Pharmacy 301, 2003.

Gullberg, E. Particle transcytosis across the human intestinal epithelium. Model development and target identification for improved drug delivery. Digital comprehensive summaries of Uppsala Dissertations from the faculty of Pharmacy 3, 2005.

Neuhoff, S. Refined *in vitro* models for prediction of intestinal drug transport: Role of pH and extracellular additives in the Caco-2 model. Digital comprehensive summaries of Uppsala Dissertations from the faculty of Pharmacy, 14, 2005.

Englund, G. Inter-individual variability of drug transport proteins. Focus on Pgp (ABCB1) and BCRP (ABCG2) . Digital comprehensive summaries of Uppsala Dissertations from the faculty of Pharmacy, 21, 2005.

Ragnarsson, E. Effects of Microparticulate Drug Delivery Systems. Tissue responses and transcellular transport. . Digital comprehensive summaries of Uppsala Dissertations from the faculty of Pharmacy, 25, 2006.

Wassvik, C. Computational analysis of aqueous drug solubility – influence of the solid state. Digital comprehensive summaries of Uppsala dissertations from the Faculty of Pharmacy 44, 2006

Issa, M. Linear and branched chitosan oligomers as delivery systems for pDNA and siRNA *in vitro* and *in vivo*. Digital comprehensive summaries of Uppsala dissertations from the Faculty of Pharmacy 46, 2006

Matsson, P. ATP-binding cassette efflux transporters and passive membrane permeability in drug absorption and disposition, Digital comprehensive summaries of Uppsala dissertations from the Faculty of Pharmacy 67, 2008

Ahlin, G. In vitro and in silico prediction of drug-drug interactions with transport proteins. Digital comprehensive summaries of Uppsala dissertations from the Faculty of Pharmacy 104, 2009

II Post doc students (current positions)

Schipper, N. The Netherlands, PhD (Research manager, AstraZeneca)	1995-96
Milovic, V. Germany, M.D. (Gastroenterologist, Frankfurt)	1996
Karlsson, J. Sweden, PhD (Senior scientist, AstraZeneca)	1996-97
Kimura, Y. Japan, PhD (Lecturer, Japan)	1997
Nilsson, M. Sweden, PhD (Research manager, GE Healthcare)	1997
Tubulekas, I. Sweden, PhD (Senior scientist, Biovitrum)	1998
Hashimoto, K. Japan, PhD (Lecturer, Japan)	1998-99
Guan, H. Canada, PhD (Senior scientist, Lexigen Pharma, MA)	1999-2000
Taipalensuu, J. Sweden, PhD (Head, Molecular Biology, Jönköping Hospital)	2000-2001
Regnström, K. Sweden, PhD (Associate Professor, Univ. of Colorado)	2000-2003
Svensson, A.-C., Sweden, PhD (Vice President, Resistencia AB, Uppsala)	2001-2004
Nagahara, N., Japan, PhD (Research manager, Takeda, Japan)	2001-2002
Hubatch, I. Sweden, PhD (Senior Scientist, AstraZeneca)	2002-2008
Bergström, C., PhD	2004-2009

(Assistant Professor, Uppsala University)

Strand, S., PhD 2005-2006
(Senior Scientist, The Norwegian University of Science and Technology, Trondheim)

Zaki, N. PhD 2006
(Lecturer, University of Alexandria, Egypt)

Daisuke Nakai, PhD 2006-2007
(Group Leader, Daiichi Sankyo Pharmaceuticals, Japan)

Masateru Miake, PhD 2006-2008
(Group leader, Otsuka Pharmaceuticals, Japan)

Maria Karlgren, PhD 2007-

Ulrika Eriksson, PhD 2007-2009
(Senior scientist, AstraZeneca)

Daniel Norberg, PhD 2008-2010

Luca Fenu, PhD 2010-

Pär Matsson, PhD 2010-

III. Master theses

More than 50 theses for the Masters degree in Pharmaceutics.

8. Summary of publications and presentations

Original articles	150
Review articles and book chapters	35
Patents/Patent Applications	5
Abstracts and congress reports (>100* invited)	392
Undocumented invited lectures and communications	143

List of publications and presentations

1. Original articles

- A1 Artursson, P., Laakso, T. and Edman, P. Acrylic microspheres in vivo IX: Blood elimination kinetics and organ distribution of microparticles with different surface characteristics. *J. Pharm. Sci.* 72 (1983) 1415-1420
- A2 Lepistö, M., Artursson, P., Edman, P., Laakso, T. and Sjöholm, I. Determination of the degree of derivatization of acryloylated polysaccharides by fourier transform proton NMR spectroscopy. *Anal. Biochem.* 133 (1983) 132-135
- A3 Artursson, P., Edman, P., Laakso, T. and Sjöholm, I. Characterization of polyacryl starch microparticles as carriers for proteins and drugs. *J. Pharm. Sci.* 73 (1984) 1507-1513
- A4 Artursson, P., Edman, P. and Sjöholm, I. Biodegradable microspheres I: Duration of action of dextranase entrapped in polyacryl starch microparticles in vivo *J. Pharmacol. Exp. Ther.* 231 (1984) 705-712
- A5 Artursson, P., Edman, P. and Sjöholm, I. Biodegradable microspheres II: Immune response to a heterologous and an autologous protein entrapped in polyacryl starch microparticles. *J. Pharmacol. Exp. Ther.* 234 (1985) 255-260
- A6 Laakso, T., Andersson, J., Artursson, P., Edman, P. and Sjöholm, I. Acrylic microspheres in vivo X: Elimination of circulating cells by active targeting using specific monoclonal antibodies bound to microparticles. *Life Sci.* 38 (1986) 183-190
- A7 Artursson, P., Mårtensson, I.-L. and Sjöholm, I. Biodegradable microspheres III: Some immunological properties of polyacryl starch microparticles. *J. Pharm. Sci.* 75 (1986) 697-701
- A8 Artursson, P. and Sjöholm, I. Effect of opsonins on the macrophage uptake of polyacryl starch microparticles. *Int. J. Pharm.* 32 (1986) 165-170
- A9 Laakso, T., Artursson, P. and Sjöholm, I. Biodegradable microspheres IV: Factors affecting the distribution and degradation of polyacryl starch microparticles. *J. Pharm. Sci.* 75 (1986) 962-967
- A10 Edman, P., Artursson, P., Björk, E. and Davidsson, B., Immobilized L-asparaginase-L-glutaminase from actinobacter glutaminisificans in microspheres: Some properties in vivo and in an extracorporeal system. *Int. J. Pharm.* 34 (1987) 225-230
- A11 Artursson, P., Arro, E., Edman, P., Ericsson, J. L.-E. and Sjöholm, I., Biodegradable microspheres V: Stimulation of macrophages with microparticles made of various polysaccharides. *J. Pharm. Sci.* 76 (1987) 127-133

- A12 Artursson, P., Edman, P. and Ericsson, J. L.-E., Macrophage stimulation with some structurally related polysaccharides. *Scand. J. Immunol.* 25 (1987) 245-254
- A13 Stjärnquist, P., Artursson, P., Brunmark, A., Laakso, T. and Sjöholm, I. Biodegradable microspheres VIII: Killing of leishmania donovani in cultured macrophages by microparticle-bound primaquine. *Int. J. Pharm.* 40 (1987) 215-222
- A14 Artursson, P., Johansson, D. and Sjöholm, I. Receptor-mediated uptake of starch and mannan microparticles by macrophages. Relative contribution of receptors for complement, immunoglobulins and carbohydrates. *Biomaterials* 9 (1988) 241-246
- A15 Artursson, P., Ericsson, J. L.-E. and Sjöholm, I. Inflammatory response to polyacryl starch microparticles: Role of arachidonic acid metabolites. *Int. J. Pharm.* 46 (1988) 149-157
- A16 Artursson, P., Berg, A. and Edman, P. Biochemical and cellular effects of degraded starch microspheres on macrophages. *Int. J. Pharm.* 52 (1989) 183-190
- A17 O'Hagen, D. T., Palin, K., Davis, S. S., Artursson, P. and Sjöholm, I. Polyacrylamide microparticles as adjuvants for oral immunisation. *Vaccine* 7 (1989) 421-424
- A18 Wilson, G., Hassan, I. F., Dix, C. J., Williamson, I., Mackay, M., Woodcock, S. and Artursson, P. Transport and permeability properties of human Caco-2 cell monolayers. *J. Controlled Release* 11 (1990) 25-40
- A19 Artursson, P. Epithelial transport of drugs I. A model for studying the transport of drugs (β -blocking agents) over an intestinal epithelial cell line (Caco-2). *J. Pharm. Sci.* 79 (1990) 476-482
- A20 Artursson, P. and Magnusson, C. Epithelial transport of drugs 2. Effect of extracellular calcium on the transport of hydrophilic and lipophilic drugs (β -blocking agents) over an intestinal epithelial (Caco-2) cells line. *J. Pharm. Sci.* 79 (1990) 595-600
- A21 Kronberg, B., Dahlman, A., Carlfors, J., Karlsson, J. and Artursson, P. Preparation of sterically stabilized liposomes: Colloidal stability, serum stability, macrophage uptake and toxicity. *J. Pharm. Sci.* 79 (1990) 667-671
- A22 Artursson, P., Brown, L., Dix, J., Goddard, P. and Petrak, K. Preparation of sterically stabilized nanoparticles by desolvation from graft copolymers. *J. Polym. Sci. Part A.* 28 (1990) 2651-2663
- A23 Fahlvik, A. K., Artursson, P. and Edman, P. Magnetic starch microspheres: Interaction of a microsphere MR contrast medium with macrophages in vitro. *Int. J. Pharm.* 65 (1990) 249-259

- A24 Lundin, S. and Artursson, P. Absorption of a vasopressin analogue, 1-desamino-8-D-arginine vasopressin (dDAVP) in a human intestinal epithelial cell line (Caco-2).
Int. J. Pharm. 64 (1990) 181-186
- A25 Karlsson, J. and Artursson, P. A method for the determination of cellular permeability coefficients and aqueous boundary layer thickness in monolayers of intestinal epithelial (Caco-2) cells grown in permeable filter chambers *Int. J. Pharm.* 71 (1991) 55-64
- A26 Artursson, P. and Karlsson, J. Correlation between oral drug absorption in humans and apparent drug permeability coefficients in human intestinal epithelial (Caco-2) cells. *Biochem. Biophys. Res. Commun.* 175 (1991) 880-885
- A27 Lundin, S., Möss, J., Bundgaard, H. and Artursson, P. Absorption of thyrotropin-releasing hormone (TRH) and a TRH prodrug in a human intestinal cell line (Caco-2). *Int. J. Pharm.* 76 (1991) R1-R4
- A28 Anderberg, E.K., Nyström, C. and Artursson, P. Epithelial transport of drugs i cell culture. VII: Effects of pharmaceutical surfactant excipients and bile acids on transepithelial permeability in monolayers of human intestinal epithelial (Caco-2) cells. *J. Pharm. Sci.*, 81 (1992) 879-887.
- A29 Karlsson, J. and Artursson, P. A new diffusion chamber system for the determination of drug permeability coefficients across the human intestinal epithelium that are independent of the unstirred water layer. *Biochim. Biophys. Acta* 1111 (1992) 204-210
- A30 Anderberg, E.K. and Artursson, P. Epithelial transport of drugs in cell culture. VIII: Effects of the pharmaceutical surfactant excipient sodium dodecyl sulphate on cell membrane and tight junction permeability in human intestinal epithelial (Caco-2) cells. *J. Pharm. Sci.* 82 (1993) 392-398
- A31 Anderberg, E.K., Lindmark, T. and Artursson, P. Sodium caprate elicits dilatations in human intestinal tight junctions and enhances drug absorption by the paracellular route. *Pharm. Res.* 10 (1993) 857-864
- A32 Jørgensen, L., Artursson, P. and Bechgaard, E. Toxicological and absorption enhancing effects of glycofurool 75 and sodium glycocholate in monolayers of human intestinal epithelial (Caco-2) cells. *Int. J. Pharm.* 95 (1993) 209-217
- A33 Wikman, A., Karlsson, J, Carlstedt, I. and Artursson, P. A drug absorption model based on the mucus layer producing human intestinal epithelial goblet cell line. HT29-H. *Pharm. Res.* 10 (1993) 843-852
- A34 Artursson, P., Ungell, A.-L. and Löfroth, J.-E. Selective paracellular permeability in two models of intestinal absorption: Cultured monolayers of human intestinal epithelial cells and rat intestinal segments. *Pharm. Res.* 10 (1993) 1123-1129

- A35 Karlsson, J., Wikman, A. and Artursson, P. The mucus layer as a barrier to drug absorption in monolayers of human intestinal epithelial HT29-H goblet cells. *Int. J. Pharm.*, 99 (1993) 209-218
- A36 Karlsson, J., Kuo, S.-M., Ziemniak, J. and Artursson, P. Transport of the β -blocker celiprolol across human intestinal epithelial (Caco-2) cells: Evidence for net secretion mediated by an organic cation/H⁺ exchanger and P-glycoprotein. *Br. J. Pharmacol.* 110 (1993) 1009-1016
- A37 Lazarova, L., Russel-Jones, G.J., Sjölander, A. and Artursson, P. Intestinal tissue distribution and epithelial transport of the oral immunogen LTB₄, the B subunit of E. coli heat-labile enterotoxin. *J. Drug Targeting* 1 (1993) 331-340
- A38 Toth, I., Hillery, A.M., Wood, I.P., Magnusson, C. and Artursson, P. Oral absorption of lipidic amino acid conjugates. *Int. J. Pharm.* 102 (1994) 223-230
- A39 Kuo, S.-M., Whitby, B.R., Artursson, P. and Ziemniak, J.A. The contribution of intestinal secretion to the dose-dependent absorption of celiprolol. *Pharm. Res* 11 (1994) 648-653
- A40 Lohikangas, L. Wilen, M., Einarsson, M. and Artursson, P. Effects of a new lipid-based drug delivery system on the absorption of low molecular weight heparin (Fragmin) in monolayers of human intestinal epithelial Caco-2 cells and after rectal administration to rabbits. *Eur. J. Pharm. Sci.* 1 (1994) 297-305
- A41 Lohikangas, L. Wilen, M., Einarsson, M. and Artursson, P. Relative contribution of phosphatidylcholine and monoglyceride to the absorption enhancement of low molecular weight heparin (Fragmin) by a new lipid-based drug delivery system in monolayers of human intestinal epithelial Caco-2 cells and after rectal administration to rabbits. *Eur. J. Pharm. Sci.* 1 (1994) 307-312
- A42 Toth, I., Hillery, A.M., Flinn, N. and Artursson, P. Lipidic conjugates of luteinizing hormone releasing hormone (LHRH) and thyrotropin releasing hormone (TRH) that release and protect the native hormones in homogenates of human intestinal epithelial (Caco-2) cells. *Int. J. Pharm.* 105 (1994) 241-247
- A43 Artursson, P., Lindmark, T., Davis, S.S. and Illum, L. Effect of Chitosan on the permeability of monolayers of intestinal epithelial (Caco-2) cells. *Pharm.Res.* 11 (1994) 1358-1361
- A44 Toth, I., Finn, N., Gibbons, W.A., Brunham, R.C., Artursson, P. A lipidic - amino acid based adjuvant - carrier system for drug delivery and for enhancing peptide immunogenicity *Med. Fac. Landbouww. Univ. Gent* 59/4a (1994) 1703-1707
- A45 Björk, E., Isaksson, U., Edman, P. and Artursson, P. Starch microspheres induce delivery of drugs and peptides across the epithelial barrier by reversible separation of the tight junctions. *J. Drug Targeting* 2 (1995) 501-507

- A46 Wikman, A. and Artursson, P. Co-cultures of human intestinal goblet (HT29-H) and absorptive (Caco-2) cells for studies of epithelial transport and integrity. *Eur. J. Pharm. Sci* 3 (1995) 171-183
- A47 Lindmark, T., Nikkilä, T., Artursson, P., Mechanisms of absorption enhancement by medium chain fatty acids in intestinal epithelial Caco-2 cell monolayers. *J. Pharmacol. Exp. Ther.* 275 (1995) 958-964
- A48 Lazorova, L., Artursson, P, Engström, Å. and Sjölander, A. Transport of an influenza virus vaccine formulation (iscom) in Caco-2 cells. *Am. J. Physiol.* 270 (1996) G554-G564
- A49 Lennernäs, H., Palm, K., Fagerholm, U., Artursson, P. Comparison between active and passive drug transport in human intestinal epithelial(Caco-2) cells in vitro and human jejunum in vivo. *Int. J. Pharm.* 127 (1996) 103-107
- A50 Buur, A., Trier, L., Magnusson, CH., Artursson, P. Permeability of 5-fluorouracil and prodrugs in Caco-2 cell monolayers. *Int. J. Pharm.* 129 (1996) 223-231
- A51 Palm, K., Luthman, K., Ungell, A.-L., Strandlund, G. and Artursson, P. Correlation of drug absorption with molecular surface properties. *J.Pharm.Sci.* 85 (1996) 32-39
- A52 Schipper, N., Vårum, K.M. and Artursson, P. Chitosans as absorption enhancers for poorly absorbable drugs 1: Influence of molecular weight and degree of acetylation on drug transport across human intestinal epithelial (Caco-2) cells. *Pharm. Res.* 13 (1996) 1686-1692
- A53 Flinn, N., Hussain, I., Shaw, A., Artursson, P., Gibbons, W. and Toth, I. Oral absorption studies of lipid-polylysine conjugates of thyrotropin releasing hormone (TRH¹) and luteinizing hormone releasing hormone (LHRH¹). *Int. J. Pharm.* 138 (1996) 167-174
- A54 Palm, K., Stenberg, P., Luthman, K. and Artursson, P. Polar molecular surface properties predict the intestinal absorption of drugs in human. *Pharm. Res.* 14 (1997) 568-571
- A55 Wikman Larhed A., Artursson, P., Gråsjö, J. and Björk, E. Diffusion of drugs in native and purified gastrointestinal mucus. *J. Pharm. Sci.* 86 (1997) 660-665
- A56 Lindmark, T., Söderholm, J., Olaisson, G., Alván, G., Ocklind, G. and Artursson, P. Mechanism of absorption enhancement in humans after rectal administration of ampicillin in suppositories containing sodium caprate. *Pharm. Res.* 14 (1997) 930-935
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- *C304 Artursson P. Identification of targets and targeting to M cells in the human intestine. Molecular Pharmaceutics in Drug Delivery: 12th UKICRS conference, Loughborough, January, 2006.
- *C305 Artursson P. How can ADME contribute to predictions of toxicity? Safety assessment of drugs, Uppsala university, January, 2006.
- *C306 Artursson, P. New approaches to compound profiling. Pharmaceutical profiling in drug discovery and development, Uppsala, January, 2006.
- *C307 Artursson, P. Permeability and absorption considerations during optimization of lead-like properties. Optimization of drug-like properties of leads in discovery: Fine-tuning the Biopharmaceutical-ADME-Tox profile. ETH, Zurich, Mars, 2006.
- *C308 Artursson, P. A pharmacophore for the multi-drug resistance ABC-transporter BCRP (ABCG2). EDAN meeting, Leuven, Belgium, Mars, 2006.
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- *C311 Artursson, P. Quantitative prediction of GI absorption of drugs. Short course: Role of intestinal and hepatic transporters/enzymes on oral bioavailabilities of drugs. CRS, Vienna, July, 2006.
- *C312 Artursson, P. Identification and modelling of important drug transport pathways. Physiologically based dynamic modelling: concepts. COST B25 Action, Leuven, Belgium, September, 2006.
- *C313 Artursson, P. The role of drug transport proteins in drug absorption and tissue distribution. The ECOPA science initiative: reaching the young scientist. Alicante, September, 2006.
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- C317 Hubatsch, I and Artursson, P. Optimisation and pre-validation of an in-vitro test strateg for predicting human toxicity - In-vitro determination of parameters for oral absorption (1): compounds from reference list 1. A-cute-Tox consortium meeting, October 5-7, 2006, Ostende, Belgium.
- C318 Hubatsch, I and Artursson, P. Optimisation and pre-validation of an in-vitro test strategy for predicting human toxicity - In-vitro determination of parameters for oral absorption (2): assay modified for compounds with high lipophilicity. A-cute-Tox consortium meeting, October 5-7, 2006, Ostende, Belgium.
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- C320 Hubatsch, I, Lazorova, L and Artursson, P. A new approach for mapping of the human transporter proteome using mono-specific antibodies: cellular and organ expression of the human oligo-peptide transporter PepT1 (SLC15A1). AAPS Annual Meeting and Exposition, October 29-November 2, 2006, San Antonio, Texas, USA.
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- C322 Matsson, P, Ahlin, G, Englund, G, Bergström, CAS, Norinder, U and Artursson, P. Structural requirements for drug interactions with the human breast cancer resistance protein (BCRP/ABCG2). AAPS Annual Meeting October 29-November 2, 2006, San Antonio, Texas, USA.
- C323 Hilgendorf, C., Ahlin, G., Karlsson, J., Seithel, A., Artursson, P. and Ungell, A-L. Expression profiling of transporter genes in fresh human tissue from liver, kidney and intestine and comparison with cell lines. AAPS, San Antonio, Texas, USA, November, 2006.
- *C324 Artursson, P. Role of different drug transport routes during drug absorption and distribution. Pharmacokinetics United Kingdom 2006, Sheffield, UK, November, 2006.
- *C325 Artursson, P. A new approach for mapping of the human transporter proteome using monospecific antibodies. Cellular and organ expression of the human oligo-peptide transporter PEPT1. AAPS, San Antonio, TX, November, 2006.

- *C326 Artursson P. Physicochemical, permeability and transporter profiling. Short course: Pharmaceutical Profiling, Lawrence, Kansas, November, 2006.
- *C327 Artursson, P. Mukosala transportsystem, metoder för studium och deras betydelse för hälsa och läkemedelsbehandling. Workshop IBD, Uppsala University, February 2, 2007.
- *C328 Artursson, P. Profiling and Prediction of Drug-Transporter Interactions. 4th World Conference on Drug Absorption, Transport and Delivery, Kanazawa, Japan, June 20-22, 2007.
- C329 Ahlin, G., Karlsson, J., Gustavsson, L., Olofsson, J., Hilgendorf, C., Bergström, C. and Artursson, P. Structural requirements for drug inhibition of human OCT1. 4th World Conference on Drug Absorption, Transport and Delivery, Kanazawa, Japan, June, 2007.
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- C332 Miyake, M., Ragnarsson, E., Nakai, D. and Artursson, P. The pro-inflammatory cytokine IL-6 regulates nanoparticle transport across model Fae cells. Rio de Janeiro, Brazil, August, 2007.
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- C334 Ahlin, G., Karlsson, J., Gustavsson, L., Olofsson, J., Hilgendorf, C., Bergström, C. and Artursson, P. Structural requirements for drug inhibition of human OCT1. AAPS, San Diego, US, November, 2007.
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- *C336 Artursson, P. Cell Cultures as in vitro Models in Biopharmacy. XL National Congress of Pharmaceutical Sciences, Mérida, Mexico, November 4-8, 2007.
- C337 Bergström, C.A.S. and Artursson, P. Pharmaceutical Profiling Tools Applicable in Early Drug Discovery. BioÅngström, Uppsala, Sweden, November 7, 2007.

- *C338 Artursson, P. Pharmaceutical Profiling: from physical chemistry to clinical relevance. 2nd symposium on Pharmaceutical Profiling in Drug Discovery and Development, BMC, Uppsala, January 31, 2008.
- *C339 Artursson, P. Profiling and Prediction of Drug Transporter Interactions. 1st International Conference on Drug Design & Discovery. Dubai, UAE, February 4-7, 2008.
- *C340 Artursson, P. Comparison and Prediction of Inhibitors of the Three Major Human ATP-binding Cassette Transporters P-gp, BCRP and MRP2. EDAN, Leuven, Belgium, March 16-18, 2008.
- *C341 Artursson, P. Role of active and passive transport during drug absorption and distribution. Simcyp Arosa Seminar, UK, April 2, 2008.
- C342 Ahlin G., Karlsson J., Pedersen J., Gustavsson L., Larsson R., Matsson P., Norinder U., Bergström C.A.S. and Artursson P. Structural requirements for drug inhibition of the human organic cation transport protein OCT1 (SLC22A1). Conference of the International Society for the Study of Xenobiotics, Vienna, Austria, May 18-21, 2008. *Drug Metabolism Reviews*, 40, 158-159, 2008.
- C343 Pedersen, J., Matsson, P., Bergström, C., Hoogstraate, J. and Artursson, P. Prediction and identification of drug interactions with the ATP-binding cassette transporter multidrug resistance associated protein (MRP2; ABCC2). Conference of the International Society for the Study of Xenobiotics, Vienna, Austria, May 18-21, 2008. *Drug Metabolism Reviews*, 40, 160-161, 2008.
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- C346 Wassvik, CM, Holmen AG, Draheim, R, Artursson, P, and Bergström, CAS. Molecular characteristics for solid-state limited solubility. EURO-QSAR, Uppsala, Sept 21-26, 2008.
- C347 Ahlin G., Karlsson J., Pedersen J., Gustavsson L., Larsson R., Matsson P., Norinder U., Bergström C.A.S. and Artursson P. Structural requirements for drug inhibition of the human organic cation transport protein OCT1 (SLC22A1). EURO-QSAR, Uppsala, Sept 21-26, 2008.
- C348 Pedersen, J., Matsson, P., Bergström, C., Hoogstraate, J. and Artursson, P. Prediction and identification of drug interactions with the ATP-binding cassette transporter multidrug resistance associated protein (MRP2; ABCC2). EURO-QSAR, Uppsala, Sept 21-26, 2008.

- C349 Matsson, P., Pedersen, J., Norinder, U., Bergström, C.A.S and Artursson, P. Identification and prediction of inhibitors of the three major human ATP-binding cassette transporters Pgp, MRP2 and BCRP. EURO-QSAR, Uppsala, Sept 21-26, 2008.
- *C350 Artursson, P. Modelling of Absorption, Intracellular Accumulation and Excretion. 15th International Congress on In Vitro Toxicology, ESTIV 2008, Djurönäset, Sweden, September 25-28, 2008.
- *C351 Artursson, P. In Vitro- In Vivo Correlations of transporter models, Meeting on In vitro models of transporter research: possibilities and limitations, Greifswald, Germany, September 30-October 1, 2008.
- *C352 Artursson, P. Passive permeability and active transport models to predict oral absorption. EUFEPS Conference on Drug Transport and Delivery: Impact on Drug Discovery and Development. Uppsala, Sweden, October 8-10, 2008.
- *C353 Artursson, P. Pharmaceutical Profiling – predicting drug interactions with transport proteins. Styrning av läkemedelstillförel – aktuell svensk forskning, Lund, May 28-29, 2008.
- *C354 Artursson, P. Profiling of Drug-Drug interactions with drug transporting proteins. MipTec Conference – The Leading European Event for Drug Discovery, Basel, Switzerland, October 14-16, 2008.
- C355 Bergström C.A.S., Bolin S., Artursson P., Rönn R. and Sandström A. Intestinal absorption of Hepatitis C virus protease inhibitors. AAPS, Atlanta, Nov 16-20, 2008.
- C356 Nakai D., Hubatsch I., Lazorova L., Ekegren J., Larhed M., Bergström C.A.S and Artursson P. An optimized model of intestinal epithelial 2/4/A1 cell monolayers for permeability screening of large and flexible molecules: HIV protease inhibitors. AAPS, Atlanta, Nov 16-20, 2008
- C357 Ahlin G., Hilgendorf C., Karlsson J., Al-Khalili Szigyarto C., Uhlén M. and Artursson P. Gene and protein expression of human drug transport proteins in cell lines routinely used in drug discovery programs. AAPS, Atlanta, Nov 16-20, 2008.
- C358 Ahlin G., Li Z., Chen Y., Yee S., Ianculescu A., Giacomini K. and Artursson P. Effects of genetic variation in the human organic cation transporter hOCT1 on drug inhibition. AAPS, Atlanta, Nov 16-20, 2008
- C359 Pedersen, J., Matsson, P., Bergström, C., Hoogstraate, J. and Artursson, P. Drug inhibition of the human ATP-binding cassette transporter Multi-drug resistance associated protein 2 (MRP-2; ABCB2). AAPS, Atlanta, Nov 16-20, 2008.

- C360 Ahlin, G., Li, Z., Yee, S., Ianculescu, A., Chen, Y., Giacomini, K. and Artursson, P. Effects of genetic variation in the human organic cation transporter OCT1 on drug inhibition. AAPS, Atlanta, Nov 16-20, 2008.
- C361 Bergström C.A.S, Tsinman O and Avdeef A. Dissolution rate and apparent solubility of poorly soluble compounds in biorelevant fluids. AAPS, Atlanta, Nov 16-20, 2008.
- C362 Bergström C.A.S., Bolin S., Artursson P., Rönn R. and Sandström A. Intestinal absorption of Hepatitis C virus protease inhibitors. AAPS, Atlanta, Nov 16-20, 2008.
- C363 Matsson, P., Pedersen, J., Bergström, C. and Artursson P. ATP-binding cassette efflux transporters and passive membrane permeability in drug absorption and disposition. AAPS, Atlanta, Nov 16-20, 2008.
- C364 Matsson, P., Pedersen, J.M., Norider, U., Bergström, C. and Artursson, P. Identification of Novel Specific and General Inhibitors of the Three Major Human ATP-Binding Cassette Transporters P-gp, BCRP and MRP2 Among Registered Drugs. *Pharmaceutical Research*, 26, 1816-1831, Aug 2009.
- *C365 Artursson, P. Candle light lecture: What you did not know about transport. Rosenön Meeting 2009: DMPK Aspects of Drug Combinations, September 18, 2009.
- C366 Jansson-Lofmark, R., Johansson, C. -C., Hubatsch, I., Artursson, P. and Ashton, M. Investigation of the disadvantageous stereoselective intestinal absorption of eflornithine after oral dose in rat. *Tropical medicine & International health*, 14, 175-175. Sep 2009.
- *C367 Artursson, P. Invisible drug aggregates: a confounding factor in studies of drug absorption? LTS Academy, Bonn, Germany, October 8th, 2009
- C368 Norberg, D and Artursson, P Simulation of the dose dependent relative contributions of simultaneous passive and active transport of drugs into hepatocytes and enterocytes. AAPS annual meeting, Los Angeles, 8-12 Nov. 2009
- C369 Ahlin, G., Chen, Y., Ianculescu, A. G., Giacomini, K. M. and Artursson, P. Drug transport by genetic variants of the liver specific human organic transporter OCT1 (SLC22A1). Effect of concomitantly administered drugs on metformin uptake. AAPS annual meeting, Los Angeles, 8-12 Nov. 2009
- C370 Ahlin, G., Karlgren, M., Bergström, C., Karlsson, J. and Artursson, P. Interaction of 129 orally administered drugs with the liver-specific organic anion transporter OATP1B1 (*SLCO1B1*). AAPS annual meeting, Los Angeles, 8-12 Nov. 2009.
- C371 Pedersen, J., Hoogstraate, J. and Artursson, P. Prediction and Identification of Drug Interactions with the Human ATP-binding Cassette Transporter Bile Salt

- Export Pump (BSEP, ABCB11). AAPS annual meeting, Los Angeles, 8-12 Nov. 2009.
- C372 Strand, S., Issa, M., Malmo, K., Varuum, K. and Artursson, P. Tailoring of chitosans for siRNA delivery. Combined Meeting of the 17th European-Society-of-Gene-and-Cell-Therapy/16th German-Society-for-Gene-Therapy/4th German-Society-for-Stem-Cell-Research, Hannover, Germany, 21-25 Nov, 2009. *Human Gene Therapy*, 20(11), 1517-1518, 2009.
- C373 Strand, S., Berg, L., Lelu, S., Davis, C., Artursson, P. och Vaarum, K. Molecular design of chitosan gene delivery systems with an optimized balance between polyplex stability and unpacking. Combined Meeting of the 17th European-Society-of-Gene-and-Cell-Therapy/16th German-Society-for-Gene-Therapy/4th German-Society-for-Stem-Cell-Research, Hannover, Germany, 21-25 Nov, 2009. *Human Gene Therapy*, 20(11), 1517, 2009.
- C374 Artursson, P. Prediction of drug interactions with drug transporting proteins – an update. New trends in drug metabolism and transporter interactions. Translation of preclinical science to clinical reality. AstraZeneca R& D, Mölndal, Sweden. January 21, 2010.
- C375 Artursson, P. Efflux tracers some perspectives. The future of molecular imaging. New technology and scientific challenges to meet clinical needs. Uppsala, Sweden. April 12-14, 2010.
- *C376 Artursson, P. Profiling of drug-drug interactions with drug transporting proteins. Pharmaceutical profiling in drug discovery and development. Uppsala Univeristy, Sweden. April 15, 2010.
- *C377 Artursson, P. Profiling of drug-drug interactions with drug transporting proteins. Recent advances in pharmaceutical research and technology. Beirut Arab University, Beirut, Lebanon. May 6-7, 2010.
- C378 Artursson, P. Predictions of drug-drug interactions with transport proteins. Seminar in Health Sciences. University of Eastern Finland, Kuopio, Finland. June 9, 2010.
- C379 Artursson, P. Recognizing and overcoming barriers to optimized drug delivery – an update. Optimizing Drug Delivery to the Target. Rosenö, Stockholm. Sweden. September 9-11, 2010.
- *C380 Artursson, P. Intestinal Absorption and Transport. Short course: Transporters – Implication in the Design, Delivery, and Safety of Medicines. GPEN meeting. University of North Carolina, Chapel Hill, NC, USA. November 10-12, 2010
- *C381 Artursson, P. Permeability and Transport Profiling of Drug Candidates. Short Course: De-risking Drug Candidates: Optimizing Solubility, Permeability and DM-PK Properties. GPEN meeting. University of North Carolina, Chapel Hill, NC, USA. November 10-12, 2010.

- *C382 Artursson, P. Recent advances in biopharmaceutics. Symposium. Enabling Technologies for Early Drug Development. Karolinska Institutet Science Park, Huddinge, Sweden. November 30, 2010
- *C383 Artursson, P. Transepithelial Transport Mechanisms in Oral Protein Delivery. Novo Nordisk A/S, Copenhagen, Denmark. December 1-3, 2010.
- C384 Almqvist, F., Artursson, P., Bergström, C., Cullman, I., Carlsson, M., Elofsson, M., Enquist, P-A., Eriksson, J., Gustavsson, A-L., Hammarström, L., Haraldsson, M., Jenmalm Jensen, A., Johansson, L., Karlgren, M., Lazarova, L., Lundbäck, T., Qian, W., Svensson, R., Uvell, H., and Öhman, A. CBCS - Chemical Biology Consortium Sweden. 2nd European Chemical Biology Symposium, EU – open screen, Prague. May, 2010.
- C385 Almqvist, F, Artursson, P, Axelsson, H, Carlsson, M, Cullman, I, Elofsson, M, Enquist, P-A, Eriksson, J, Esberg, A, Gustavsson, A-L, Hammarström, L, Haraldsson, M, Jenmalm Jensen, A, Johansson, L, Lazorova, L, Lundbäck, T, Mastej, M, Qian, W, Sigmundsson, K, Svensson, R, Uvell, H, Öhman, A. CBCS - Chemical Biology Consortium Sweden, 5th Anglo-Swedish Medicinal Chemistry Meeting, Åre, Sweden, March 20-23, 2011.
- C386 Bergström, C., Dressman, J., Artursson, P. Permeability Determination of Six Essential Medicines. International Symposium on BA/BE of Oral Drug Products. Tokyo. April 11-13, 2011.
- C387* Artursson, P. Permeability and transport assessment of structural leads using in silico and in vitro methodologies. Preclinical Studies related to Intestinal and Hepatic Drug Disposition. ULLA Summer School, Parma, 2011.
- C388* Artursson, P. Overview of intestinal and hepatic transporters relevant for oral drug disposition and hepatobiliary elimination. Preclinical Studies related to Intestinal and Hepatic Drug Disposition. ULLA Summer School, Parma, 2011.
- C389* Artursson, P. Clinically relevant drug interactions due to transporter inhibition. Preclinical Studies related to Intestinal and Hepatic Drug Disposition. ULLA Summer School, Parma, 2011.
- C390* Artursson, P. Transporter substrates and inhibitors. Preclinical Studies related to Intestinal and Hepatic Drug Disposition. ULLA Summer School, Parma, 2011.
- C391* Artursson, P. Proteomics informed profiling of transport and drug-drug interactions with drug transporting proteins. Symposium: Frontier in ADME – Academic perspectives. Uppsala, January 26, 2011.
- C392* Artursson, P. Towards Proteomics-Informed Profiling of Drug Transport and Drug Interactions. Symposium: Perspectives in Chemical Biology, 2011. CBSC, Stockholm, May 19, 2011.

- C393* Artursson, P. Proteomics informed studies of drug transport and drug interactions. Scheele Symposium. November 11, 2011.
- C394* Artursson, P. Prediction and modeling of drug transport, drug-drug interactions and transporter mediated side effects. Helsinki Drug Research 2011 Conference: Tools for ADMET and Pharmaceutical Nanotechnology. Helsinki, September 18-20, 2011.
- C395 Vildhede, A., Karlgren, M., Wisniewski, J., Artursson, P. Proteomics-informed specific and general inhibition of the three hepatic organic anion transporters OATP1B1 (SLCO1B1), OATP1B3 (SLCO1B3) and OATP2B1 (SLCO2B1). ULLA. June 2-8, 2011. Parma, Italy.
- C396 Karlgren, M., Vildhede, A., Wisniewski, J., Artursson, P. Proteomics-informed specific and general inhibition of the three hepatic organic anion transporters OATP1B1 (SLCO1B1), OATP1B3 (SLCO1B3) and OATP2B1 (SLCO2B1). Scheele symposium. November 10-11, 2011. Uppsala, Sweden.
- C397 Karlgren, M, Ahlin, G, Bergström, CA, Svensson, R, Palm, J, Artursson, P. In Vitro and In Silico Strategies to Identify OATP1B1 Inhibitors and Predict Clinical Drug-Drug Interactions. Scheele symposium. November 10-11, 2011. Uppsala, Sweden.
- C398 Karlgren, M, Svensson, R and Artursson, P. Integrated cell models for prediction of drug transport and drug metabolism in the human hepatocyte. Scheele symposium. November 10-11, 2011. Uppsala, Sweden.
- C399 Gao, G, Karlgren, M, Svedberg, E, Bergström, CAS, Artursson, K, Artursson, P. Identification of transport mechanisms for two simultaneously occurring mycotoxins - ochratoxin A and citrinin - into the human liver. Scheele symposium. November 10-11, 2011. Uppsala, Sweden.
- C400 Karlgren, M, Ahlin, G, Bergström, CA, Svensson, R, Palm, J, Artursson, P. In Vitro and In Silico Strategies to Identify OATP1B1 Inhibitors and Predict Clinical Drug-Drug Interactions. BioMedical Transporters 2011. August 7-11, 2011. Grindelwald, Switzerland.
- C401 Artursson, P. Innovativa verktyg för drug discovery. Projektkatalog – Innovationer för framtidens hälsa. Vinnova Information VI 2011:10.
- C402 Fagerberg, J.H., Al-Tikriti, Y., Ragnarsson, G., Bergström, C.A.S. Ethanol effects on apparent solubility of poorly soluble drug molecules in simulated intestinal fluid. Scheele symposium. November 10-11, 2011. Uppsala, Sweden.
- C403 Karlgren, M., Bergström, C., Felth, J., Mastej, M., Matsson, P., Svedberg, E., Svensson, R., Artursson, P. The Uppsala University Drug Optimization and Pharmaceutical Profiling Platform (UDOPP). Scheele symposium 2011, Uppsala, October 10-11, 2011.

C404* Artursson, P. Prediction and Modelling of Drug Transport, Transporter Mediated Drug-Drug Interactions and Adverse Effects. Optivia Transporter Webinar, November 16, 2011.

7. Undocumented lectures and communications

- D1 Effects of colloidal particles on macrophages. Meeting on radio imaging with colloidal particles. Dept of Radio diagnostics, University of Lund, 1984
- D2 Polyacryl starch microparticles as drug delivery system. Smith Kline and French Research Laboratories, Philadelphia, USA, 1984
- D3 Polysaccharide microspheres as drug carriers. Macrophage interactions. Dept of Pathology, Academic hospital, Uppsala, Sweden, 1984
- D4 Interactions between polyacryl starch microspheres and cells of the immune system. Symposium on properties of polymers and drug delivery. Stockholm, Sweden, 1985
- D5 Interactions between polysaccharide microspheres and different components of the immune system. Symposium on targeting of drugs with synthetic systems. Cap Sounion, Greece, 1985
- D6 Interaction between structurally related polysaccharides and the immune system. Scheele Symposium Workshop, 1985
- D7 Polysaccharide derived microspheres as drug delivery systems. Advanced drug delivery research, Horsham, England, 1986
- D8 Is drug targeting to macrophages with microspheres a viable concept? Dept. of Pharmacy, Brighton Polytech, 1987
- D9 Is drug targeting to macrophages with microspheres a viable concept? Dept. of Pharmaceutics, Nottingham University, England, 1987
- D10 Is drug targeting to macrophages with microspheres a viable concept? Dept. of Pharmaceutics, UWIST, Cardiff, Wales, 1987
- D11 Is drug targeting to macrophages with microspheres a viable concept? Dept. of Pharmaceutics, ICI, Macclesfield, England, 1987
- D12 Is drug targeting to macrophages with microspheres a viable concept? Dept. of Pharmaceutics, Strathclyde University, Glasgow, Scotland, 1987
- D13 Receptors of importance for the uptake of polysaccharide microspheres by macrophages in vitro and in vivo. 2nd international conference: Biointeractions'87, Cambridge, England, 1987.

- D14 A model for studying intestinal transport of drugs based on cell culture. Hässle AB, Mölndal, 1988
- D15 A model for studying intestinal transport of drugs based on cell culture. Pharmacia AB, Uppsala, 1988
- D16 Utvärdering av steriskt stabiliserade liposomer, kolloidal stabilitet, inneslutning, makrofagupptag och toxicitet. Ytkemi för farmaci och biomaterial, Ytkemiska Institutet, Stockholm, 1989
- D17 Barriers to drug absorption in human intestinal cell culture models. Dept. of Physiological Sciences, The University of Newcastle upon Tyne, England, 1990
- D18 Barriers to drug absorption in human intestinal cell culture models. Ciba Geigy Pharmaceuticals, Horsham, England, 1990
- D19 Läkemedels och peptidabsorption i humana cellodlingsmodeller, AB Hässle, Mölndal, 1990
- D20 Läkemedels- och peptidabsorption i humana cellodlingsmodeller, möte om peptidabsorption, AB Ferring, Malmö, 1990
- D21 Prediction of prodrug absorption in the Caco-2 model, Ciba-Geigy, Basel, Schweiz, 1990
- D22 Caco-2 celler som model för det humana tarmepitel, Symposium om Dyrkede celler som modelsystemer i laegemiddelforskning, PharmaBiotec Research Center, Vedbaek, Danmark, 1990
- D23 Studier av läkemedels- och peptidsabsorption över humant tarmepitel i cellodling, docent föreläsning, Inst. för Galenisk Farmaci, 1990
- D24 Drug and peptide absorption in human intestinal cell culture models, Kansas City Pharmaceutical Discussion group, Kansas City, Kansas, USA, 1990
- D25 Drug and peptide absorption in human intestinal cell culture models, Interx, Lawrence, Kansas, USA, 1990
- D26 Cellodlingsmodeller för studier av läkemedelsabsorption, Astra läkemedel, 1991
- D27 Cellodlingsmodeller för studier av läkemedelsabsorption, KabiPharmacia, 1991
- D28 Drug and peptide absorption across monolayers of human intestinal epithelial cells, Center for biopharmaceutical sciences, Leiden, The Netherlands, 1991
- D29 Cellodlingsmodeller i studier av peptid- och proteinabsorption över humant tarmepitel, Inst. f. Zoofysiologi, Lund, 1991
- D30 Cell cultures as a model for intestinal drug transport, 1991 Capsugel symposium: Oral delivery of peptides - from theory to practice, Paris, 1991

- D31 Cellodlingsmodeller för studier av läkemedelsabsorption, Astra Arcus, 1991.
- D32 Cell culture models for studies on intestinal drug and peptide absorption, seminarium om celldoling på permeabla membran anordnat av Labdesign, Arrenius laboratoriet, Stockholm, 1991
- D33 Secretion of drugs across human intestinal epithelial cell cultures. Rhône-Poulenc Rorer, Collegeville, PA, USA, 1992
- D34 Studies on absorption enhancement in monolayers of human intestinal epithelial cells, Interx, Lawrence, KA, USA, 1992
- D35 Transport studies in epithelial cell culture models, Merrel Dow Research Institute symposium on In vitro systems for studying epithelial and endothelial transport and metabolism: applications in pharmacology and toxicology, Lepetit Research center, Gerenzano, Italy, 1992
- D36 Installationsföreläsning; Tabletter ersätter sprutor? Uppsala Universitet, 12 februari 1993
- D37 Absorption of drugs through Caco-2 cells. Drug Delivery Workshop, Astra Arcus, Södertälje, 1993
- D38 Cultured epithelial cell lines as in vitro models of the intestinal barrier. MFR, Söderköping, 6-7 May, 1993
- D39 Studies on drug absorption in cell culture - a new tool in dosage form design. ULLA, London, School of Pharmacy, London, 10 July, 1993
- D40 Transport of drugs in cell cultures of intestinal epithelial cells. Ciba, Horsham, England, 1993
- D41 Läkemedel framtagna med genteknik. Apotekarsocieteten, Stockholm, 20 January, 1994
- D42 Absorptionsbarriärer vid oral läkemedelsadministrering, seminarier, Pharmacia Therapeutics, Stockholm 21 January, 1994
- D43 Cell culture models for studies of intestinal drug and peptide absorption, Dept of Medical Chemistry, Biomedical Centre, Uppsala, March, 1995
- D44 Studies on drug transport in intestinal epithelial cells. Relevance for studies on multidrug resistance? Cancerfondens planeringsgrupp för resistensforskning, Svenska Läkaresällskapet, Stockholm 21 mars 1994
- D45 Physiological basis for oral administration of drugs, seminars in biochemistry, Department of Biochemistry, Uppsala, 27 April 1994

- D46 Cell culture models for studies on intestinal drug and peptide absorption, seminars in biochemistry, Department of Biochemistry, Uppsala, 27 April 1994
- D47 Physiological basis for oral administration of drugs (review). Department of Biochemistry, Uppsala University, 27 April 1994
- D48 Cell culture models for studies on intestinal drug and peptide absorption. Department of Biochemistry, Uppsala University, 27 April 1994
- D49 Cellodlingsmodell för studier av läkemedels absorption i tarmen - användning inom formuleringsarbetet, Läkemedelsverket Uppsala, 28 April 1994
- D50 Cell models for studies on epithelial transport and integrity: intestinal models. Department of Physiology, Uppsala University, 2 June 1994
- D51 Cell cultures as model for intestinal drug absorption. Departement Pharmazie-Galenische Pharmazie, Zürich, Switzerland, 12 July 1994
- D52 Drug absorption studies in Caco-2 cells. Biopharmaceutic and Pharmacokinetic strategies for oral drug delivery, Department of Pharmacy, Uppsala University, 29 August - 2 September 1994
- D53 In vitro enhancement of intestinal permeability. Biopharmaceutic and Pharmacokinetic strategies for oral drug delivery, Department of Pharmacy, Uppsala University, 29 August - 2 September, 1994.
- D54 Oral administration of antigens. Biopharmaceutic and Pharmacokinetic strategies for oral drug delivery, Department of Pharmacy, Uppsala University, 29 August - 2 September, 1994.
- D55 Prediction of intestinal drug absorption from molecular surface properties. Intestinal absorption och permeabilitet, Kirurgiska institutionen, Linköping, October, 1994.
- D56 Paracellular absorption enhancement in intestinal Caco-2 monolayers Intestinal absorption och permeabilitet, Kirurgiska institutionen, Linköping, October 1994
- D57 Influenza virus iscoms: an oral vaccine formulation that alters the immunocompetence of human intestinal epithelial cells, Intestinal absorption och permeabilitet, Kirurgiska institutionen, Linköping, October 1994.
- D58 Co-cultures of human intestinal absorptive (Caco-2) and goblet (HT-29-H) cells, Intestinal absorption och permeabilitet, Kirurgiska institutionen, Linköping, October 1994.
- D59 Cultured epithelial cell lines as models of the intestinal barrier to drug absorption INSERM course in In vitro models for drug transport across epithelial and endothelial barriers Paris France, 13-14 October, 1994.

- D60 Studies of Drug Transport in Human Intestinal Epithelial Caco-2 Cells, Glaxo Research Triangle Park, NC, USA, November 1994.
- D61 Mucosal epithelial barriers & transport, SBLVaccin AB, Stockholm, 1 November, 1994.
- D62 Caco-2 monolayers in experimental and theoretical predictions of drug absorption. Department of Pharmaceutics, Marburg University, Germany, May, 1995.
- D63 Caco-2 monolayers in experimental and theoretical predictions of drug absorption. Department of Pharmaceutics, Rutgers University, New Brunswick, NJ, June, 1995.
- D64 Caco-2 monolayers in experimental and theoretical predictions of drug absorption. Merck, Central Research, Department of Drug Metabolism, West Point, PA, June, 1995.
- D65 Cellodlingsmodeller baserade på tamrepitel för experimentella och teoretiska förutsägelser av oral läkemedelsabsorption in vivo. ASTRA Draco, Lund, 5 October, 1995.
- D66 Användning av Caco-2 monolager för experimentella och teoretiska förutsägelser av läkemedelsabsorption. Ferring, Malmö, 10 Oktober, 1995.
- D67 Caco-2 monolager i experimentella och teoretiska förutsägelser av läkemedelsabsorption, Ferring AB, Malmö, October, 1995.
- D68 Cell-culture monolayers., Post Graduate course at the Royal Danish School of Pharmacy: Biological membranes; drug targets and absorption barriers, 9-13 October, 1995.
- D69 Caco-2 monolayers in experimental and theoretical predictions of drug absorption., Drug Delivery Symposium, Royal Danish School of Pharmacy, November, 1995.
- D70 Absorption enhancement of ampicillin in humans by suppositories containing codium caprate. Correlation with rectal morphology. Ussing-möte, BMC, Uppsala, November, 1995.
- D71 The relationship between dynamic molecular surface properties of highly lipophilic compounds and intestinal epithelial permeability. Ussing-möte, BMC, Uppsala, November, 1995.
- D72 Simultaneous determination of membrane tight junction effects of absorption enhancers in Caco-2 cell monolayers. Ussing-möte, BMC, Uppsala, November, 1995
- D73 Permeabilitet i Caco-2 modellen - variation mellan olika laboratorier. Ussingmöte, BMC, Uppsala, November, 1995.

- D74 Oral Drug Delivery to M cells, Gene Medicine, Inc, Texas, November, 1995.
- D75 Experimental and Theoretical Predictions of Drug Absorption in Intestinal Epithelial Cell Cultures, Institut Scientifique Roussel, Romanville, France, December, 1995.
- D76 Experimental and theoretical predictions of drug absorption in cell cultures of the intestinal epithelium, International Meeting of Roche Pharma Chemists, Wildhaus, Switzerland, 5-9 February, 1996
- D77 Epithelial cell monolayers in experimental and theoretical predictions of intestinal drug absorption, The University of Kansas, Dept. of Pharmaceutical Chemistry, 18 April, 1996
- D78 Intestinal cell cultures and the Ussing chamber technique, Second International Workshop on Strategies for oral Drug Delivery, Ascona, Switzerland, May 5-9, 1996
- D79 Enhancement of intestinal permeability, Second International Workshop on Strategies for oral Drug Delivery, Ascona, Switzerland, May 5-9, 1996
- D80 Improving the bioavailability of biotechnology drugs by the use of absorption enhancers. Studies in cell culture models, experimental animals and man, Biotechnology - from the gene to finished product, Stockholm, May 9-11, 1996
- D81 Experimental and theoretical predictions of intestinal drug absorption, SmithKline Beecham, King of Prussia, PA, USA, 31 July, 1996
- D82 Cell cultures in theoretical and experimental predictions of intestinal drug absorption, Boehringer Ingelheim, Ridgefield, USA, 17 October, 1996
- D83 Cell cultures in theoretical and experimental predictions of intestinal drug absorption, Pfizer Inc., Groton, USA, 18 October, 1996
- D84 Framtidens läkemedel och läkemedelsformer. Läkemedelskongressen, Stockholm, 11 November, 1996
- D85 Absorption över kroppens membran. Astra Arcus AB, Stockholm, 21 November, 1996
- D86 Improving the bioavailability of biotechnology drugs by the use of chitosans and other absorption enhancers. Department of Biotechnology, Norwegian University of Science and Technology, Trondheim, 5 December, 1996
- D87 Non-viral Gene Delivery . Pharmacia & Upjohn AB, Stockholm, 15 January 1997

- D88 Experimental and theoretical predictions of intestinal drug transport. School of Pharmacy, Department of Pharmaceutical Sciences, University of Southern California, Los Angeles, 7 March 1997
- D89 Läkemedelsabsorption genom kroppens membran. Apoteksbolaget, Stockholm, 13 March 1997
- D90 Supramolecular assemblies of plasmid DNA as gene delivery systems. Fysikalisk kemi, Uppsala universitet, February 1997
- D91 Cell culture models in studies of intestinal drug transport. Inst. klinisk farmakologi, Akademiska sjukhuset, Uppsala, February, 1997
- D92 Caco-2 monolayers in experimental and theoretical prediction of drug transport. Technologi Servier, Orléans, France, 27 March, 1997
- D93 Supramolecular assemblies of plasmid DNA as gene delivery systems. Centrum för bioteknologi, Huddinge sjukhus, 2 September, 1997
- D94 Prediction of intestinal drug absorption - Caco-2 and beyond. Zeneca Pharmaceuticals Ltd, Cheshire, 15 October, 1997
- D95 Prediction of intestinal drug absorption - Caco-2 and beyond. Medivir AB, Huddinge, 23 October, 1997
- D96 Prediction of intestinal drug absorption - Caco-2 and beyond. Wyeth Aerst, Princeton, 25-26 October, 1997
- D97 Supramolecular assemblies of plasmid DNA as gene delivery systems. College of Pharmacy, The University of Michigan, Ann Arbor, 28-29 October, 1997
- D98 Prediction of intestinal drug absorption - Caco-2 and beyond. Pharmacia & Upjohn, Kalamazoo, 29-30 October, 1997
- D99 Genterapi och DNA-vacciner. Nordic Lab Expo -97, Stockholm, 26-28 November, 1997
- D100 Theoretical prediction of intestinal drug permeability. SmithKline Beecham Pharmaceuticals, Harlow, UK, May 11, 1998.
- D101 Refined methods for prediction of intestinal drug absorption: Caco-2 and beyond. Pharmacia & Upjohn, Nerviano, Italy, September 11, 1998.
- D102 Non-viral vectors. Vector development for gene therapy. Karolinska Institute, Department of medicine, Huddinge University Hospital, Huddinge, Sweden, September 22, 1998.
- D103 Towards virtual screening of intestinal drug absorption. Takeda, Japan, April 22 - 25 , 1999

- D104 Towards virtual screening of intestinal drug absorption. Kanazawa University April 23, 1999
- D105 Non viral gene delivery. Pharmacia & Upjohn, April 27, 1999
- D106 Refined experimental and theoretical methods for prediction of intestinal drug absorption. Astra, Charnwood, Loughborough, May 11, 1999
- D107 Non viral vectors. The state of the art in gene therapy A graduate course. Karolinska institutet, Stockholm, September 20 – 24 1999.
- D108 Gene Vaccines. Rudbeckdagen, October 15, 1999
- D109 Experimental and Theoretical model for prediction of intestinal drug permeability – an update, AstraZeneca R & D, Lund, October 21, 1999.
- D110 Towards virtual screening of intestinal drug absorption. Du Pont Pharma, Wilmington, Delaware, November 12, 1999
- D111 New and better drugs faster – Rational approaches to prediction of human drugs absorption. Fujisawa, Japan, 9 June 2000
- D112 New and better drugs faster – Rational approaches to prediction of human drugs absorption. Daiichi, Japan, 12 June 2000
- D113 New and better drugs faster – Rational approaches to prediction of human drugs absorption. Sankyo, Japan, 13 June 2000 Sankyo
- D114 Drug absorption after oral administration. Aventis Pharma, Paris, France, 9 March 2001
- D115 Artursson, P. and Johansson, C.A.S. Computational prediction of drug uptake in human. Biostatistik, SLU, Uppsala, Sweden, November 21, 2001.
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- D117 Artursson, P. Non-viral gene therapy - Pharmaceutical aspects. Medical Products Agency, Uppsala, Mars, 2002.
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