

Detailed Poster List

P-01

Identification and characterization of imidazoles and thienothiazines as selective inhibitors of butyrylcholinesterase

*D. Karlsson*¹; *A. Fallarero*¹; *G. Brunhofer*¹; *P. Guzik*²; *M. Prinz*³; *U. Holzgrabe*³; *T. Erker*²; *P. Vuorela*¹

¹*Åbo Akademi University, Pharmaceutical Sciences, Department of Biosciences, Turku, Finland;*

²*University of Vienna, Department of Medicinal Chemistry, Vienna, Austria;* ³*University of Würzburg, Institute of Pharmacy and Food Chemistry, Würzburg, Germany*

P-02

In vitro and in silico pharmacological investigations of natural β 2-Adrenoceptors agonists

Aimun Ahmed AE.; *Arpad Marki*; *Robert Gaspar*; *George Falkay*

University of Szeged, Faculty of Pharmacy, Pharmacodynamics and Biopharmacy, Szeged, Hungary

P-03

Novel NSAID semicarbazide derivatives as potential anticancer and anti-inflammatory drugs

I Perkovic; *I Butula*; *B Zorc*

Faculty of Pharmacy and Biochemistry, Department of Medicinal Chemistry, Zagreb, Croatia

P-04

Preparation of new NSAID derivatives bearing hydroxysemicarbazide and carbonylhydrazide moiety

I Perkovic; *I Butula*; *B Zorc*

Faculty of Pharmacy and Biochemistry, Department of Medicinal Chemistry, Zagreb, Croatia

P-05

Potential antileishmanial activity of three medicinal plants

Ali E Eltayeb; *Kamal E. Ibrahim*

Faculty of Pharmacy, Chemistry, Khartoum, Sudan

P-06

evaluation of gastroprotective and antinociceptive effect of citral

Catarine Massucato Nishijima; *Ellen Geraldo Ganev*; *Lucia Regina Machado da Rocha*; *Clélia Akiko Hiruma Lima*

UNESP, Physiology, Botucatu, Brazil

P-07

Anti-biofilms compounds against *Staphylococcus aureus* infections: identification and characterization of hits from a natural derived library

*J Kujala*¹; *A Fallarero*¹; *M Rajaratnam*²; *J Yli-Kauhaluoma*²; *PM Vuorela*¹

¹*Åbo Akademi University, Department of Biosciences, Pharmaceutical Sciences, Turku, Finland;*

²*University of Helsinki, Faculty of Pharmacy, Division of Pharmaceutical Chemistry, Helsinki, Finland*

P-08

Sinergicity effect of the combination of arecoline and doxorubicin on HeLa cervical cancer cell line

Astrid Maruti

Universitas Gadjah Mada, Pharmacy, Yogyakarta, Indonesia

P-09

Alteration of cellular uptake of rosiglitazone in insulin resistant HepG2 cells by transfection ADN gene

*Enkhzaya Davaa*¹; Jung Jin Lee¹; Soon Gil Choi¹; Chang-Seon Myung¹; Jeong-Sook Park¹
Chungnam National University, College of Pharmacy, Daejeon, Republic of Korea

P-10

UDP-glucuronosyltransferases expression and activity in Caco-2 cells

*Hongbo Zhang*¹; Ari Tolonen²; Sanna Sissalo³; Timo Rousu²; Jouni Hirvonen³; Moshe Finel¹
¹Center for Drug Research, Faculty of Pharmacy, University of Helsinki, Helsinki, Finland; ²Novamass Ltd, Oulu, Finland; ³Division of Pharmaceutical Technology, Faculty of Pharmacy, University of Helsinki, Helsinki, Finland

P-11

Determination of some morphological properties of CPPs-Proteins complexes

*Saman Ahmad Nasrollahi*¹; Changiz Taghibiglou²; Rasoul Dinarvand¹; Effat Sadat Farboud¹; Ebrahim Azizi³
¹School of Pharmacy, Tehran University of Medical, Pharmaceutics, Tehran, Islamic Republic of Iran; ²University of Saskatchewan, Pharmacology, Saskatoon, Canada; ³School of Pharmacy, Tehran University of Medical, Pharmacology and Toxicology, Tehran, Islamic Republic of Iran

P-13

Molecular modelling study of alkylphosphocholines as anti-cancer agents

*M Malta de Sá*¹; KFM Pasqualoto¹; CO Rangel-Yagui¹
University of São Paulo, Department of Pharmacy, São Paulo, Brazil

P-14

Nonspecific binding in in-vitro studies of drug glucuronidation

*Nenad Manevski*¹; Paolo Svaluo Morelo²; Jari Yli-Kauhaluoma¹; Moshe Finel²
¹Faculty of Pharmacy, Helsinki University, Division of Pharmaceutical Chemistry, Helsinki, Finland; ²Faculty of Pharmacy, Helsinki University, Centre for Drug Research, Helsinki, Finland

P-15

In vitro cyclooxygenase inhibition by natural quinones and possible mechanism of their action

*Zsofia Kutil*¹; Veronika Temml²; Premysl Landa³; Jan Malik⁴; Ladislav Kokoska¹; Petr Marsik³; Daniela Schuster²; Tomas Vanek³; Marcela Dvorakova³
¹Czech University of Life Sciences Prague, Institute of Tropics and Subtropics, Department of Crop Sciences and Agroforestry, Prague, Czech Republic; ²University of Innsbruck, Institute of Pharmacy/Pharmaceutical Chemistry, Computer-Aided Molecular Design Group and Center for Molecular Biosciences, Innsbruck, Austria; ³Joint Laboratory of IEB AS CR, v.v.i., and Research Institute of Crop Production, v.v.i., Laboratory of Plant Biotechnologies, Prague, Czech Republic; ⁴Czech University of Life Sciences Prague, The Faculty of Agrobiology, Food and Natural Resources, Department of Zoology and Fisheries, Prague, Czech Republic

P-16

Two different organic solvents to produce sustained release HPMC microparticles for nasal delivery using co-precipitation technique

*Issraa Rasheed A. Al-Obaidi*¹; Howard N. E. Stevens¹; Fiona J. McInnes¹
Strathclyde Institute of Pharmacy and Biomedical Sciences, Drug Delivery/ Pharmaceutics, Glasgow, United Kingdom

P-17

Screening of excipients for stabilizing Semliki Forest virus vector during freeze-drying

*A Kauppinen*¹; VP Ruottinen¹; AP Karttunen¹; J Ruotsalainen²; R Pellinen²; K Järvinen¹; A Hinkkanen²; J Ketolainen¹

¹University of Eastern Finland, School of Pharmacy, Kuopio, Finland; ²University of Eastern Finland, Department of Biotechnology and Molecular Medicine, Kuopio, Finland

P-18

Production of ibuprofen particles with different shapes

*Andreia Cordeiro*¹; *João Sousa*²; *João Pinto*¹

¹iMed.UL - Faculdade de Farmácia, Universidade de Lisboa, Dept. Tecnologia Farmacêutica, Lisboa, Portugal; ²IDMEC - Instituto Superior Técnico, Universidade Técnica de Lisboa, Dept. de Engenharia Mecânica, Lisboa, Portugal

P-19

The applicability of sucrose laurate in hot-melt technology

*P. Láng*¹; *A. Szûts*¹; *R. Ambrus*¹; *L. Kiss*¹; *M. A. Deli*²; *P. Szabó-Révész*¹

¹University of Szeged, Pharmaceutical Technology, Szeged, Hungary; ²Institute of Biophysics, Biological Research Center, Hungarian Academy of Sciences, Laboratory of Molecular Neurobiology, Szeged, Hungary

P-20

Effect of formulation variables on physicochemical characteristics of synbiotic microparticles with *Lactobacillus casei*

*Tanja Petreska Ivanovska*¹; *Lidija Petrusevska-Tozi*¹; *Katarina Smilkov*²; *Emil Popovski*³; *Anita Grozdanov*⁴; *Nikola Geskovski*¹; *Rumenka Petkovska*¹; *Marija Glavas Dodov*¹; *Kristina Mladenovska*¹

¹University Ss Cyril and Methodius, Faculty of Pharmacy, Skopje, Macedonia, Fyrom; ²University Goce Delcev, Faculty of Medical Sciences - Pharmacy, Stip, Macedonia, Fyrom; ³University Ss Cyril and Methodius, Faculty of Natural Sciences and Mathematics, Skopje, Macedonia, Fyrom; ⁴University Ss Cyril and Methodius, Faculty of Technology and Metallurgy, Skopje, Macedonia, Fyrom

P-21

Synthesis and characterization of peg-g-chitosan and their use as nanoparticle delivery system for BSA

Sofia A Papadimitriou; *Dimitrios N Bikiaris*; *Dimitrios S Achilias*

Aristotle University of Thessaloniki, Department of Chemistry, Thessaloniki, Greece

P-22

Preparation of amorphous calcium phosphate stabilised by acid hydrolysed carboxy methyl cellulose fractions

Mohammed Sabar Al-Lami; *Chris van der Walle*; *Clive Wilson*

University of Strathclyde, Strathclyde Institute of Pharmacy and Biomedical Sciences, Glasgow, United Kingdom

P-23

Preparation of positively charged polymeric micelles for nasal administration

*Emine Kahraman*¹; *Ayşe Karagoz*²; *Sevil Dincer*²; *Yildiz Ozsoy*¹

¹Istanbul University, Pharmaceutical Technology, Istanbul, Turkey; ²Yildiz Technical University, Bioengineering, Istanbul, Turkey

P-24

Preparation of fast Disintegrating micro-pellets using ludiflash® and functional additives

Simone Schrank; *Petra Heidinger*; *Eva Roblegg*

Karl Franzens University, Graz, Austria, Institute of Pharmaceutical Sciences, Department Pharmaceutical Technology, Graz, Austria

P-25

Development and evaluation of a novel dosage form of diclofenac sodium using ethylene vinyl acetate copolymer and sodium starch glycolate against voltaren® retard (in-vitro/in-vivo study)

*S Al-Nimry*¹; *K AlKhamis*¹; *H Ibrahim*²; *M Salem*¹

¹Jordan University of Science and Technology, Irbid, Jordan; ²ACDIMA, Amman, Jordan

P-26

The use of recrystallization technique for preparation of spherical agglomerates containing disintegrating agent

*Omid Taghizadeh*¹; *Maryam Maghsoodi*¹; *Babak Ardalani*²; *Ali Nokhodchi*³

¹School of Pharmacy and Drug Applied Research Center, Tabriz University of Medical Sciences, pharmaceuticals, Tabriz, Islamic Republic of Iran; ²School of Pharmacy and Drug Applied Research Center, Tabriz University of Medical Sciences, Saghez, Islamic Republic of Iran; ³Medway School of Pharmacy, The Universities of Kent and Greenwich, pharmaceuticals, London, United Kingdom

P-27

Development of matrix pellets prepared by extrusion and spheronization of Atenolol and alkalinizing component to enhance bioavailability

Elnazeer I. HamedelnieL; *Bajdik János*; *Klára Pintye-Hódi*

University of Szeged, Pharmaceutical Technology, Szeged, Hungary

P-28

Particle size reduction of niflumic acid using disintegration and integration methods

T. Szunyogh; *R. Ambrus*; *P. Szabó-Révész*

University of Szeged, Department of Pharmaceutical Technology, Szeged, Hungary

P-29

FBRM as a PAT tool for in-line monitoring of particle growth kinetics in wet granulation processes

*Firas Alshihabi*¹; *Thierry Vandamme*²; *Betz Gabriele*¹

¹University of Basel, Pharmaceutical Technology, Basel, Switzerland; ²Université de Strasbourg, Faculté de Pharmacie, équipe de Pharmacie Biogalénique, Strasbourg, France

P-30

Poly(vinyl acetat) and polystyrene drug delivery systems for indometacin

*V. Andonova*¹; *G. Georgiev*²; *V. Toncheva*²; *M. Kassarova*¹

¹Medical University Plovdiv, Faculty of Pharmacy, Department of Pharmaceutical sciences, Plovdiv, Bulgaria; ²Sofia University „St. Kliment Ohridski“, Faculty of Chemistry, Sofia, Bulgaria

P-31

Calcium-stearate micro-pellets: impact of drying on final pellet characteristics

*Simone Schrank*¹; *Johannes Khinast*²; *Andreas Zimmer*¹; *Daniela Reischl*³; *Eva Roblegg*¹

¹Karl Franzens University, Graz, Austria, Institute of Pharmaceutical Sciences, Department Pharmaceutical Technology, Graz, Austria; ²Graz University of Technology, Institute for Process and Particle Engineering, Graz, Austria; ³Research Center Pharmaceutical Engineering, Graz, Austria

P-32

Development and validation of a capillary electrophoresis method with capacitively coupled contactless conductivity detection (CE-C4D) for the analysis of Tobramycin and its related impurities

Mohamed El-Attug; *Jos Hoogmartens*; *Erwin Adams*; *Ann Van Schepdael*

Katholieke Universiteit Leuven, Pharmaceutical Analysis, Leuven, Belgium

P-33

Simultaneous quantification of phosphatidylcholine and cholesterol in liposomes using NIR spectroscopy and chemometry

A.S. Porfire; I. Tomuta; L. Tefas; M. Achim; S.E. Leucuta

University of Medicine and Pharmacy „Iuliu Hatieganu”, Department of Pharmaceutical Technology and Biopharmaceutics, Cluj-Napoca, Romania

P-34

Evaluation of chemical stability of fluconazole

J.C.R Correa¹; C. Reichman¹; C.D. Vianna-Soares²; H.R.N. Salgado¹

¹Universidade Estadual Paulista - UNESP, Araraquara, Brazil; ²Universidade Federal de Minas Gerais - UFMG, Belo Horizonte, Brazil

P-35

High-throughput NIR-chemometric method for chemical and physical characterization of indapamide tablets

IOAN TOMUTA¹; Rares Iovanov¹; Lucia Rus²; Loredana Andreea Vonica³; Sorin Leucuta¹

¹University of Medicine and Pharmacy "Iuliu Hatieganu" Cluj-Napoca, Pharmaceutical Technology and Biopharmaceutics, Cluj-Napoca, Romania; ²University of Medicine and Pharmacy "Iuliu Hatieganu" Cluj-Napoca, Drug Analysis, Cluj-Napoca, Romania; ³Polipharma INDUSTRIES, Cluj-Napoca, Romania

P-36

Characterization of drug and liposome interactions

U Trettenes; A Bauer-Brandl; B Klösger

University of Southern Denmark, Department of Physics and Chemistry, Odense, Denmark

P-37

Development and characterization of effective topical liposomal system for localized delivery against cutaneous candidiasis

Madhu Gupta; Suresh P. Vyas

Dr. H.S.Gour V.V. Sagar, Department of Pharmaceutical Sciences, Sagar, India

P-38

Biopharmaceutic classification of amlodipine benzylate: solubility determination

Rafael Leal Monteiro Paraiso; Marina de Freitas Silva; Valentina Porta

University of Sao Paulo, Pharmaceutical Sciences, São Paulo, Brazil

P-39

Development of *in-silico* model by using theoretical and experimental investigations of silicone matrix systems

Berghóra Snorradóttir¹; Rut Gudmundsdóttir²; Fjóla Jónsdóttir²; Tryggvi Ólafsson¹; Freygardur Thorsteinsson³; Palmar Gudnason³; Már Másson¹

¹University of Iceland, Faculty of Pharmaceutical Sciences, Reykjavik, Iceland; ²University of Iceland, Faculty of Industrial Engineering, Mechanical Engineering and Computer Science, Reykjavik, Iceland; ³Össur hf., Reykjavik, Iceland

P-40

Modelling of pharmaceutical tablet swelling and dissolution using discrete element method

J Kimber¹; S Kazarian¹; F Stepanek²

¹Imperial College London, Chemical Engineering and Chemical Technology, London, United Kingdom; ²Institute of Chemical Technology, Prague, Czech Republic

P-42

Pharmacokinetic/Pharmacodynamic modeling & simulation of decursin derivative JHL45 for development of anti-atopic dermatitis agent

*Dong-hyun Kim*¹; *In-hwan Baek*²; *Jung-woo Chae*¹; *Gyu-yong Song*¹; *Kwang-il Kwon*¹
¹College of pharmacy, Chungnam National University, Daejeon, Republic of Korea; ²Incrementally Modified Drug (IMD), Yuhan research Institute 416-1, Gongse-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea

P-43

Nanosuspensions of poorly soluble drugs for improved dissolution: preparation and development by wet milling

*Peng Liu*¹; *Xinyu Rong*²; *Johanna Laru*³; *Bert Van Veen*³; *Juha Kiesvaara*³; *Jouni Hirvonen*¹; *Timo Laaksonen*¹; *Leena Peltonen*¹

¹Division of Pharmaceutical Technology, Faculty of Pharmacy, University of Helsinki, Helsinki, Finland;
²Department of Pharmacy, College of Chemical and Pharmaceutical Engineering, Hebei University of Science and Technology, Shijiazhuang, China; ³Orion Pharma R&D, Formulation Research, Helsinki, Finland

P-44

Effect of the microsphere production methods on *in-vitro* particle characteristics: comparison of w/o/w and s/o/w emulsion - solvent evaporation techniques

Umut Can Oz; *Kandemir Canefe*

Ankara University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, Turkey

P-45

Release profiles of naproxen-loaded, chitosan oligosaccharide treated alginate-microparticles prepared in the two-stage procedure

*N Cekic*¹; *B Calija*²; *S Savic*²; *M Savic*³; *J Milic*²

¹DCP Hemigal, R&D Sector, Leskovac, Serbia; ²Faculty of Pharmacy, Department of Pharmaceutical Technology and Cosmetology, Belgrade, Serbia; ³Faculty of Pharmacy, Department of Pharmacology, Belgrade, Serbia

P-46

Raloxifene pharmacogenetics: translation from in vitro to in vivo

*T Trdan*¹; *A Mrhar*¹; *J Trontelj*¹; *B Stieger*²; *A Zavrtnik*³; *J Marc*⁴; *B Ostanek*⁴

¹University of Ljubljana, Faculty of Pharmacy, Department of Biopharmacy and Pharmacokinetics, Ljubljana, Slovenia; ²University Hospital, Department of Clinical Pharmacology and Toxicology, Zürich, Switzerland; ³University Medical Centre, Department of Endocrinology, Maribor, Slovenia; ⁴University of Ljubljana, Faculty of Pharmacy, Department of Clinical Biochemistry, Ljubljana, Slovenia

P-47

A quantitative demonstration of heterogeneity between contact and non-contact measurements of tablet height and diameter

B.X. Tan; *C.V. Liew*; *P.W.S. Heng*

National University of Singapore, Department of Pharmacy, Singapore, Singapore

P-48

Study of hydration states and water disposition in the piperazine phosphate hyper-hydrate

Mosè Santaniello; *Marco Quaglia*; *Grazia Gallo*; *Gianandrea Quattrococchi*; *Walter Cabri*
Sigma-tau, Roma, Italy

P-49

Effect of relative humidity on storage of olanzapine polymorphs

*Maria Paisana*¹; *Martin Wahl*²; *João Pinto*¹

¹iMed.UL - Faculdade de Farmácia, Universidade de Lisboa, Tecnologia Farmacêutica, Lisboa, Portugal;
²Eberhard Karls Universität Tübingen, Pharmazeutisches Institut, Tübingen, Germany

P-50

Amorphous form in the pharmaceutical technological research

*Cs. Mártha ; O. Jójárt-Laczkovich ; P. Szabó-Révész
University of Szeged, Pharmaceutical Technology, Szeged, Hungary*

P-51

Thermally processed solid dispersions of Griseofulvin in Eudragit® L100-55 as an approach for solubility enhancement

*R Bennett¹; J Hughey¹; J Keen¹; C Brough²; J McGinity¹
¹University of Texas at Austin, Pharmaceutics, Austin, Texas, United States; ²DisperSol Technologies, Austin, Texas, United States*

P-52

Formulation of Eudragit EPO coated Ibuprofen sodium - comparative properties between fluid bed and spray drying techniques

*Dejan Kostovski¹; Nikola Geskovski²; Marija Glavas Dodov²; Liljana Krsteska¹; Sonja Ugarkovic¹
¹Alkaloid AD, Research & Development, Skopje, Macedonia, Fyrom; ²Faculty of Pharmacy, Center for Pharmaceutical Nanotechnology, Skopje, Macedonia, Fyrom*

P-53

Preparation and Characterization of Self Emulsifying Drug Delivery System for water insoluble compound

*A G Agrawal¹; Kumar Ashok¹; P S Gide²
¹Cachet Pharmaceuticals Pvt. Ltd., Alkem group, INDIA, Formulation Research and Development, Bhiwadi, Near New Delhi, India; ²MET's Institute of Pharmacy, Bhujbal Knowledge City, Adgaon, Nashik - 422 003, India., Principal, Nashik, India*

P-54

Studies on novel sustained release quetiapine fumarate from matrix tablet formulations

*Deepak Sahu
Geetnjali Institute of Pharmacy, Pharmaceutics, Udaipur, India*

P-55

Development of temozolomide dry powders for inhalation for the treatment of lung tumours

*Nathalie Wauthoz¹; Philippe Deleuze¹; Amandine Saumet¹; Christophe Duret¹; Robert Kiss²; Karim Amighi¹
¹Université Libre de Bruxelles, Laboratory of Pharmaceutics and Biopharmaceutics, Brussels, Belgium; ²Université Libre de Bruxelles, Laboratory of Toxicology, Brussels, Belgium*

P-56

Production, characterization and *in vitro* deposition of budesonide loaded poly(lactic acid) nanoparticles for nebulization

*Mohammad Ali Amini¹; Amir Amani²; Elina Esmaeilzadeh Gharedaghi²; Mohammad Ali Faramarzi³
¹Islamic Azad University, Karaj branch; Young Researchers Club, Department of Microbiology, Karaj, Islamic Republic of Iran; ²Tehran University of Medical Sciences, Department of medical Nanotechnology, Tehran, Islamic Republic of Iran; ³University of Medical Sciences, Department of Pharmaceutical Biotechnology, Tehran, Islamic Republic of Iran*

P-57

Improving pharmaceutical performance of spray dried powders by using nano particle additives

*J Hellrup¹; J Hellrup¹; G Alderborn¹; G Alderborn¹; D Mahlin¹; D Mahlin¹
Uppsala University, Department of Pharmacy, Uppsala, Sweden*

P-58

Validation of the bronchial epithelial cell line, VA10, as a permeation enhancer model for N,N,N-trimethyl chitosan

B.E. Benediktsdottir¹; A.J. Arason²; Th. Gudjonsson²; M. Masson¹; O. Baldursson³

¹University of Iceland, Faculty of Pharmaceutical Sciences, Reykjavik, Iceland; ²University of Iceland, Stem Cell Research Unit, Biomedical Center, Reykjavik, Iceland; ³Landspítali University Hospital, Chief Medical Executive, Reykjavik, Iceland

P-59

Formulation of solid lipid microparticles as system for pulmonary administration using a supercritical fluid process

A Berton ; G Piel ; B Evrard ; A Gillet

University of Liege, Laboratory of Pharmaceutical Technology, Liège, Belgium

P-60

Chitosan and its trimethyl derivative as a carrier for mucosal virus delivery in guinea pig

Mohammad Ali Amini¹; Ali Rezaei Mokarram²; Farzaneh Tajdini³; Morteza Taghizadeh²; Hamideh Amini⁴

¹Islamic Azad University, Karaj branch; Young Researchers Club, Department of Microbiology, Karaj, Islamic Republic of Iran; ²Razi Vaccine and Serum research Institute, Department of Biotechnology, Karaj, Islamic Republic of Iran; ³Islamic Azad University, Karaj branch, Department of Microbiology, Karaj, Islamic Republic of Iran; ⁴Islamic Azad University, North Tehran branch, Department of Microbiology, Tehran, Islamic Republic of Iran

P-61

Nanoparticle vaccine against *Shigella flexneri* in mice

A.I. Camacho¹; J. De Souza¹; S. Sanchez-Gomez¹; J.M. Irache²; C. Gamazo¹

¹University of Navarra, Microbiology, Pamplona, Spain; ²University of Navarra, Pharmacy and Pharmaceutical Technology, Pamplona, Spain

P-62

Evaluation of a mucosal vaccine of *Streptococcus equi* antigens encapsulated in liposomes

L. Figueiredo ; A. Cadete ; L.M.D. Gonçalves ; M.L. Corvo ; A.J. Almeida

iMed.UL – Research Institute for Medicines and Pharmaceutical Sciences, Faculdade de Farmácia, Universidade de Lisboa, Lisbon, Portugal

P-63

Topical application of liposomes: parameters influencing their effectiveness

A Gillet¹; F Lecomte¹; P Hubert²; Ph Compère³; B Evrard¹; G Piel¹

¹University of Liège, Pharmacy, Liège, Belgium; ²University of Liège, Giga-Cancer, Liège, Belgium; ³University of Liège, Sciences and Environmental Management, Liège, Belgium

P-64

Sustained release from HPMC/metformin microparticles for nasal delivery, manufactured using an aqueous-organic precipitation technique

Issraa Rasheed A. Al-Obaidi¹; Howard N. E. Stevens²; Fiona J. McInnes²

¹Strathclyde Institute of Pharmacy and Biomedical Sciences, Drug Delivery/ Pharmaceuticals, Glasgow, United Kingdom; ²Strathclyde Institute of Pharmacy and Biomedical Sciences (SIPBS), Drug Delivery/ Pharmaceuticals, Glasgow, United Kingdom

P-65

Liposomal mupirocin: on the way to improved wound and burns therapy

J. Hurler ; O.A. Berg ; M. Skar ; A.H. Conradi ; P.J. Johnsen ; N. Skalko-Basnet

University of Tromsø, Pharmacy, Tromsø, Norway

P-66

Formulation of a sunscreen product using β -cyclodextrine and evaluation of its penetration through rat skin

Farhad Kiafar; Javad Shokri; Mohammad Reza Siahi; Hadi Valizadeh; Mina Dizaji
Tabriz University of Medical Sciences, Department of Pharmaceutics, Tabriz, Islamic Republic of Iran

P-67

Optimisation of the pharmaceutical characteristics of mucoadhesive buccal gels based on thermosensitive polymers for the treatment of alveolar osteitis

E. Dinte; I. Tomuta; R.I. Iovanov; E. Mut; S.E. Leucuta
Iuliu Hatieganu University, Pharmaceutical Technology and Biopharmaceutics, Cluj-Napoca, Romania

P-68

Desing and evaluation of chitosan buccal discs

Gulin Amasya; Tangul Sen; Nilufer Tarimci
Ankara University Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, Turkey

P-69

Optimization of silicone drug delivery matrix with experimental design and *in vitro* transdermal permeations studies

Berghóra Snorradóttir¹; Freygardur Thorsteinsson²; Palmar Guðnason²; Már Másson¹
¹University of Iceland, Faculty of Pharmaceutical Sciences, Reykjavik, Iceland; ²Össur hf., Reykjavik, Iceland

P-70

Transport studies of polystyrene nanoparticles across the buccal mucosa

Birgit Teubl¹; Eleonore Fröhlich²; Andreas Zimmer¹; Eva Roblegg¹
¹Karl Franzens University, Graz, Austria, Institute of Pharmaceutical Sciences, Department Pharmaceutical Technology, Graz, Austria; ²Medical University of Graz, Austria, Center for Medical Research, Graz, Austria

P-71

Niosomes as a potential ocular delivery system for the opioid growth factor antagonist – naltrexone hydrochloride : influence of vesicular encapsulation on photooxidation

R G Alany; H Abdelkader; Z Wu; R Al-Kassas
University of Auckland, School of Pharmacy, Auckland, New Zealand

P-72

Thermoreversible *in situ* gelling solutions for ophthalmic delivery of pilocarpine hydrochloride

Yagiz Anasiz¹; Berrin Kucukturkmen²; Asuman Bozkir²
¹Ankara University Faculty of Pharmacy, Ankara, Turkey; ²Ankara University Faculty of Pharmacy, Pharmaceutical Technology, Ankara, Turkey

P-73

Optimized ophthalmic phase transforming hydrogel and evaluation

Vinod Singh¹; S. Appala Raju²; S. Sharan Bushetti³; Rizwan Ahmad⁴; Mamta Farswan Singh⁵
¹Sardar Bhagwan Singh PG Institute of biomedical Sciences and Research, Department of Pharmaceutics, Dehradun, India; ²HKEs college of pharmacy, Department of Pharmaceutical Chemistry, Gulbarga, India; ³HKEs college of pharmacy, Department of Pharmaceutics, Gulbarga, India; ⁴Oman Medical College, Department of Human Functioning, Sohar, Oman; ⁵Sardar Bhagwan Singh PG Institute of biomedical Sciences and Research, Department of Pharmacology, Dehradun, India

P-74

Evaluation of mucoadhesive ocular inserts in a model of corneal lesion in albino rabbit: a preliminary study

*Nadia Nicosia ; E Egiziano ; G Doveri ; S Tampucci ; S Burgalassi ; D Monti ; P Chetoni
University of Pisa, Pharmaceutical Sciences, Pisa, Italy*

P-75

Spatial variation in the viscoelastic properties of the vitreous humour: impact on ocular drug delivery

L E Tan¹; F Watts²; A Wright²; M Tassieri³; J Girkin⁴; C Wilson¹

¹University of Strathclyde, Strathclyde Institute of Pharmacy and Biomedical Sciences, Glasgow, United Kingdom; ²University of Strathclyde, Institute of Photonics, SUPA, Glasgow, United Kingdom; ³University of Glasgow, Division of Biomedical Engineering, School of Engineering, Glasgow, United Kingdom; ⁴University of Durham, Department of Physics, Durham, United Kingdom

P-76

Determination of factors affecting the chitosan nanoparticles size produced by sonication method using Artificial Neural Networks (ANNs)

Elina Esmaeilzadeh-Gharedaghi¹; Amir Amani¹; Mohammad Ali Amini²; Mohammad Ali Faramarzi³

¹Tehran University of Medical Sciences, Department of Medical Nanotechnology, Tehran, Islamic Republic of Iran; ²Islamic Azad University, Karaj branch; Young Researchers Club, Department of Microbiology, Karaj, Islamic Republic of Iran; ³Tehran University of Medical Sciences, Department of Pharmaceutical Biotechnology, Tehran, Islamic Republic of Iran

P-78

Development of finasteride liquid crystalline nanoparticles for the topical application: preparation, characterization and in-vitro release study

*Renqarajan Baskaran ; Thiagarajan Madheswaran ; Raj Kumar Thapa ; Chul-Soon Yong ; Bong-Kyu Yoo
yeungnam University, Pharmacy, Gyeongsangbuk-Do, Republic of Korea*

P-81

Characterization of labelled fluorescent nanoparticles for SiRNA delivery

C. Zandanel ; C. Vauthier

Univ Paris-Sud, Physico-chimie, Pharmacotechnie, Biopharmacie. CNRS, UMR 8612, Chatenay Malabry, France

P-82

Photoluminescent diamond nanoparticles as vectors for short nucleic acids delivery in cells, in the context of Ewing Sarcoma disease

Anna Alhaddad¹; Géraldine Dantelle²; Marie-Pierre Adam³; Christelle Mansuy⁴; Claude Malvy¹; François Treussart³; Jean-Rémi Bertrand¹

¹CNRS UMR 8203, CNRS, Villejuif, France; ²laboratoire de physique de la matière condensée, Ecole polytechnique, Palaiseau, France; ³UMR 8537, Ecole Normale Supérieure de Cachan, Cachan, France; ⁴CNRS UMR 7613, Paris, France

P-83

SPIONs-loaded PLGA nanoparticles: formulation, characterization and in vitro evaluation on Caco-2 and T47-D cells

Kocbek Petra¹; Plemenitaš Marjetka¹; Kralj Slavko²; Makovec Darko²; Kristl Julijana¹

¹UL - Faculty of Pharmacy, Pharmaceutical Technology, Ljubljana, Slovenia; ²Jožef Stefan Institute, Ljubljana, Slovenia

P-84

Formulation of solid lipid nanoparticles with resveratrol for treatment of rheumatoid arthritis

J Pelipenko ; K Teskac Plajnssek ; J Kristl

University of Ljubljana, Faculty of Pharmacy, Pharmaceutical technology, Ljubljana, Slovenia

P-85

Development of a mucoadhesive nanoparticulate drug delivery system for a targeted drug release in the bladder

Jan Barthelmes; Glen Perera; Juliane Hombach; Sarah Dünnhaupt; Andreas Bernkop-Schnürch
University of Innsbruck, Pharmaceutical Technology, Innsbruck, Austria

P-86

Development of Dexamethasone-loaded Nanostructured Lipid Carriers (NLC) for Nebulization

S. Weber¹; J. Pardeike²; H.P. Zarfl³; A. Zimmer²

¹Research Center Pharmaceutical Engineering GmbH, Graz, Austria; ²Institute of Pharmaceutical Sciences, Department of Pharmaceutical Technology, Graz, Austria; ³Private Veterinary Surgery, Wolfsberg, Austria

P-87

Enhanced anti tumoral activity of methotrexate-human serum albumin conjugated nanoparticles by targeting with LHRH peptide

Azade Taheri¹; Rassoul Dinarvand¹; Fatemeh Atyabi¹; Fatemeh Ahadi¹; Atefe Taheri²; Pooria Mansoori³

¹Tehran University of Medical Sciences, Faculty of Pharmacy, Department of Pharmaceutics, Tehran, Islamic Republic of Iran; ²Tehran University of Medical Sciences, Faculty of Dentistry, Department of Pathology, Tehran, Islamic Republic of Iran; ³Jondishapour University of Medical Sciences, Faculty of Medicine, Department of Radiology, Ahwaz, Islamic Republic of Iran

P-88

Effects of Raloxifene on matrix synthesis of osteoarthritis-like chondrocytes

Aysegül Kavas¹; Seda Tuncay²; Dilek Keskin¹; Sreeparna Banerjee²; Aysen Tezcaner¹

¹Middle East Technical University, Department of Engineering Sciences, Ankara, Turkey; ²Middle East Technical University, Department of Biological Sciences, Ankara, Turkey

P-89

Chitosan oleate micelles intended for the treatment of infected wounds

M.C. Bonferoni; G. Sandri; E. Dellerà; S. Rossi; F. Ferrari; M. Mori; C. Caramella
University of Pavia, Department of drug sciences, Pavia, Italy

P-90

Inkjet printing of pharmaceuticals

Natalja Genina¹; Niklas Sandler¹; Anni Määttä²; Petri Ihalainen²; Leif Kronberg³; Axel Meierjohann³; Tapani Viitala⁴; Jouko Peltonen²

¹Åbo Akademi University, Department of Biosciences, Turku, Finland; ²Åbo Akademi University, Center for Excellence for Functional Materials, Laboratory of Paper Coating and Converting, Turku, Finland; ³Åbo Akademi University, Laboratory of Organic Chemistry, Turku, Finland; ⁴University of Helsinki, Faculty of Pharmacy, Division of Biopharmaceutics and Pharmacokinetics, Turku, Finland

P-92

Rheological properties of polymer solutions and their correlation to nanofiber formation by electrospinning

R. Rosić; J. Pelipenko; S. Baumgartner; J. Kristl

University of Ljubljana, Faculty of Pharmacy, Department of Pharmaceutical Technology, Ljubljana, Slovenia

P-93

Effects of doxycycline delivery from PCL microspheres in a three-dimensional culture

Ozlem Aydin; Aysen Tezcaner; Dilek Keskin

Middle East Technical University, Department of Engineering Sciences, Ankara, Turkey

P-94

Influences of excipients on properties of immunoglobulin G loaded poly (ϵ -caprolactone) microspheres

O Erdemli; D Keskin; A Tezcaner

Middle East Technical University, Engineering Sciences, Ankara, Turkey

P-96

A thermosensitive PluronicF 127-based hydrogel for buccal delivery of paclitaxel

Soon Gil Choi¹; Eun Jeong Baek²; Enkhzaya Davaa¹; Kang Moo Huh²; Jeong-Sook Park¹

¹Chungnam National University, College of Pharmacy, Daejeon, Republic of Korea; ²Chungnam National University, Department of Polymer Science and Engineering, Daejeon, Republic of Korea

P-97

Antioxidant activity of citrullus lanatus seeds (watermelon seeds)

Gurpreet Singh Bal¹; Naresh Singh Gill¹; Raman Kumar²

¹Rayat Institute of Pharmacy, Pharmacy, Shaheed Bhagat Singh Nagar (Punjab), India; ²Rayat Institute of Pharmacy, Pharmacy, Shaheed Bhagat Singh Nagar(PB), India

P-98

Preparation and stability of spray-dried SLNs for local colon delivery of Budesonide

H Litovin¹; K Goracinova¹; N Geskovski¹; M Simonoska Crcarevska¹; K Mladenovska¹; M Glavas Dodov²

¹Faculty of Pharmacy, Institute of Pharmaceutical Technology, Skopje, Macedonia, Fyrom; ²Faculty of Pharmacy, Center of Pharmaceutical Nanotechnology, Skopje, Macedonia, Fyrom

P-99

Investigation of antiproliferative effect of estrone-16-oxime ethers in vitro

A. Berényi¹; Gy. Schneider²; J. Wölfling²; I. Ocsovszki³; I. Zupkó¹

¹University of Szeged, Department of Pharmacodynamics and Biopharmacy, Szeged, Hungary;

²University of Szeged, Department of Organic Chemistry, Szeged, Hungary; ³University of Szeged, Department of Biochemistry, Szeged, Hungary

P-100

Newly synthesized fluocinolone acetonide C-21 esters: Kinetics of solvolysis and correlation between solvolytic rate constants and carbonyl carbon charges

B Markovic¹; V Dobricic¹; S Vladimirov¹; O Cudina¹; V Savic²; K Karljickovic-Rajic³

¹Faculty of Pharmacy, University of Belgrade, Department of Pharmaceutical Chemistry, Belgrade, Serbia;

²Faculty of Pharmacy, University of Belgrade, Department of Organic Chemistry, Belgrade, Serbia;

³Faculty of Pharmacy, University of Belgrade, Department of Analytical Chemistry, Belgrade, Serbia

P-101

Pegylated self- assembling nanoparticles as carriers of contrast agents

Mohammad Othman¹; Didier Desmaele¹; Patrick Couvreur¹; Philippe Durand²; Ruxandra Gref¹

¹UMR CNRS 8612, Chatenay Malabry, France; ²ICSN, GIF Sur Yvette, France

P-102

New tricyclic pyrazole derivatives as CB1 antagonists having improved activity toward food intake and weight control

Paolo Lazzari¹; Andrea Mastinu²; Marilena Pira³; Luca Pani³; Gabriele Murineddu⁴; Gerard-Aime Pinna⁴; Marilena Pira⁵; Andrea Mastinu⁶

¹Universita' Di Sassari; Neuroscienze Pharmaness Scarl; Kemotech Srl, Pula (CA), Italy; ²Neuroscienze Scarl; CNR-IFT, Pula (CA), Italy; ³CNR-IFT, U.O.S. Cagliari, Pula (CA), Italy; ⁴Universita' Di Sassari,

Scienze del Farmaco, Sassari, Italy; ⁵Universita' Di Sassari; Pharmaness Scarl; CNR-IFT, Pula (CA), Italy;

⁶Pharmaness Scarl; CNR-IFT, Pula (CA), Italy

P-103

Preparation and biopharmaceutical evaluation of tacrolimus loaded biodegradable nanoparticles for liver targeting

S. Tammam¹; S Mathur²; N. Afifi³

¹German University in Egypt (GUC), Pharmaceutical Technology, Cairo, Egypt; ²Faculty of Mathematics and Natural Sciences, University of Cologne, Institute of Inorganic Chemistry, Cologne, Germany;

³German University in Cairo (GUC), Pharmaceutical Technology, Cairo, Egypt

P-104

Poly (Propylene Imine) (PPI) dendrimer mediated targeted lung delivery of anticancer bioactive

D. Kurmi Balak; Gajbhiye Virendra ; Gupta Umesh ; K. Jain Narendra

Dr. H. S. Gour University, Sagar, Dept. of Pharm. Science, Sagar, India

P-105

Artemisinin-loaded liposomes towards free artemisinin: improved pharmacokinetic profile and antimalarian activity

Benedetta Isacchi¹; Silvia Arrigucci¹; Alessia Pietretti²; Giancarlo la Marca¹; Maria Giuliana Vannucchi¹; Carlo Severini²; Andrea Novelli¹; Maria Camilla Bergonzi¹; Anna Rita Bilia¹

¹University of Florence, Florence, Italy; ²Istituto Superiore di Sanità, Rome, Italy

P-106

Transferrin conjugated liposomes for Artemisinin delivery to cancer cells: enhanced selectivity and activity

Chiara Righeschi ; Maria Camilla Bergonzi ; Benedetta Isacchi ; Anna Rita Bilia

University of Florence, Sesto Fiorentino (Florence), Italy

P-107

Spray-dried microspheres as controlled release systems for oral delivery of thymol

Giovanna Rassu ; Maria Nieddu ; Gianpiera Spada ; Giampiero Boatto ; Elisabetta Gavini

University of Sassari, Department of Drug Sciences, Sassari, Italy

P-108

Design and characterization of cetuximab immunonanoparticles prepared using a novel linker molecule

N. Karra¹; T. Nassar¹; J. Borlak²; S. Benita¹

¹The Institute for Drug Research of the School of Pharmacy, Faculty of Medicine, The Hebrew University of Jerusalem, Jerusalem, Israel; ²Fraunhofer Institute of Toxicology and Experimental Medicine, Center of Pharmacology and Toxicology, Medical School of Hannover, Hannover, Germany

P-109

Evaluation of anionic half generation 3.5-6.5 poly(amidoamine) dendrimers as delivery vehicles for the active component of the anticancer drugs cisplatin

G.J Kirkpatrick¹; O.B. Sutcliffe¹; D.J. Flint²; J.A. Plumb³; N.J. Wheate²

¹University of Strathclyde, Strathclyde Institute of Pharmacy and Biomedical Sciences, Glasgow, United Kingdom; ²University of Strathclyde, Strathclyde Institute of Pharmacy and Biomedical Sciences, Glasgow, United Kingdom; ³The Beatson Institute for Cancer Research, Glasgow, United Kingdom

P-110

Preliminary evaluation of liposomes radiolabeled with ¹⁵⁹Gd as therapeutic radiopharmaceutical

Daniel Soares¹; Mônica de Oliveira¹; Valbert Cardoso²; Gilson Ramaldes¹

¹Universidade Federal de Minas Gerais, Produtos Farmacêuticos, Belo Horizonte, Brazil; ²Universidade Federal de Minas Gerais, Análises Clínicas e Toxicológicas, Belo Horizonte, Brazil

P-111

Liposomes radiolabeled with 159Gd: In vitro cytotoxicity activity and scintigraphic image in tumor bearing mice

Daniel Soares¹; Mônica de Oliveira¹; Valbert Cardoso²; Gilson Ramaldes¹

¹Universidade Federal de Minas Gerais, Produtos Farmacêuticos, Belo Horizonte, Brazil; ²Universidade Federal de Minas Gerais, Análises Clínicas e Toxicológicas, Belo Horizonte, Brazil

P-112

Decrease in nocifensive behavior in rats after treatment with the EAAT-2 transporter inducer, ceftriaxone

L Eljaja¹; O. J. Bjerrum¹; P.H. Honoré¹; A Nejadi¹; B Abramsen²

¹University of Copenhagen, Pharmacology and Pharmacotherapy, Copenhagen, Denmark; ²University of Copenhagen, Medicinal Chemistry, Copenhagen, Denmark

P-113

The alteration of the aquaporin receptors in the late pregnant rat uterus and preterm delivery

E. Ducza; AB. Seres; R. Gáspár; G. Falkay

University of Szeged, Department of Pharmacodynamics and Biopharmacy, Szeged, Hungary

P-114

Building new ligands for β_2 adrenergic receptor with AutoGrow

Árpád Márki

University of Szeged, Department of Pharmacodynamics and Biopharmacy, Szeged, Hungary

P-115

New glutamic acid-based MurD ligase inhibitors as potential antibacterial agents

Tihomir Tomašič; Roman Šink; Andreja Kovač; Stanislav Gobec; Anamarija Zega; Danijel Kikelj;

Lucija Peterlin Mašič

University of Ljubljana, Faculty of Pharmacy, Pharmaceutical chemistry, Ljubljana, Slovenia

P-116

Population pharmacodynamic modelling and simulation as a method to characterize drug combination effects in a rat model of neuropathic pain

A. Folkesson¹; P.H. Honoré¹; O.J. Bjerrum¹; K. Kristensen²

¹University of Copenhagen, Pharmacology and Pharmacotherapy, Copenhagen, Denmark; ²AstraZeneca, Clinical Pharmacology, Lund, Sverige

P-117

Eudragit coated hydro-gel beads for delivery of bioactive agents to the duodenum

Per I.O. Wikström¹; Tobias Bramer¹; Lilyan Yachoh²

¹Recipharm AB, Pharmaci, Solna, Sweden; ²Uppsala University, Pharmacy, Uppsala, Sweden

P-118

Efficacy of PLGA particles as adjuvants in cancer vaccination: influence of particle size and CpG co-delivery

C Arandia; JM Irache; S Espuelas

University of Navarra, Pharmacy and Pharmaceutical Technology, Pamplona, Spain

P-119

Flow properties of ramipril granules: effect of granule size and lubricant type

Buket Aksu

Santa Farma Drug Company, Regulatory Affairs, Istanbul, Turkey

P-120

Predicting the effect of interleukin-6, an inflammatory cytokine, on time-dependent reduction of cyclosporine clearance: An application of the Simcyp Population-based Simulator to suppression of CYP450 by biologics

*Machavaram Krishna K¹; Almond Lisa M¹; Jamei Masoud²; Rostami-Hodjegan Amin³
¹Simcyp Limited, Sheffield, United Kingdom; ²Simcyp Limited, Sheffield, United Kingdom; ³Simcyp Limited and The University of Manchester, Sheffield / Manchester, United Kingdom*

P-121

prediction of drug interaction with investigational drugs

*Jung-woo Chae; Dong-hyun Kim; Jung-hwa An; Kwang-il Kwon
College of pharmacy, Chungnam National University, Daejeon, Republic of Korea*

P-122

Robustness evaluation in reversed phase liquid chromatography method for the quantitation of methotrexate using Youden's test

*E.S. Von Zuben; A.G. Oliveira; M. Chorilli; M.V. Scarpa
School of Pharmaceutical Sciences - UNESP, Drugs and Pharmaceuticals, Araraquara - SP, Brazil*

P-123

Stress degradation study on methotrexate in reversed-phase liquid chromatography method

*M. Chorilli; E. Von Zuben; A.G. Oliveira; M.V. Scarpa
School of Pharmaceutical Sciences - UNESP, Drugs and Pharmaceuticals, Araraquara - SP, Brazil*

P-124

Co-micronisation scale-up study of poorly water-soluble pharmaceutical API: from Precellys-24 to laboratory ball mill

*A Colin¹; J Hecq¹; L Camus¹; S Cuart²; M Galiay³; L Grislain³
¹Bertin Pharma, Formulation and process, Artigues-Près-Bordeaux, France; ²Bertin Pharma, Analytical, Artigues-Près-Bordeaux, France; ³Bertin Pharma, Artigues-Près-Bordeaux, France*

P-125

Sources of inter-individual variability in IVIVE of clearance. An investigation into the prediction of benzodiazepine clearance using a mechanistic population-based pharmacokinetic model

*H Cubitt¹; K Rowland-Yeo¹; E Howgate²; A Rostami-Hodjegan³; Z Barter⁴
¹Simcyp Ltd, Sheffield, United Kingdom; ²University of Manchester, Manchester, United Kingdom; ³Simcyp Ltd and University of Manchester, Sheffield, United Kingdom; ⁴Simcyp Ltd and University of Sheffield, Sheffield, United Kingdom*

P-126

The signaling pathways of nociceptin and nocistatin in the pregnant human and rat uterine contractility

*BH Deak¹; A Klukovits¹; E Ducza¹; Zs Kormanyos²; A Pal²; G Falkay¹; R Gaspar¹
¹University of Szeged, Faculty of Pharmacy, Department of Pharmacodynamics and Biopharmacy, Szeged, Hungary; ²University of Szeged, Faculty of General Medicine, Department of Obstetrics and Gynecology, Albert Szent-Györgyi Clinical Center, Szeged, Hungary*

P-127

New 3-hydroxy quinolinone derivatives with promising anticancer activity: the challenges of aqueous formulations

*M. di Cagno¹; J. Styskala²; J. Hlaváè²; M. Brandl¹; A. Bauer-Brandl¹; N. Skalko-Basnet³
¹University of Southern Denmark, IFK, Odense, Denmark; ²Palacky University, Organic Chemistry, Olomouc, Czech Republic; ³University of Tromsø, Pharmacy, Tromsø, Norway*

P-128

Water dispersible multilayer tablet for paediatric and adult administration

F. Elbaz¹; J Chan-Sew²; M-C Math²; L Boilait³

¹Sanofi-Aventis, Pharmaceutical Sciences, Montpellier, France; ²Sanofi-Aventis R&D, Pharmaceutical Sciences, Montpellier, France; ³Sanofi-Aventis R&D, Analytical Sciences, Montpellier, France

P-129

Application of chemoinformatics to assist drug discovery of butyrylcholinesterase inhibitors

A. Fallarero¹; G. Brunhofer¹; D. Karlsson¹; J. Isojärvi¹; J. Lehtonen²; T. Erker³; P. Vuorela¹

¹Åbo Akademi University, Pharmaceutical Sciences, Department of Biosciences, Turku, Finland; ²Åbo Akademi University, Biochemistry, Department of Biosciences, Turku, Finland; ³University of Vienna, Department of Medicinal Chemistry, Vienna, Austria

P-130

Structure-activity studies of some novel glutathione peroxidase mimics

J Paul Fawcett¹; Bettina Zadehvakili¹; Greg I Giles²

¹University of Otago, School of Pharmacy, Dunedin, New Zealand; ²University of Otago, Department of Pharmacology, Dunedin, New Zealand

P-131

Caco-2 cells cytotoxicity of nifuroxazide derivatives with potential activity against multiresistant *Staphylococcus aureus* (MRSA)

M. B. Fernandes¹; J. E. Gonçalves¹; A. A. Oliveira²; R. C. T. Garcia³; T. Marcourakis³; L. C. Tavares²; S. Storpirtis¹

¹University of São Paulo, Pharmacy Department, Sao Paulo, Brazil; ²University of São Paulo, Biochemical and Pharmaceutical Technology Department, Sao Paulo, Brazil; ³University of Sao Paulo, Clinical Analysis Department, Sao Paulo, Brazil

P-132

Stability and efficacy of *ex tempore* prepared 5% dapson gel formulations in community pharmacies

M. Gajdas; N. Zivanovic; N. Dragicevic-Curic
Apoteka "Beograd", Belgrade, Serbia

P-133

The effect of microemulsion formulations containing different surfactants on intestinal permeability of imatinib mesylate through Caco-2 cells

Evren Gundogdu¹; Yesim Karasulu¹; Cinel Koksul²; Ercument Karasulu²

¹Ege University Faculty of Pharmacy, Izmir, Turkey; ²Ege University Center For Drug Research and Development and Pharmacokinetic Application, Izmir, Turkey

P-134

Bioassay-guided isolation of anti-inflammatory, antinociceptive and wound healer glycosides form the flowers of *Verbascum mucronatum* Lam

C. Kahraman¹; Z.S. Akdemir¹; I.I. Tatli²; E. Kupeli Akkol³; I. Pesin Sutar³; H. Keles⁴

¹Hacettepe University, Faculty of Pharmacy, Department of Pharmacognosy, Ankara, Turkey; ²Hacettepe University, Faculty of Pharmacy, Department of Pharmaceutical Botany, Ankara, Turkey; ³Gazi University, Faculty of Pharmacy, Department of Pharmacognosy, Ankara, Turkey; ⁴Afyon Kocatepe University, Faculty of Veterinary Medicine, Department of Pathology, Afyon, Turkey

P-135

ECC-1 cell based bioassay as a sensitive and rapid screening method for compounds targeting estrogen receptors

*Y Konkol; J Seppänen ; R Kytömaa ; H Vuorikoski ; J Halleen
Pharmatest Services Ltd, Turku, Finland*

P-136

Tissue distribution of imipramine and its metabolites using MALDI-Imaging

Andrew McEwen¹; Daniel Scott¹; Jenny Avery¹; Karen Dummer¹; Malcolm Clench²

¹Quotient Bioresearch, Metabolism, Rushden, United Kingdom; ²Sheffield Hallam University, Biomedical Research Centre, Sheffield, United Kingdom

P-137

in vivo evaluation of mucoadhesive buccal tablets of piroxicam on human healthy volunteers

Ali Rýza Kepsutlu¹; Ayhan Savaser¹; Cetin Tas¹; Yalcin Ozkan¹; Tamer Baykara²

¹Gulhane Military Medical Academy, Pharmaceutical Technology, Ankara, Turkey; ²Faculty of Pharmacy, Ankara University, Pharmaceutical Technology, Ankara, Turkey

P-138

Solid dispersions of simvastatin in polyethyleneglycol and parafin

Ricardo G. Simões¹; João F. Pinto²; Manuel E. Minas da Piedade¹

¹Faculdade de Ciências, Universidade de Lisboa, Dept. Química e Bioquímica, Lisboa, Portugal; ²Med.UL - Faculdade de Farmácia, Universidade de Lisboa, Dept. Tecnologia Farmacêutica, Lisboa, Portugal

P-139

Development of a time-delayed release sleep tablet

AB Mullen¹; SJ Eccleston²; LA Hodges³; VE Ronaldson³; KA Sime³; D Pecek³; HNE Stevens¹

¹Drug Delivery International Ltd, Glasgow, United Kingdom; ²Strathclyde Institute of Pharmacy and Biomedical Science, Glasgow, United Kingdom; ³Bio-Images Research Ltd, Glasgow, United Kingdom

P-140

Uterus-relaxing effect of β_2 -agonists in combination with phosphodiesterase inhibitors: studies on pregnant rat in vivo and on human myometrium in vitro.

J Verli¹; A Klukovits¹; Zs Kormanyos²; J Hajagos-TÁ³th¹; E Ducza¹; G Falkay¹; A Pal³; R Gaspar¹

¹University of Szeged, Faculty of Pharmacy, Department of Pharmacodynamics and Biopharmacy, Szeged, Hungary; ²University of Szeged, Faculty of General Medicine, Department of Obstetrics and Gynecology, Albert Szent-Györgyi Clinical Center, Szeged, Hungary; ³University of Szeged, Faculty of General Medicine, Department of Obstetrics and Gynecology, Albert Szent-Györgyi Clinical Center, Szeged, Hungary

P-141

Study on interaction of oxytocin with divalent metal ions in aqueous buffered solution

Christina Avanti¹; Alexej Kedrov²; Wouter L.J. Hinrichs¹; Henderik W. Frijlink¹

¹University of Groningen, Department of Pharmaceutical Technology and Biopharmacy, Groningen, Netherlands; ²University of Groningen, Department of Molecular Microbiology, Groningen, Netherlands

P-142

Biosurfactant produced by the dematiaceous fungus, *Exophiala dermatitidis* SK80, exhibited anticancer activity against cancer cell lines

Paramaporn Chiewpattanakul¹; Sirinet Phonnok²; Alain Durand³; Emmanuelle Marie³; Benjamas Thanomsub Wongsatayanon²

¹Srinakharinwirot University, Stomatology, Bangkok, Thailand; ²Srinakharinwirot University, Microbiology, Bangkok, Thailand; ³Laboratoire de Chimie Physique Macromoléculaire CNRS-Nancy University, ENSIC, Nancy, France

P-143

Fibronectin fragments with increased surface stability for cell adhesion

L. McIntosh ; T Zhang ; C.F. van der Walle

University of Strathclyde, Strathclyde Institute of Pharmacy and Biomedical Sciences, Glasgow, United Kingdom

P-144

Anticancer property of monoolein isolated from yeast and its molecular target on apoptosis induction in human cancer cell lines

Sirinet Phonnok ; Wanlaya Uthaisang-Tanechpongamb ; Benjamas Thanomsub Wongsatayanon

Srinakharinwirot University, Bangkok, Thailand

P-145

Synthesis of pH-responsive microspheres by graft polymerization of gelatin

Ilaria Altimari ; U. Gianfranco Spizzirri ; Manuela Curcio ; Giuseppe Cirillo ; Ortensia Ilenia Parisi ;

Francesco Puoci ; Francesca Iemma ; Nevio Picci

University of Calabria, Pharmaceutical Science, Rende, Italy

P-146

Cyclodextrin-polymeric micelle nanocomplex for oncology therapy

Alexandra Gil Arranja ; Helena Cabral Marques ; Mafalda Videira

Faculty of Pharmacy Lisbon University, Pharmaceutical technology, Lisbon, Portugal

P-147

The potential switch from intravenous to oral docetaxel therapy using a trojan nanocapsule delivery system

S Attili-Qadri ; T Nassar ; S Benita

The Institute for Drug Research, The School of Pharmacy, Faculty of Medicine, The Hebrew University of Jerusalem, Jerusalem, Israel

P-148

Effect of charge carrier lipid on hair growth of liposomes containing finasteride

Rengarajan Baskaran ; Sang-Im Lee ; Santhosh-Kumar Nagayya-Sriraman ; Chul-Soon Yong ; Bong-Kyu Yoo

Yeungnam University, College of Pharmacy, Kyungsan, Republic of Korea

P-149

Measurement of theophylline ion pair interactions in solution state

F Benaouda ; B Forbes ; C P Page ; S A Jones

King's College London, Institute of Pharmaceutical Science, London, United Kingdom

P-150

Stealth pH-sensitive liposomes loading 99mtechnetium-HYNIC-β-Ala-Bombesin(7-14) for breast tumor identification

Andre Luiz Branco Barros¹ ; Luciene das Graças Mota¹ ; Carolina de Aguiar Ferreira¹ ; Marina Melo Antunes Coelho² ; Natássia Caroline Corrêa³ ; Geovanni Dantas Cassali³ ; Alfredo Miranda Góes³ ; Mônica Cristina Oliveira¹ ; Valbert N Cardoso¹

¹Faculdade de Farmacia-UFMG, Belo Horizonte, Brazil; ²Faculdade de Farmacia-UFMG, Analises Clinicas e Toxicológicas, Belo Horizonte, Brazil; ³ICB-UFMG, Belo Horizonte, Brazil

P-151

Characterization of mucoadhesive metronidazole tablets for potential buccal administration

J. Balcárková ; F. C. Carvalho ; P. C. Ferrari ; R. C. Evangelista ; M. P. D. Gremião ; A. D. Castro

Unesp, Drugs and Medicine, Araraquara, Brazil

P-152

Preparation and characterization of a solid dosage form from the solid dispersion of praziquantel with sodium starch glycolate

*S. M. Siqueira ; F. S. Campos ; A. L. R. Souza ; A. D. Castro ; M. P. D. Gremião
Unesp, Drugs and Medicines, Araraquara, Brazil*

P-153

Texture profile analysis of nanostructured systems for cutaneous administration of itraconazole

*G.M. Luz ; H.R. Silva ; M.H. Hirata ; M. Chorilli ; M.P.D. Gremião
School of Pharmaceutical Sciences - UNESP, Drugs and Pharmaceuticals, Araraquara - SP, Brazil*

P-154

Structural characterization of liquid-crystalline systems constituted by polyoxyethylene 20 cetyl ether and oleic acid

*M. Chorilli ; M.H. Oyafuso ; E.E. Funagoshi ; M.P.D. Gremião
School of Pharmaceutical Sciences - UNESP, Drugs and Pharmaceuticals, Araraquara - SP, Brazil*

P-155

Incorporation of organic cocoa in liquid-crystalline systems stabilized with polyoxyethylene 20 cetyl ether

*E.E. Funagoshi ; M. Chorilli
School of Pharmaceutical Sciences - UNESP, Drugs and Pharmaceuticals, Araraquara - SP, Brazil*

P-156

Effect of concentration of sodium starch glycolate on the dissolution profile of zidovudine-containing solid dispersions

*L.N. Pedreiro ; M. Chorilli ; M.P.D. Gremião
School of Pharmaceutical Sciences - UNESP, Drugs and Pharmaceuticals, Araraquara - SP, Brazil*

P-157

Liposomal dinitroanilines as antileishmanial agents

*ME Cruz¹ ; M Carvalho¹ ; R Lopes¹ ; C Eleuterio¹ ; G Santos-Gomes² ; E Scoulica³ ; A Esteves⁴
¹University of Lisbon, Faculty of Pharmacy, Lisbon, Portugal; ²Universidade Nova de Lisboa, Inst Higiene Med Tropical, Lisbon, Portugal; ³University of Crete, School of Medicine, Heraklion, Greece; ⁴LNEG, Unidade Pilhas Combustiveis, Lisbon, Portugal*

P-158

Lipid microspheres embedded inside a mucoadhesive buccal film to control the release of lidocaine

*C. Cavallari ; A. Fini ; I. Rodriguez ; F. Gregorini
University of Bologna, Bologna, Italy*

P-159

Controlled release behavior of nicotine loaded ion exchange resins for manufacturing chewing gums by direct compression technique

*Jayachandar Gajendran¹ ; Julian Schichtel¹ ; Johannes Kraemer² ; Peter Langguth³
¹Phast GmbH /Johannes Gutenberg University, Institute of Pharmacy and Biochemistry-Therapeutical Life Sciences, Homburg, Germany; ²Phast GmbH, Homburg, Germany; ³Johannes Gutenberg University, Institute of Pharmacy and Biochemistry-Therapeutical Life Sciences, Mainz, Germany*

P-160

Preparation and solid-state characterization of nanoporous saquinavir mesylate for aqueous solubility enhancement

*ML Branham ; T Moyo ; T Govender
University of KwaZulu-Natal, Durban, South Africa*

P-161

Comparative pharmacokinetic analysis of novel antimalarial artemisinin derivatives after oral administration using Pheroid technology

Anne F Grobler¹; J. Dewald Steyn¹; Lubbe Wiesner²; Richard Haynes³; Lizette Meeding¹; Liezl Gibhard¹; Awie Kotze¹

¹North-West University, Pharmaceuticals, Potchefstroom, South Africa; ²University of Cape Town, Clinical pharmacology, Cape Town, South Africa; ³The Hong Kong University of Science and Technology, Department of Chemistry, Kowloon, Hong Kong

P-162

The improvement of water-solubility and toxico-pharmacological properties of drugs by clathration with plant metabolites

M.V. Khvostov¹; G.A. Tolstikov²; T.G. Tolstikova¹

¹N.N. Vorozhtsov Novosibirsk Institute of Organic Chemistry the Siberian Branch of RAS, Laboratory of Pharmacological Research, Novosibirsk, Russian Federation; ²N.N. Vorozhtsov Novosibirsk Institute of Organic Chemistry the Siberian Branch of RAS, Novosibirsk, Russian Federation

P-163

Nanofibers as advanced drug carriers

A. Klabanova¹; M. Munzarova¹; M. Juklickova¹; J. Sirc²; R. Hobzova²; S. Kubinova³

¹ELMARCO Ltd., Liberec, Czech Republic; ²Academy of Sciences of the Czech Republic, Institute of Macromolecular Chemistry, Prague, Czech Republic; ³Academy of Sciences of the Czech Republic, Institute of Experimental Medicine, Prague, Czech Republic

P-164

Nanostructured porous silicon microparticles for improved Peptide YY delivery

Miia Kovalainen¹; Juha Mönkäre¹; Ermei Mäkilä²; Jarno Salonen²; Vesa-Pekka Lehto¹; Karl-Heinz Herzig³; Kristiina Järvinen¹

¹University of Eastern Finland, Kuopio, Finland; ²University of Turku, Turku, Finland; ³University of Oulu, Oulu, Finland

P-165

Structure–activity relationships of methylated N-aryl chitosan derivatives for enhancing paracellular permeability across Caco-2 cells

Jariya Kowapradit¹; Praneet Opanasopit¹; Tanasait Ngawhirunpat¹; Theerasak Rojanarata¹; Auayporn Apirukaramwong¹; Warayuth Sajomsang²

¹Silpakorn University, Faculty of Pharmacy, Nakorn Pathom, Thailand; ²National Nanotechnology Center, Thailand Science Park, Pathumthani, Thailand

P-166

Antipsychotic-loaded solid lipid nanoparticles (SLN) for oral delivery: modeling release profile

Ana Silva¹; Carla Martins Lopes²; Delfim Santos³; Eliana Souto²; Domingos Ferreira³

¹Faculty of Pharmacy, Porto University; Faculty of Health Sciences, Fernando Pessoa University, Laboratory of Pharmaceutical Technology, Porto, Portugal; ²Faculty of Health Sciences, Fernando Pessoa University, Porto, Portugal; ³Faculty of Pharmacy, Porto University, Laboratory of Pharmaceutical Technology, Porto, Portugal

P-167

Transdermal iontophoresis of ondansetron hydrochloride in vitro: Modulation of convective solvent flow and its effect on transport efficiency

Deniz Ozdin ; Sevgi Gungor
Istanbul University Faculty of Pharmacy, Department of Pharmaceutical Technology, Istanbul, Turkey

P-168

Streamlining innovative technologies through an open innovation model: effective nasal delivery of a powerful pain killer drug

Lorenzo Pradella
Zcube srl, General Management, Bresso (Milan), Italy

P-169

Nano-structured silicon particles as a solid dosage form for poorly soluble drugs

F Wang ; T Barnes ; C.A. Prestidge
University of South Australia, Ian Wark Research Institute, Mawson Lakes, Australia

P-170

Synthesis, characterization and *in vivo* delivery of siRNA-Squalene nanoparticles targeting RET/PTC1 fusion oncogene in papillary thyroid carcinoma

Mouna Raouane¹; Didier Desmaele²; Claire Gueutin²; Fatima Zouhri²; Ridha Ben Salah³; Marie Gilbert-Sirieix⁴; Liliane Massaad-Massade⁴; Patrick Couvreur²
¹Université Paris sud 11, Faculté de pharmacie, UMR /CNRS 8612, Ile-de-France, France; ²Université Paris sud11, Faculté de pharmacie, UMR CNRS 8612, Chatenay-Malabry, France; ³Faculté de Médecine Ibn El Jassar de Sousse, Université de Sousse, Unité de Recherche de Biophysique, 00/UR/08-02, Sousse, Tunisia; ⁴Institut Gustave Roussy, UMR CNRS 8203, Villejuif, France

P-171

A novel trojan nanoparticle drug-delivery system for enhancing intestinal transport of lopinavir without co-administration of ritonavir

Ayala Rohald ; Taher Nassar ; Simon Benita
The Institute for Drug Research of the School of Pharmacy, Faculty of Medicine, The Hebrew University of Jerusalem, Jerusalem, Israel

P-172

In vitro propranolol permeation and skin retention from transdermal film

Antonio Romano ; Cristina Padula ; Sara Nicoli ; Patrizia Santi
University of Parma, Pharmacy, Parma, Italy

P-173

Solid lipid microparticles for the buccal administration of melatonin

Angelica Marano ; Cristina Padula ; Sara Nicoli ; Patrizia Santi
University of Parma, Pharmacy, Parma, Italy

P-174

Development of polymeric nanocapsules of Poly (2-Ethylhexyl Acrylate) by in situ polymerization

P. L. Goto ; S. P. Carneiro ; S. McCloskey ; O. D. H. Santos
Universidade Federal de Ouro Preto, Departamento de Farmácia, Ouro Preto, Brazil

P-175

Optimization of Ibuprofen microemulsion and influence of formulation strategy on Ibuprofen permeation through rat skin

Behzad Sharif Makhmal Zadeh ; Shiva Torabi ; Armita Azar Panah
Ahvaz Jundishapur University of Medical Sciences, Pharmaceutics, Ahvaz, Islamic Republic of Iran

P-176

Effect of Kollidon® superdisintegrants on the release of mefenamic acid from microsp sponge tablets

Aysu Yurdasiper ; Ferhan Sevgi

Ege University, Faculty of Pharmacy, Pharmaceutical Technology, Izmir, Turkey

P-185

Evaluation of antioxidant activity of milk thistle extract complexed with hydroxypropyl- β -cyclodextrin

G Spada ; M Cossu ; G Rasso ; E Gavini ; P Giunchedi

University of Sassari, department of Drug Sciences, Sassari, Italy

P-177

Optimising the formulation of silica-lipid hybrid drug delivery systems

C Lim¹; K. Bremmell²; A Tan¹; C Prestidge¹

¹University of South Australia, Ian Wark Research Institute, Mawson Lakes, Australia; ²University of South Australia, Sansom Research Institute, Adelaide, Australia

P-178

Characterization of silver sulfadiazine-loaded solid lipid nanoparticles by thermal analysis

L Catenacci¹; M. Sorrenti¹; G. Bruni²; G. Sandri¹; C. Caramella¹; G.P. Bettinetti¹

¹University of Pavia, Department of drug sciences, Pavia, Italy; ²University of Pavia, Department of Chemistry, Pavia, Italy

P-179

Injectable hydrogels for localized release of proteins

Maria Jose Diz-Lojo ; Ana Rey-Rico ; Carmen Alvarez-Lorenzo ; Angel Concheiro

Universidad de Santiago de Compostela, Santiago de Compostela, Spain

P-180

Sponge-like dressings loaded with silver sulfadiazine: wound healing and antimicrobial properties

G. Sandri ; M.C. Bonferoni ; S. Rossi ; F. Ferrari ; F. D'Autilia ; E. Dellerà ; P. Grisoli ; C. Caramella

University of Pavia, Department of drug sciences, Pavia, Italy

P-181

Poliaggregates of amphotericin B: an in vitro toxicity study

MA Silva-Filho¹; SDVS Siqueira¹; PRT Medeiros²; IB Araujo¹; EST Egito¹; Nereide Magalhaes³

¹Federal University of Rio Grande do Norte, Department of Pharmacy, Natal, Brazil; ²Federal University of Rio Grande do Norte, Computer Science Engineering, Natal, Brazil; ³Federal University of Pernambuco, Recife, Pernambuco, Brazil

P-182

In vitro and in vivo evaluation of an injection-molded capsular device for oral pulsatile release

A Gazzaniga ; M Cerea ; A Cozzi ; MD Del Curto ; A Foppoli ; A Maroni

Università degli Studi di Milano, Dipartimento di Scienze Farmaceutiche "P. Pratesi", Milano, Italy

P-184

Silica-lipid hybrid materials enhance the oral absorption of poorly soluble drugs

A Tan¹; S Simovic¹; A Davey¹; B Boyd²; C.A. Prestidge¹

¹University of South Australia, Ian Wark Research Institute, Mawson Lakes, Australia; ²Monash University, MIPs, Melbourne, Australia

P-187

In vitro and in vivo antioxidant activities of the leaves of *Chrysophyllum albidum* G

A. H. Adebayo; A. O. Abolaji ; B. T. Olorunfemi

Covenant University, Biochemistry and Molecular Biology Unit, Department of Biological Sciences, PMB 1023, Canaanland, Ota, Nigeria

P-188

Evaluation of antioxidant and leishmanicidal activities from inflorescences of *Angeratum fastigiatum* (Asteraceae)

Nathalia Lucca Silva¹; Ivanildes Vasconcelos Rodrigues¹; Juliana Neves de Paula Souza¹; Levi Eduardo Soares Reis²; Samuel Leôncio Braga²; Alexandre Barbosa Reis²; Orlando David Henrique dos Santos²; Gustavo Henrique Bianco de Souza²

¹School of Pharmacy-UFOP, Ouro Preto, Brazil; ²School of Pharmacy-UFOP, Pharmaceutical Sciences, Ouro Preto-MG, Brazil

P-189

X-ray diffraction analyses of the natural isoquinoline alkaloids Berberine and Sanguinarine in complex with double helix DNA d(CGTCAG)

Marta Ferraroni ; Carla Bazzicalupi ; Anna Rita Bilia ; Paola Gratteri
University of Florence, Florence, Italy

P-190

Antihyperalgesic activity of verbascoside in two models of neuropathic pain

Benedetta Isacchi ; Romina Iacopi ; Maria Camilla Bergonzi ; Carla Ghelardini ; Nicoletta Galeotti ; Monica Norcini ; Elisa Vivoli ; Franco Francesco Vincieri ; Anna Rita Bilia
University of Florence, Florence, Italy

P-191

Anti-aging constituents of *Dimocarpus longan* Lour

Hsiu-Chen Chan¹; George Hsiao²; Ching-Kuo Lee³

¹Taipei Medical University, Graduate Institute of Pharmacognosy Sciences, Taipei City, Taiwan; ²Taipei Medical University, Graduate Institute of Medical Sciences, Taipei City, Taiwan; ³Taipei Medical University, School of Pharmacy, Taipei City, Taiwan

P-192

Chemical constituents and melanogenesis-inhibitory effects of *Ligusticum sinense*

Y.-T. Chu¹; C.-K. Lee²

¹Taipei Medical University, Graduate Institute of Pharmacognosy, Taipei City, Taiwan; ²Taipei Medical University, School of Pharmacy, Taipei City, Taiwan

P-193

Pharmacological properties of *Byrsonima intermedia* A. Juss (Malpighiaceae) in peptic ulcer

R de C dos Santos¹; M Sannomyia²; C M Rodrigues³; W Vilegas³; L R M da Rocha¹; C A Hiruma-Lima¹

¹Biosciences Institute of Botucatu, Physiology, Botucatu, Brazil; ²School of Arts, Sciences and Humanities, São Paulo, Brazil; ³Chemistry Institute, Organic Chemistry, Araraquara, Brazil

P-194

Comparative studies on *Plantago* species on the basis of antioxidant and cytotoxic activities

U. Pebnem Harput¹; Yasin Genç¹; Akito Nagatsu²; Ýclal Saraçođlu³

¹Hacettepe University, Faculty of Pharmacy, Department of Pharmacognosy, Ankara, Turkey; ²Kinjo Gakuin University, College of Pharmacy, Nagoya, Japan; ³Hacettepe University Faculty of Pharmacy, Department of Pharmacognosy, Ankar, Turkey

P-195

In vitro anticancer activity and structure-activity relationships of flavonoid glycosides

Yıldız Saraçoğlu ; U. Bebnem Harput

Hacettepe University, Faculty of Pharmacy, Department of Pharmacognosy, Ankara, Turkey

P-196

Investigation of flavonoid metabolites after ingestion of *Carpobrotus rossii* extract in the rat

Qi Ying Lean¹; Christian Narkowicz²; Dominic Geraghty³; Adam Pirie²; Glenn Jacobson²

¹University of Technology Mara, Faculty of Pharmacy, Pulau Pinang, Malaysia; ²University of Tasmania, School of Pharmacy, Hobart, Australia; ³University of Tasmania, School of Human Life Sciences, Launceston, Australia

P-197

Variations in Hyoscyamine and scopolamine production of black henbane (*Hyoscyamus niger*) plant parts with nitrogen application and water deficit stress

Farhad Mohabbati¹; Mansour Ghorbanpour²; Naser Majnoon Hossieni³; Shamsali Rezazadeh⁴; Mansour Omidi³; Kazem Khavazi⁵; Alireza Etminan⁶; Lia Shooshtari⁶

¹Karaj Branch, Islamic Azad University, Department of Agronomy, Karaj, Islamic Republic of Iran; ²Arak university, Faculty of Agriculture and Natural resources, Medicinal plants, Arak, Islamic Republic of Iran; ³Tehran University, Agronomy and Plant breeding, Karaj, Islamic Republic of Iran; ⁴Institute of Medicinal Plants (IMP), Pharmacognosy, Karaj, Islamic Republic of Iran; ⁵Soil and Water Institute, Microbiology, Karaj, Islamic Republic of Iran; ⁶Islamic Azad University, Kermanshah Branch, Plant Breeding, Kermanshah, Islamic Republic of Iran

P-198

The growth inhibitory effect of *Nigella sativa* essential oil, thymoquinone and thymohydroquinone in combination with selected antibiotics against *Staphylococcus aureus* in vitro

J Rondevaldova ; P Novy ; L Kokoska

Czech University of Life Sciences Prague, Institute of Tropics and Subtropics, Department of Crop Sciences and Agroforestry, Prague, Czech Republic

P-199

Chemical composition of the essential oil from *Microlícia graveolens* (Melastomaceae) and antimicrobial activity

A. B. Toudahl¹; A. K. Jäger¹; L. D. Morais²; G. H. B. Souza²; S. A. Vieira-Filho²; T. P. Figueiredo²; O. D. H. Santos²

¹University of Copenhagen, Department of Medicinal Chemistry, Copenhagen, Denmark; ²Universidade Federal de Ouro Preto, Departamento de Farmácia, Ouro Preto, Brazil

P-200

Sexual hormone-like effect of raw drone milk in female rats

Adrienn Seres ; Eszter Ducza ; Róbert Gáspár

University of Szeged, Department of Pharmacodynamics and Biopharmacy, Szeged, Hungary

P-201

Antioxidant property and determination of total phenolic compounds in collected species of Parque Estadual do Itacolomi, Ouro Preto-MG

Gustavo Souza¹; Juliana Souza¹; Ivanildes Rodrigues¹; Orlando Santos¹; Hildeberto Sousa²

¹School of Pharmacy - UFOP, Pharmaceutical Sciences, Ouro Preto-MG, Brazil; ²ICEB - UFOP, Department of Biodiversity, Evolution and Environment, Ouro Preto-MG, Brazil

P-202

The effects of *Feijoa sellowiana* Berg. fruits on the antioxidant defense system, lipid peroxidation and tissue morphology in rats

II Tatlı¹; I Kucukkurt²; S Ince³; H Keles⁴; E Kupeli Akkol⁵; C Kahraman⁶; HH Demirel⁴

¹Hacettepe University, Faculty of Pharmacy, Pharmaceutical Botany, Ankara, Turkey; ²Afyon Kocatepe University, Faculty of Veterinary Medicine, Biochemistry, Afyon, Turkey; ³Afyon Kocatepe University, Faculty of Veterinary Medicine, Pharmacology and Toxicology, Afyon, Turkey; ⁴Afyon Kocatepe University, Faculty of Veterinary Medicine, Pathology, Afyon, Turkey; ⁵Gazi University, Faculty of Pharmacy, Pharmacognosy, Ankara, Turkey; ⁶Hacettepe University, Faculty of Pharmacy, Pharmacognosy, Ankara, Turkey

P-203

Effects of different cytokinins on micropropagation of salvia officinalis

Karolina Wielgus¹; Aleksandra Luwanska¹; Daniel Lipinski²; Joanna Zeyland²; Marlena Szalata²; Ryszard Slomski²

¹Institute of Natural Fibres & Medicinal Plants, Department of Biotechnology, Poznan, Poland; ²Poznan University of Life Sciences, Department of Biochemistry and Biotechnology, Poznan, Poland

P-204

Development of colon-specific melatonin-sodium alginate gel formulations: I. In vitro evaluations

F. Esiringu¹; F. Acarturk²; F. Tugcu-Demiroz²

¹Pharmaceutical Research and Development Center Inc., Duzce, Turkey; ²Gazi University Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, Turkey

P-205

Development and release mechanism of diltiazem hydrochloride sustained release matrix tablet

Dheeraj Baviskar¹; Rajesh Sharma²; Dinesh Jain³

¹KVPS, Institute of Pharmaceutical Education, Pharmaceutics, Boradi, India; ²School of Pharmacy, D.A.V.V., Phashila Campus, Pharmaceutical Chemistry, Indore, India; ³College of Pharmacy, I.P.S. Academy, Pharmaceutics, Indore, India

P-206

Development and evaluation of orally disintegrating tablet formulation of rizatriptan benzoate

E Tuncay ; N.Celebi

Gazi University Faculty of Pharmacy, Pharmaceutical Technology, Ankara, Turkey

P-207

Predictive models for anti-retroviral drug maximum recommended therapeutic dose (MRTD)

M Branham ; T.Govender

University of KwaZulu-Natal, Durban, South Africa

P-208

sNLC – a new treatment strategy against AD

Cornelia Keck ; Rainer Müller

Freie Universität Berlin, Berlin, Germany

P-209

The effect of formulation variables on the release patterns and structural characteristics of desonide topical emulsions

J.Marto¹; C Salgado¹; E Oliveira²; H Ribeiro¹

¹Faculty of Pharmacy, University of Lisbon, Research Institute for Medicines and Pharmaceutical Sciences (iMed.UL), Lisbon, Portugal; ²AtralCipan Group, Lisbon, Portugal

P-210

Semisolid emulsion systems: Rheological and thermal characterization

S.Raposo¹; A Salgado¹; G Eccleston²; M Urbano³; H Ribeiro¹

¹Faculty of Pharmacy, University of Lisbon, Research Institute for Medicines and Pharmaceutical Sciences (iMed.UL), Lisbon, Portugal; ²University of Strathclyde, Pharmaceutical Sciences, Glasgow, United Kingdom; ³Laboratório Edol, Lisbon, Portugal

P-211

Semisolid Emulsion systems: Prediction of physical stability

S Raposo¹; A Salgado¹; G Eccleston²; M Urbano³; H Ribeiro¹

¹Faculty of Pharmacy, University of Lisbon, Research Institute for Medicines and Pharmaceutical Sciences (iMed.UL), Lisbon, Portugal; ²University of Strathclyde, Pharmaceutical Sciences, Glasgow, United Kingdom; ³Laboratório Edol, Lisbon, Portugal

P-212

Formulation of w/o/w multiple emulsions containing niacinamide: an effect of the components on the characteristics

Figen Tirnaksiz¹; Yeliz Fidan²

¹Gazi University, Faculty of Pharmacy, Pharmaceutical Technology, Ankara, Turkey; ²Gazi University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, Turkey

P-213

Preparation and evaluation of propranolol HCL microcapsules containing Eudragit polymers using emulsion solvent evaporation method

Hadi Afrasiabi Garekani¹; Meisam Rakhshan²; Fatemeh Sadeghi²

¹Pharmaceutical research center and School of Pharmacy, Pharmaceutics, Mashhad, Islamic Republic of Iran; ²School of Pharmacy, Pharmaceutics, Mashhad, Islamic Republic of Iran

P-214

The influence of incorporated drug on moving front position within swollen xanthan studied by magnetic resonance imaging

Saša Baumgartner¹; Urška Mikac²; Ana Sepe²; Julijana Kristl³

¹University of Ljubljana, Faculty of Pharmacy, Ljubljana, Slovenia; ²Jožef Stefan Institute, Ljubljana, Slovenia; ³University of Ljubljana, Ljubljana, Slovenia

P-215

Characterization of gentamicin-bentonite complex

A Bellini; D Malferrari; V Iannuccelli; G Coppi

University of Modena and Reggio Emilia, Modena, Italy

P-216

Rheological, mechanical and bioadhesive characterization of carboxypolymethylene hydrogel for topical application

G.M.F. Calixto; F.C. Carvalho; I. Katakeyama; G.M. Luz; M.P.D. Gremião; M. Chorilli

School of Pharmaceutical Sciences - UNESP, Drugs and Pharmaceuticals, Araraquara - SP, Brazil

P-217

Preparation of blends of dextran of different molecular weights

F.S. Campos; L.Z. Ferrari; M. Chorilli; M.P.D. Gremião

School of Pharmaceutical Sciences - UNESP, Drugs and Pharmaceuticals, Araraquara - SP, Brazil

P-218

The Influence of Hydrophilic Pore Formers on Metoprolol Succinate Release from Mini-tabs Coated with Aqueous Ethylcellulose Dispersion

Kevin Hughes¹; Vuong Hue²; Levina Marina²; Farrell Thomas³; Rajabi-Siahboomi Ali³

¹Colorcon Ltd, Formulation Technologies, Dartford, United Kingdom; ²Colorcon Ltd, Product Development, Dartford, United Kingdom; ³Colorcon Inc, Product Development, Harleysville, United States

P-219

Polymer delivery of Hydroxycamptothecin against C6 glioma

Songqing Liu; Jing Hu ; Huafei Tang

Southwest Hospital, Third Military Medical University, Department of Pharmacy, Chongqing, China

P-220

Influence of hydrophilic surfactants on the properties of multiple W/O/W emulsions containing betamethasone

I. Ozcan; T. Senyigit ; E. Korkmaz ; M. Ozyazici ; O. Ozer

Ege University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Izmir, Turkey

P-221

Hemostatic tablets to control bleeding in post-extractive alveolar wounds

*Antonella Nappi*¹; *Francesca Ungaro*¹; *Fabiana Quaglia*¹; *Gianrico Spagnuolo*²; *Gaetano Marenzi*²; *Gilberto Sammartino*²; *Agnese Miro*¹

¹University of Napoli Federico II, Dept. of Pharmaceutical and Toxicological Chemistry, Napoli, Italy;

²University of Napoli Federico II, Dept of Odontostomatological and Maxillofacial Sciences, Napoli, Italy

P-222

Production of coextrudates based on hydroxypropylmethylcellulose

*Andreia Raimundo*¹; *Martin Wahl*²; *João Pinto*¹

¹iMed.UL - Faculdade de Farmácia, Universidade de Lisboa, Tecnologia Farmacêutica, Lisboa, Portugal;

²Eberhard Karls Universitaet Tuebingen, Pharmazeutisches Institut, Tuebingen, Germany

P-223

A new assembled delivery system for helicobacter pylori therapy

*C Conti*¹; *A Rossi*¹; *P Barata*²; *S Delfim*³; *P Colombo*¹

¹University of Parma, Department of Pharmacy, Parma, Italy; ²University of Fernando Pessoa, Faculty of Health Sciences, Porto, Portugal; ³University of Porto, Faculty of Pharmacy, Porto, Portugal

P-224

The effect of HPMC type and concentration on the physicomechanical and release properties of ibuprofen and Eudragit RS pellets prepared by extrusion-spheronization

Fatemeh Sadeghi; *Mohammad Amirpour Rayeni*; *Hadi Afrasiabi Garekani*

School of Pharmacy, Pharmaceutics, Mashhad, Islamic Republic of Iran

P-225

Gemcitabine-loaded PEGylated unilamellar liposomes in the treatment of papillary thyroid carcinomas

*M Vono*¹; *D Cosco*¹; *C Celia*¹; *D Paolino*²; *M Celano*¹; *D Russo*¹; *M Fresta*¹

¹University "Magna Graecia", Department of Pharmacobiological Sciences, Catanzaro, Italy; ²University "Magna Graecia", Department of Experimental and Clinical Medicine, Catanzaro, Italy

P-226

Liposomal multidrug carriers encapsulating gemcitabine and tamoxifen for the treatment of breast cancer

*D Cosco*¹; *C Federico*¹; *F Casale*¹; *D Paolino*²; *M Fresta*¹

¹University "Magna Graecia", Department of Pharmacobiological Sciences, Catanzaro, Italy; ²University "Magna Graecia", Department of Experimental and Clinical Medicine, Catanzaro, Italy

P-227

Linoleic acid-loaded ethosomes® and transfersomes® as topical drug carriers for hyperpigmentation disorders treatment

*E Trapasso*¹; *F Cilurzo*¹; *D Cosco*²; *P Gallelli*²; *C Celia*²; *D Paolino*¹

¹University "Magna Graecia", Department of Experimental and Clinical Medicine, Catanzaro, Italy;

²University "Magna Graecia", Department of Pharmacobiological Sciences, Catanzaro, Italy

P-228

Topical treatment of squamous cell carcinoma by using paclitaxel-loaded ethosomes®

*F Cilurzo*¹; *E Trapasso*¹; *D Cosco*²; *C Celia*²; *D Paolino*¹; *M Fresta*²

¹University "Magna Graecia", Department of Experimental and Clinical Medicine, Catanzaro, Italy;

²University "Magna Graecia", Department of Pharmacobiological Sciences, Catanzaro, Italy

P-229

Physico-chemical characterization and cytotoxicity assays for poloxamer-based tramadol formulations

*ACM dos Santos*¹; *PS Melo*²; *F Yokaichiya*³; *EC de Lima*¹; *DR de Araujo*¹

¹Universidade Federal do ABC, Centro de Ciências Naturais e Humanas, Santo André-SP, Brazil;

²Faculdades Integradas Metropolitanas de Campinas, Campinas-SP, Brazil; ³Laboratório Nacional de Luz Sincrotron, Campinas-SP, Brazil

P-230

Influence of terpenes on membrane fluidity in empty and temoporfin-loaded invasomes

*N. Dražicevic-Curic*¹; *D. Pecarski*²; *K Milosevic-Kostadinovic*³; *M. Friedrich*⁴; *W. Plass*⁴; *V. Albrecht*⁵; *A. Fahr*⁶

¹Apoteka "Beograd", Belgrade, Serbia; ²Mella Cosmetics d.o.o., Belgrade, Serbia; ³Apoteka Medicor, Kotor, Montenegro; ⁴Department of Inorganic and Analytical Chemistry, Friedrich Schiller University Jena, Jena, Germany; ⁵Biolitec AG, Jena, Germany; ⁶Department of Pharmaceutical Technology, Friedrich Schiller University Jena, Jena, Germany

P-231

Liposomes modified loading 99mtechnetium-DTPA to identify inflammatory focus in an experimental model in rats

Luciene das Graças Mota ; *Simone Odilia A Fernandes* ; *André Luis Branco Barros* ; *Talita Guieiro R Rocha* ; *Shirleide Santos Nunes* ; *Mônica Cristina Oliveira* ; *Valbert N Cardoso*
Faculdade de Farmácia, Belo Horizonte, Brazil

P-232

Improved antimycobacterial effect of paromomycin through association to liposomes

M.M. Gaspar ; *J. Pereira* ; *A. Constantino* ; *C.V. Eleutério* ; *M.E.M. Cruz*

Faculty of Pharmacy University of Lisbon, Farmácia Galénia e Tecnologia Farmacêutica, Lisbon, Portugal

P-233

Oryzalin liposomes for Leishmania treatment

R Lopes ; *M Carvalho* ; *C Eleutério* ; *M.L. Corvo* ; *A.J. Almeida* ; *M.E.M. Cruz*

Faculty of Pharmacy, University of Lisbon, Research Institute for Medicines and Pharmaceutical Sciences (iMed.UL), Lisbon, Portugal

P-234

9-cis-Retinoic Acid-loaded PEG-coated PLGA-nanoparticles: characterization and *in vitro* evaluation of pharmacological activity

*R Molinaro*¹; *D Cosco*¹; *E Gentile*¹; *D Scalise*¹; *D Paolino*²; *M Fresta*¹

¹University "Magna Graecia", Department of Pharmacobiological Sciences, Catanzaro, Italy; ²University "Magna Graecia", Department of Experimental and Clinical Medicine, Catanzaro, Italy

P-235

Development of squalane and retinoic acid nanoemulsion for topical application using phase inversion

H. Mezdari ; S. A. Vieira-Filho ; O. D. H. Santos

Universidade Federal de Ouro Preto, Departamento de Farmácia, Ouro Preto, Brazil

P-236

Targeted delivery of methotrexate to tumor cells using biotin functionalized methotrexate-human serum albumin conjugated nanoparticles

Azade Taheri¹; Rassoul Dinarvand¹; Fatemeh Atyabi¹; Farank Salman Nouri¹; Atefe Taheri²; Pooria Mansoori³

¹Faculty of Pharmacy, Tehran University of Medical Sciences, Department of Pharmaceutics, Tehran, Islamic Republic of Iran; ²Faculty of Dentistry, Tehran University of Medical Sciences, Department of Pathology, Tehran, Islamic Republic of Iran; ³Faculty of Medicine, Jondishapour University of Medical Sciences, Department of Radiology, Ahwaz, Islamic Republic of Iran

P-237

Preparation and characterization of trastuzumab - polyethylene glycol decorated carbon nanotubes for targeted delivery of chemotherapeutic agents

AM Tamaddon ; FS Farvadi ; SS Abolmaali

Shiraz University of Medical Sciences, Pharmaceutics, Shiraz, Islamic Republic of Iran

P-238

Lipid nanoparticles as drug delivery systems

C Vitorino¹; J J Sousa¹; A A C C Pais²; A J Almeida³

¹University of Coimbra, Faculty of Pharmacy, Coimbra, Portugal; ²University of Coimbra, Chemistry Department, Coimbra, Portugal; ³University of Lisbon, Faculty of Pharmacy, Lisbon, Portugal

P-239

Formulation and evaluation of different nanoparticulate polyelectrolyte complexes

Peqi Ahlin Grabnar ; Julijana Kristl

University of Ljubljana, Faculty of Pharmacy, Ljubljana, Slovenia

P-240

Nanoparticulate system of chitosan-sodium deoxycholate as gene delivery

A Cadete¹; L Figueiredo¹; CCR Calado²; AJ Almeida¹; LMD Gonçalves¹

¹FFUL, iMed, Lisboa, Portugal; ²Universidade Católica Portuguesa, Faculdade de Engenharia, Rio de Mouro, Portugal

P-241

Nanoparticles against Alzheimer's disease: PEG-PACA nanoparticles are able to link the AB-peptide and influences its aggregation kinetic

D. Brambilla¹; R. Verpillot¹; M. Taverna¹; B. Le Droumaguet¹; J. Nicolas¹; J. Kona²; L. De Kimpe³; M. Canovi⁴; M. Gobbi⁴; V. Nicolas⁵; M. Salmona⁴; W. Schepe³; I. Tvaroška²; P. Couvreur¹; K. Andrieux¹

¹University Paris Sud 11, Chatenay-Malabry, France; ²Slovak Academy of Sciences, Bratislava, Slovakia; ³Academic Medical Center, Amsterdam, Netherlands; ⁴Istituto di Ricerche Farmacologiche "Mario Negri", Milan, Italy; ⁵University Paris Sud 11, 92296 Chatenay-Malabry, France

P-242

Effects of polymeric nanocarrier structures on internalization in cell monolayer and excised skin

A. Badihi ; N. Debotton ; S. Benita

The Institute for Drug Research of the School of Pharmacy, Faculty of Medicine, The Hebrew University of Jerusalem, Jerusalem, Israel

P-243

Cytotoxicity evaluation of Locust Bean Gum new derivatives and their application in drug delivery

L. Braz¹; A Grenha²; D Ferreira³; AM Rosa da Costa¹; B Sarmento³

¹University of Algarve, CIQA – Centre for Research in Chemistry of Algarve, Faro, Portugal; ²University of Algarve, CBME - Centre for Molecular and Structural Biomedicine, Faro, Portugal; ³University of Porto, Department of Pharmaceutical Technology, Faculty of Pharmacy, Porto, Portugal

P-244

Biodegradable radiotherapeutic microspheres of polyester/Holmium-166 for liver cancer therapy

Mariangela Burgos M. de Azevedo¹; Nanci Nascimento²; Geovanna Pires²; Jaime R. Souza²

¹IPEN Instituto de Pesquisas Energéticas e Nucleares, Biotechnology Center, São Paulo, Brazil; ²Instituto de Pesquisas Energéticas e Nucleares -IPEN, Biotechnology Center, Brazil

P-245

Sponge-like medications containing chitosan ascorbate nanoparticles for vaginal application

Puccio Antonella ; Rossi Silvia ; Ferrari Franca ; Bonferoni Maria Cristina ; Sandri Giuseppina ; Grisoli Pietro ; Dacarro Cesare ; Caramella Carla

University of Paiva, Department of Drug Sciences, Pavia, Italy

P-246

Nanoparticle microarrays for the detection of cellular uptake and distribution in retinal pigment epithelial cells

Marco G. Casteleijn; Arto Urtti

University of Helsinki, Center for Drug Research, Helsinki, Finland

P-247

Development of nanoparticles ionically crosslinked chitosan/tripolyphosphate for nasal administration of protein: particle size and zeta potential

C.P. Kill ; M. Chorilli; M.P.D. Gremião

School of Pharmaceutical Sciences - UNESP, Drugs and Pharmaceuticals, Araraquara - SP, Brazil

P-248

Modified pullulan-based nanoparticles for protein delivery

Marita Dionísio¹; Ana M. Rosa da Costa²; Sandra S. Soares²; Ana Grenha²

¹Faculty of Sciences and Technology - University of Algarve, Institute for Biotechnology and Bioengineering/Centre for Molecular and Structural Biomedicine, Faro, Portugal; ²Faculty of Sciences and Technology - University of Algarve, Faro, Portugal

P-249

Resveratrol loaded solid lipid nanoparticles for dermal application: Protection against reactive oxygen species

E.H. Gokce¹; E. Korkmaz¹; G. Sandri²; M.C. Bonferoni²; O. Ozer¹

¹Ege University, Faculty of Pharmacy, Department of Pharmaceutical Technology, İzmir, Turkey;

²University of Pavia, School of Pharmacy, Department of Pharmaceutical Chemistry, Pavia, Italy

P-250

Preparation and evaluation of nanoparticles loaded with clozapine for controlled release

Jahnvi Gopisetti; Avula Prameela Rani

Acharya Nagarjuna University, Pharmaceutics, Vijayawada, India

P-251

The application of genipin as cross-linker of chitosan/carrageenan nanoparticles

C Teixeira¹; AM Rosa da Costa²; A Grenha¹

¹University of Algarve, CBME - Centre for Molecular and Structural Biomedicine/IBB - Institute for Biotechnology and Bioengineering, Faro, Portugal; ²University of Algarve, CIQA - Centre for Research in Chemistry of Algarve, Faro, Portugal

P-252

Dry powder DNA nanoparticles prepared by an aerosol flow reactor method

M Hanzlikova¹; J Raula²; E Kauppinen²; A Urtti³; M Yliperttula¹

¹University of Helsinki, Division of Biopharmaceutics and Pharmacokinetics, Faculty of Pharmacy, Helsinki, Finland; ²Aalto University, School of Science, NanoMaterials Group, Department of Applied Physics, Espoo, Finland; ³University of Helsinki, Centre for Drug Research, Helsinki, Finland

P-254

Development of polyhydroxy surfactant based lipid nanoparticles

A Kovacevic¹; S Savic¹; G Vuleta¹; R.H. Müller²; C.M. Keck²

¹Faculty of Pharmacy, University of Belgrade, Department of Pharmaceutical Technology and Cosmetology, Belgrade, Serbia; ²Freie Universität Berlin, Department of Pharmaceutics, Biopharmaceutics and NutriCosmetics, Berlin, Germany

P-255

Fluorescent probe, designed for particular nanocarriers, provides superior intracellular visualization

J Kristl; K Teskaè Plajntek; S Pajk; B Govedarica; S Peèar; S Srèè

Faculty of Pharmacy; University of Ljubljana, Ljubljana, Slovenia

P-256

PEGylated poly(alkyl cyanoacrylate) nanoparticles functionalized by click chemistry for applications in Alzheimer's disease

D Brambilla¹; C Zona²; B Le Droumaquet¹; J Nicolas¹; F Nicotra³; M Canovi⁴; M Gobbi⁴; K Andrieux¹; P Couvreur¹

¹Université Paris Sud XI, UMR CNRS 8612, Chatenay Malabry, France; ²University of Milano-Bicocca, Department of Biotechnology and Bioscience, Milano, Italy; ³University of Milano-Bicocca, UMR CNRS 8612, Milano, Italy; ⁴Istituto di Ricerche Farmacologiche "Mario Negri", Department of Biochemistry and Molecular Pharmacology, Milano, Italy

P-257

Nanoassemblies of nucleoside analogues coupled to terpenoids: Structural analysis

Elise Lepeltier; Claudie Bourgaux; Joachim Caron; Eric Sliwinski; Didier Desmaèle; Patrick Couvreur
University of Paris Sud, UMR CNRS 8612, Châtenay Malabry, France

P-258

Biodistribution study of rifampin bound to surfactant-coated polymeric nanoparticles

Olga Maksimenko¹; Andrey Bud'ko¹; Lyudmila Vanchugova¹; Elena Shipulo¹; Jörg Kreuter²; Svetlana Gelperina¹

¹Nanosystem Ltd., R&D, Moscow, Russian Federation; ²Goethe University, Institute of Pharmaceutical Technology, Frankfurt-am-Main, Germany

P-259

Formulation and Stability Studies on NSAIDs-containing SLN

G Mancini¹; LMD Gonçalves¹; R Lopes¹; A Bica²; HM Ribeiro¹; AJ Almeida¹

¹Faculty of Pharmacy, University of Lisbon, Research Institute for Medicines and Pharmaceutical Sciences (iMed.UL), Lisbon, Portugal; ²Laboratório de Estudos Farmacêuticos, Lisbon, Portugal

P-260

Preparation, characterization and stability of Glycyrrhetic acid smartCrystal®

M Mishra¹; R Shegokar¹; RH Müller¹; S Gohla²

¹Freie Universität Berlin, Institute of Pharmacy, Dept. of Pharmaceutics, Biopharmaceutics & NutriCosmetics, Berlin, Germany; ²Research & Development of the La Prairie Group - Juvena, Volketswil, Switzerland

P-261

Iron oxide PLGA nanoparticles as magnetic responsive drug delivery systems

I Peça; A Roque; A Bicho; M Cardoso

Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Chemistry Department, Caparica, Portugal

P-262

Magnetoliposomes: preparation and characterization

S. Petralito¹; R. Spera¹; G. D'Inzeo²; M. Liberti²; F. Apollonio²

¹Sapienza University of Rome, Department of Chemistry and Technology of Drug, Rome, Italy; ²Sapienza University of Rome, Department of Information Engineering, Electronics and Telecommunications, Rome, Italy

P-263

Development and characterization of thiomers-protamine nanoparticles for scale-up experiments

C. Petschacher¹; J. Barthelmes²; A. Bernkop-Schnürch²; J. Wagner³; A. Zimmer¹

¹Karl-Franzens-University Graz, Institute of Pharmaceutical Sciences/Department of Pharmaceutical Technology, Graz, Austria; ²Leopold-Franzens-University Innsbruck, Institute of Pharmacy/Department of Pharmaceutical Technology, Innsbruck, Austria; ³University of Technology Graz, Institute for Electron Microscopy, Graz, Austria

P-264

Sustained delivery nanoassemblies for combined photodynamic and conventional therapy of cancer

C Conte¹; F Ungaro¹; G Maglio²; R Palumbo²; M.T. Sciortino³; A Mazzaglia⁴; F Quaglia¹

¹University of Napoli Federico II, Dept. of Pharmaceutical and Toxicological Chemistry, Napoli, Italy; ²University of Napoli Federico II, Dept. of Chemistry "Paolo Corradini", Napoli, Italy; ³University of Messina, Dept. of Life Sciences, Messina, Italy; ⁴National Research Council of Italy (CNR), Institute of Nanostructured Materials, Messina, Italy

P-265

Characterization of cross-linked chitosan/carrageenan nanoparticles

S. Rodrigues; S. S. Soares; A. Grenha

FCT, UAIG, IBB/CBME, LA, Faro, Portugal

P-266

Encapsulation of quercetin and resveratrol in liposomes: A fractional factorial design study

P.G. Cadena¹; M.A. Pereira¹; R.B.S. Cordeiro¹; I.M.F. Cavalcanti¹; B. Barros Neto²; M.C.B. Pimentel¹; J.L. Lima Filho¹; V.L. Silva³; N.S. Santos-Magalhães¹

¹Federal University of Pernambuco, Laboratório de Imunopatologia Keizo Asami, Recife, Brazil; ²Federal University of Pernambuco, Departamento de Química Fundamental, Recife, Brazil; ³Federal University of Pernambuco, Laboratório de Engenharia da Qualidade e Ambiental, Recife, Brazil

P-267

Niosomal Paclitaxel: Development, characterization and in vivo comparison with marketed formulation

Zerrin Sezgin Bayindir¹; Arzu Onay Besikci²; Nilufer Yuksel¹

¹Ankara University School of Pharmacy, Pharmaceutical Technology, Ankara, Turkey; ²Ankara University School of Pharmacy, Pharmacology, Ankara, Turkey

P-268

Itraconazole-loaded Nanostructured Lipid Carriers (NLC) for pulmonary application in falcons

*Jana Pardeike*¹; *Sabrina Weber*¹; *Hans Peter Zarfl*²; *Andreas Zimmer*¹

¹University of Graz, Pharmaceutical Technology, Graz, Austria; ²Private Veterinary Sugery, Wolfsberg, Austria

P-269

Mucoadhesive hydrogels for the buccal release of chlorhexidine

*A. Fini*¹; *V. Bergamante*¹; *G.C. Ceschel*²

¹University of Bologna, Bologna, Italy; ²Monterese, Bollate (Mi), Italy

P-270

Mucoadhesive films containing chitosan-coated polycaprolactone nanoparticles: a new strategy for buccal delivery of curcumin

*Letícia Mazzarino*¹; *Sonia Ortega Murillo*¹; *Elenara Lemos-Senna*²; *Redouane Borsali*¹

¹Université Joseph Fourier, Centre de Recherches sur les Macromolécules Végétales, Grenoble, France;

²Universidade Federal de Santa Catarina, Departamento de Ciências Farmacêuticas, Florianópolis, Brazil

P-271

Prediction and optimization of ranitidine release from HPMC matrices by Factorial Design

*Ivo Múrias*¹; *Carla M. Lopes*²; *Delfim Santos*³; *Francisco Veiga*¹; *Rita Oliveira*⁴; *Ruggero Bettini*⁵; *Stuart A. Jones*⁶; *Pedro Barata*⁴

¹Faculty of Pharmacy, Coimbra University, Center for Pharmaceutical Studies, Laboratory of Pharmaceutical Technology, Coimbra, Portugal; ²Faculty of Health Sciences, Fernando Pessoa University and CGB-UTAD/IBB, Porto, Portugal; ³Faculty of Pharmacy, Porto University, Laboratory of Pharmaceutical Technology, Porto, Portugal; ⁴Faculty of Health Sciences, Fernando Pessoa University, Porto, Portugal; ⁵University of Parma, Department of Pharmacy, Parma, Italy; ⁶King's College London, Pharmaceutical Science Division, London, United Kingdom

P-272

Preparation and characterization of self emulsifying drug delivery system for hydrophobic compound

*Kumar Ashok*¹; *P S Gide*²; *A G Agrawal*¹

¹Cachet Pharmaceuticals Pvt. Ltd., Alkem group, INDIA, Formulation Research and Development, Bhiwadi, Near New Delhi, India; ²MET's Institute of Pharmacy, Bhujbal Knowledge City, Adgaon, Nashik - 422 003, India., Principal, Nashik, India

P-273

Comparison of in vitro/in vivo methods for skin penetration/permeation assessment: A diclofenac-diethylamine case study

*I Jaksic*¹; *M Lukic*¹; *B Markovic*²; *B Calija*¹; *J Milic*¹; *S Savic*¹

¹Faculty of Pharmacy, Department of Pharmaceutical Technology and Cosmetology, Belgrade, Serbia;

²Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Belgrade, Serbia

P-274

Dissolution experiments at varying pH in presence of lipid layer to mimic absorption

*Karl Box*¹; *Steve Evans*²; *John Comer*¹; *Sam Judge*¹

¹Sirius Analytical Instruments Limited, R&D, Forest Row, United Kingdom; ²Sirius Analytical Instruments Limited, Sales, Forest Row, United Kingdom

P-275

Use of gastrointestinal simulation technology in predicting ciprofloxacin/antacids interaction

A Stoikovic ; J Parojcic ; S Grbic ; Z Djuric

Faculty of Pharmacy, Department of Pharmaceutical Technology and Cosmetology, Belgrade, Serbia

P-276

Assessment whether ABC transporters are involved in the transport of the oxime HI-6 across the blood-brain barrier

Marloes Joosen¹; Freek Schrande²; Dimitri Grossouw²; Irene Nooijen²; Maria Vlaming²; Herman van Helden¹; Heleen Wortelboer²

¹TNO, Rijswijk, Netherlands; ²TNO, Zeist, Netherlands

P-277

Assessment of species differences in the inhibition of the human and murine ABC transporters MDR1 (ABCB1) and Mdr1a (Abcb1a) by registered drugs in vitro

Maria Vlaming ; Harm Jansen ; Freek Schrande ; Irene Nooijen ; Heleen Wortelboer

TNO, Zeist, Netherlands

P-278

Bioequivalence evaluation of single doses metronidazole formulations: a randomized, open-label, two-period crossover study in healthy adult Brazilian volunteers

Marina Silva ; Simone Schramm ; Eunice Kano ; Eunice Koono ; Valentina Porta ; Cristina Serra

FCF USP, Sao Paulo, Brazil

P-279

Poloxamer in situ forming hydrogel as delivery system for the local anesthetic ropivacaine

ACS Akkari ; DL Silva ; EC de Lima ; DR de Araujo

Universidade Federal do ABC, Centro de Ciências Naturais e Humanas, Santo André-SP, Brazil

P-280

Cocrystals screening using rational solution based methods for nitrofurantoin

Amjad Alhalaweh¹; Scott Childs²; Sumod Geroge¹; Syed Rizvi³; Sitaram Velaga¹

¹Health Science, Lulea, Sweden; ²Renovo Research, Atlanta, Sweden; ³Renovo Research, Atlanta, United States

P-282

Grafting of Quercetin on PMMA: new material for pharmaceutical applications

OI Parisi ; M Curcio ; G Cirillo ; I Altimari ; UG Spizzirri ; F Puoci ; F Iemma ; N Picci

University of Calabria, Pharmaceutical Sciences, Arcavacata di Rende, Italy

P-283

Selection of cryoprotectant by freeze-thaw test for cationic solid lipid nanoparticles

S. Doktorovova¹; A. M. Silva²; C. M. Lopes³; P. Martins-Lopes¹; E. B. Souto³

¹Institute of Biotechnology and Bioengineering, Centre of Genomics and Biotechnology, University of Trás-os-Montes and Alto Douro, Vila Real, Portugal; ²Centre for the Research & Technology of Agro-Environmental and Biological Sciences, University of Trás-os-Montes and Alto Douro, Vila Real, Portugal; ³Faculty of Health Sciences, Fernando Pessoa University and IBB/CGB-UTAD, Porto/Vila Real, Portugal

P-284

Application of zeta potential and particle size measurements to predict quality and stability of drug carrier systems

J Dredán¹; N Niczinger¹; R Zelkó²; J Balogh²; I Klebovich¹; I Antal¹

¹Semmelweis University, Department of Pharmaceutics, Budapest, Hungary; ²Semmelweis University, University Pharmacy Department of Pharmacy Administration, Budapest, Hungary

P-285

Formulation and in vivo study of novel diazabicyclic opioid agonists

Paolo Fadda¹; Manca Ilaria²; Casu Gianluca³; Reali Roberta²; Pani Luca³; Lazzari Paolo⁴

¹Consorzio Elpro and Neuroscienze PharmaNess S.c.a r.l., POLARIS, Pula (CA), Italy; ²Neuroscienze PharmaNess S.c.a r.l., POLARIS, Pula (CA), Italy; ³CNR-IFT Istituto Farmacologia Traslazionale, POLARIS, Pula (CA), Italy; ⁴Neuroscienze PharmaNess S.c.a r.l., POLARIS, Pula (CA), Italy, and Dipartimento di Scienze del Farmaco, Università di Sassari, Sassari, Italy

P-286

Effect of microwaves on a nimesulide/BCD solid dispersion

C. Cavallari ; A. Fini

University of Bologna, Bologna, Italy

P-287

Suitability of a newly developed air fluidization coater for the coating of tablets containing moisture-sensitive drugs

C. Cahyadi ; L. W. Chan ; P. W. S. Heng

National University of Singapore, Department of Pharmacy, Singapore, Singapore

P-288

The preparation of amorphous solid dispersions of meloxicam: Polymer selection and investigation of KinetiSol® dispersing process parameters

Justin R. Hughey¹; Justin M. Keen¹; Chris Brough²; Sophie Saeger³; James W. McGinity¹

¹The University of Texas at Austin, Department of Pharmaceutics, Austin, TX, United States; ²DisperSol Technologies, LLC, Austin, TX, United States; ³Free University of Berlin, Berlin, Germany

P-289

Spray-coating of fine pharmaceutical particles with Aquacoat in a 5-g batch scale using a novel miniature fluidized-bed process

H Ichikawa¹; M Kadota¹; T Ueno²; N Asai²; Y Osako²; S Teratani³; Y Fukumori³

¹Kobe Gakuin University, Faculty of Pharmaceutical Sciences, Kobe, Japan; ²Fuji Paudal, Osaka, Japan; ³Kobe Gakuin University, Faculty of Pharmaceutical Sciences, Kobe, Japan

P-290

Controlling biofilm formation with percentage brancher unit in branched polymers

Gracie L Kerr ; Dimitrious A Lamprou ; Paul A Hoskisson ; Andrew J Urquhart

University of Strathclyde, Strathclyde Institute of Pharmacy and Biomedical Sciences, Glasgow, United Kingdom

P-291

Dissolution enhancement of poorly water soluble drugs by co-precipitation in the presence of additives and stabilizers

M Khanfar ; M Sheikh Salem

Jordan University of Science and Technology, Pharmaceutical Science, Irbid, Jordan

P-292

Determination of Magnesium Stearate from intact tablets using Raman spectroscopy

Satu Lakio¹; Henri Salokangas²; Balázs Vajna³; István Farkas³; György Marosi³; Jouko Yliruusi¹

¹University of Helsinki, Division of Pharmaceutical Technology, Helsinki, Finland; ²Orion Pharma, Espoo, Finland; ³Budapest University of Technology and Economics, Department of Organic Chemistry and Technology, Budapest, Hungary

P-293

Process understanding of drying applied to wet granulation in single-pot equipment

*G. Mondelli*¹; *G. Bertuzzi*¹; *C. Funaro*¹; *F. Cembali*¹; *B. Albertini*²; *N. Passerini*²

¹IMA S.p.A., Active Division, Ozzano dell'Emilia, Bologna, Italy; ²Università di Bologna, Dip. Scienze Farmaceutiche, Bologna, Italy

P-294

A comparative study looking at differing forms of Hyperspectral imaging for polymer identification and isolation

*Joseph Muench*¹; *Steven Wren*²; *Steven Marshall*³; *Clive Wilson*¹; *Andrew Urquhart*¹

¹University of Strathclyde, Strathclyde Institute of Pharmacy and Biomedical Sciences, Glasgow, United Kingdom; ²AstraZeneca, Macclesfield, United Kingdom; ³University of Strathclyde, Department of Electronic and Electrical Engineering, Glasgow, United Kingdom

P-295

Application of experimental design for desloratadine syrup development

*J. Pesic*¹; *I. Homsek*¹; *S. Ibric*²

¹Galenika ad, R&D Institute, Belgrade, Serbia; ²Faculty of Pharmacy, Department of Pharmaceutical Technology, Belgrade, Serbia

P-296

A physiologically-based pharmacokinetic (PBPK) brain model and its application in simulating drug disposition in brain

*Lu Gaohua*¹; *Sibylle Neuhoff*¹; *Masoud Jamei*¹; *Amin Rostami Hodjegan*²

¹Simcyp Limited, Sheffield, United Kingdom; ²University of Manchester, Manchester, United Kingdom

P-297

Interplay of transport and metabolism in the gut: Predictions of drug-drug interactions using physiologically-based pharmacokinetic modelling

*S Neuhoff*¹; *K Rowland Yeo*¹; *M Jamei*¹; *A Rostami Hodjegan*²

¹Simcyp Limited, Sheffield, United Kingdom; ²University of Manchester, Manchester, United Kingdom

P-298

Preparation & characterization of Liquid crystalline structures of naproxen for transdermal delivery

*Nefise Ozlen Sahin*¹; *Altan Yuksel*¹; *Tadeusz Librowski*²

¹Mersin University, Faculty of Pharmacy, Department of Biopharmaceutics, Mersin, Turkey; ²Jagellonian University, Faculty of Pharmacy, Department of Pharmacodynamics, Krakow, Poland

P-299

Hydroxiapatite compacts porous based in percolation theory loading with a model drug

BM Montóia; *M Ramos*; *H Cabral-Marques*; *P Salústio*

Faculdade de Farmácia da Universidade de Lisboa, Departamento de Tecnologia Farmacêutica, Lisboa, Portugal

P-300

The estimation of osmolarity of parenteral solutions using true powder density of the solute

Z. Sklupalova

Charles University in Prague, Pharmaceutical Technology, Hradec Kralove, Czech Republic

P-301

Optimization of FlexStream™— a novel fluid bed processor for granulation

P.M. Wong ; P.W.S. Heng

National Univeristy of Singapore, Department of Pharmacy, Singapore, Singapore

P-302

The impact of the type and percentage of emollients, as well as the production procedure on the chemical properties of the W/O emulsions created with the natural emulsifier

Bojana Vucelic¹; Marija Bajcic¹; Natasa Zivanovic²

¹Pharmacy Belgrade, Laboratory Lipov lad, Belgrade, Serbia; ²Pharmacy Belgrade, Belgrade, Serbia

P-303

Continuous flow crystallization of active pharmaceutical ingredients

R Eder¹; J Grill¹; K Schmitt¹; S Schrank²; E Roblegg²; M Besenhard³; S Radl³; H Gruber-Woelfler¹; J Khinast¹

¹Graz University of Technology, Institute for Process and Particle Engineering, Graz, Austria; ²University of Graz, Department of Pharmaceutical Technology, Graz, Austria; ³Research Center Pharmaceutical Engineering, Graz, Austria

P-304

Formulation engineering of nanosuspensions for intravenous administration

Cecile Allais ; Stephanie Greco ; Guillaume Louit ; Mostafa Nakach

sanofi aventis, Pharmaceutical Sciences, Vitry-sur-Seine, France

P-305

The influence of chitosan-oligosaccharide as crosslinking agent on pH-sensitive drug release from Ca-alginate microparticles

B Calija¹; N Cekic²; S Savic¹; I Masic¹; J Milic¹

¹Faculty of Pharmacy, Depratment of Pharmaceutical Technology and Cosmetology, Belgrade, Serbia;

²DCP Hemigal, Leskovac, Serbia

P-306

Biopharmaceutical characterization of mesalazine-loaded chitosan microparticles

D Cosco¹; M Vono¹; P Gallelli¹; R Molinaro¹; D Paolino²; M Fresta¹

¹University "Magna Graecia", Department of Pharmacobiological Sciences, Catanzaro, Italy; ²University "Magna Graecia", Department of Experimental and Clinical Medicine, Catanzaro, Italy

P-307

A tandem technique based on prilling and microwave treatments for the production of NSAIDs controlled release dosage forms

G Auriemma ; M Ventura ; G Gaudiello ; R.P. Aquino ; P Del Gaudio

University of Salerno, Pharmaceutical and Biomediacal Sciences, Fisciano (SA), Italy

P-308

Preparation and properties of inhalable dry powder formulation containing mannitol as excipient for rhIL-2-loaded PLGA microparticles

Burcu Devrim ; Asuman Bozkir ; Kandemir Canefe

Ankara University Faculty of Pharmacy, Pharmaceutical Technology, Ankara, Turkey

P-309

Preparation and in-Vitro evaluation of Terbinafine-HCl loaded ethosomes for transungual delivery

S Tuncay¹; I Vejnovic²; G Betz²; O Ozer¹

¹Ege University Faculty of Pharmacy, Pharmaceutical Technology, Izmir, Turkey; ²University of Basel Industrial Pharmacy Research Group, Pharmaceutical Sciences, Basel, Switzerland

P-310

Release behavior of sodium diclofenac from cross-linked high amylose/pectin matrices

G. A. Soares ; A. D. Castro ; B. S. F. Cury ; R. C. Evangelista
Unesp, Drugs and Medicine, Araraquara, Brazil

P-311

Investigating the processing properties of instant release film-coating polymers in aqueous solutions by means of extensional rheology

T. Agnese ¹; T. Cech ¹; W. Dejan ²; N. W. Rottmann ³; F. Soergel ⁴

¹BASF SE, European Pharma Application Lab, Ludwigshafen, Germany; ²Glatt AG, Application Lab, Pratteln, Switzerland; ³BASF SE, Pharma Ingredients & Services Europe, Lampertheim, Germany; ⁴Thermo Fisher Scientific, Material Characterization, Karlsruhe, Germany

P-312

Investigating the influence of colouring agents on the rheological characteristics of a film-coating dispersion

T. Agnese ¹; T. Cech ¹; N. W. Rottmann ²; F. Soergel ³

¹BASF SE, European Pharma Application Lab, Ludwigshafen, Germany; ²BASF SE, Pharma Ingredients & Services Europe, Lampertheim, Germany; ³Thermo Fisher Scientific, Material Characterization, Karlsruhe, Germany

P-313

Investigating mixtures of poloxamer 188 and 407 regarding their gel point and rheological characteristics of the gel by means of oscillatory measurement

T. Agnese ¹; T. Cech ¹; M. G. Herting ²; F. Soergel ³

¹BASF SE, European Pharma Application Lab, Ludwigshafen, Germany; ²BASF SE, Pharma Ingredients & Services Europe, Lampertheim, Germany; ³Thermo Fisher Scientific, Material Characterization, Karlsruhe, Germany

P-314

Investigating the influence of sodium chloride on the gel point of poloxamer formulations by means of oscillatory testing

T. Agnese ¹; T. Cech ¹; M. G. Herting ²; F. Soergel ³

¹BASF SE, European Pharma Application Lab, Ludwigshafen, Germany; ²BASF SE, Pharma Ingredients & Services Europe, Lampertheim, Germany; ³Thermo Fisher Scientific, Material Characterization, Karlsruhe, Germany

P-315

investigating the advantages of external lubrication on the tableting process of orally dispersible tablets

T. Agnese ¹; T. Cech ¹; M. Mistry ²; D. Peters ³; C. Poepperl ⁴

¹BASF SE, European Pharma Application Lab, Ludwigshafen, Germany; ²BASF A/S, Pharma Ingredients & Services Europe, Copenhagen, Denmark; ³Fette GmbH, Schwarzenbek, Germany; ⁴T.G. Ritter Spezialmaschinen GmbH, Netphen, Germany

P-316

Developing a photometric method to determine the amount of film-coating material applied onto individual tablet cores

T. Agnese ¹; T. Cech ¹; F. Guth ²

¹BASF SE, European Pharma Application Lab, Ludwigshafen, Germany; ²BASF SE, R&D Project Management Excipients, Ludwigshafen, Germany

P-317

Evaluating different methods to determine the amount of applied coating material onto a tablet

T. Agnese ¹; T. Cech ¹; F. Cembali ²; C. Funaro ²; V. Geiselhart ³; G. Mondelli ⁴

¹BASF SE, European Pharma Application Lab, Ludwigshafen, Germany; ²IMA S.p.A., Process Development and R&D Laboratory, Bologna, Italy; ³BASF SE, Pharma Ingredients & Services Europe, Lampertheim, Germany; ⁴IMA S.p.A, Process Development and R&D Laboratory, Bologna, Italy

P-318

Determining the minimum amount of functional coat to be applied to gain taste masking functionality and investigating whether tablet shape or scale is influencing the result

T. Agnese ¹; T. Cech ¹; F. Cembali ²; C. Funaro ²; M. Mistry ³; G. Mondelli ²

¹BASF SE, European Pharma Application Lab, Ludwigshafen, Germany; ²IMA S.p.A, Process Development and R&D Laboratory, Bologna, Italy; ³BASF A/S, Pharma Ingredients & Services Europe, Copenhagen, Denmark

P-319

Investigating the differences of poorly and hardly soluble actives in a matrix formulation based on polyvinyl acetate by means of tablet characteristics and dissolution properties

T. Agnese ¹; T. Cech ¹; F. Wildschek ²

¹BASF SE, European Pharma Application Lab, Ludwigshafen, Germany; ²BASF SE, Pharma Ingredients & Services Europe, Ludwigshafen, Germany

P-320

investigating the influence of various manufacturing technologies on the characteristics and dissolution properties of a matrix tablet based on polyvinyl acetate

T. Agnese ¹; T. Cech ¹; V. Dombos ²; F. Wildschek ³; A. Ruetzler ²

¹BASF SE, European Pharma Application Lab, Ludwigshafen, Germany; ²INNOJET Herbert Hüttlin, Application Lab, Steinen, Germany; ³BASF SE, Pharma Ingredients & Services Europe, Ludwigshafen, Germany

P-321

Measuring drug supersaturation in the presence of additives and simulated GI fluids

Karl Box ¹; John Comer ¹; Steve Evans ²; Sam Judge ³

¹Sirius Analytical Instruments Limited, R&D, Forest Row, United Kingdom; ²Sirius Analytical Instruments Limited, Sales, Forest Row, United Kingdom; ³Sirius Analytical Instruments Limited, Chemistry, Forest Row, United Kingdom

P-322

Influence of the extrusion temperature on the physical properties of solid dispersions based on a new graft copolymer

A Foppoli ; G Loreti ; P Tosoncin ; E Macchi ; M Cerea ; A Gazzaniga

Università degli Studi di Milano, Dipartimento di Scienze Farmaceutiche "P.Pratesi", Milano, Italy

P-323

Spray dried nanofibrillated cellulose microparticles as tablet excipient

R. Kolakovic ¹; L. Peltonen ¹; T. Laaksonen ¹; K. Putkisto ²; A. Laukkanen ³; J. Hirvonen ¹

¹University of Helsinki, Faculty of Pharmacy, Division of Pharmaceutical Technology, Helsinki, Finland;

²VTT Technical Research Centre of Finland, Espoo, Finland; ³UPM Nanocenter, Espoo, Finland

P-324

Investigation of tapioca starch as a polymer in controlling sustained release of diclofenac sodium from matrix tablets

Doungkamol Leao Kittikul

Faculty of Pharmaceutical Sciences, Khon Kaen University, Department of Pharmaceutical Technology, Muang Khon Kaen, Thailand

P-325

Characteristics evaluation of special low-viscosity hydroxypropyl cellulose as a novel binder for drug-layering onto fine particles by spouted-bed spraying process

Shinichiro Tsue

Nippon Soda Co., Ltd, Joetsu-shi, Niigata-ken, Japan

P-326

Advantage to properties and release profile of tablet prepared with a new globular special fine powder of Hydroxypropyl Cellulose by direct compression method

Shinichiro Tsue

Nippon Soda Co., Ltd, Pharma-Chemicals Division, Niigata-ken, Japan

P-327

Purity of peg 400 affects api and gelatin capsule stability

Questions - contact George Rizzo at George.Rizzo@croda.com

Abel Pereira

Croda International, , United States

P-328

Development of a dissolution method for Ibuprofen chewels™ using a rapid HPLC method

Ad Bernaerts; *Bas Heijblom*; *Jean-Paul Boon*

Banner Pharmacaps Europe, Analytical Development R&D, Tilburg, Netherlands

P-329

Spectroscopic NMR studies on the ozonide/hydroperoxide transformation in ozonated oils of pharmaceutical interest

*L. Chiasserini*¹; *A Sega*¹; *I Zanardi*¹; *V Bocci*²; Valter Travagli¹

¹*Università degli Studi di Siena, Dipartimento Farmaco Chimico Tecnologico, Siena, Italy*; ²*Università degli Studi di Siena, Dipartimento di Fisiologia, Siena, Italy*

P-330

Validation of titrimetric measurement of pKa, logP and solubility using sub-mg quantities of sample

*Karl Box*¹; *John Comer*¹; Steve Evans²; *Sam Judge*³

¹*Sirius Analytical Instruments Limited, R&D, Forest Row, United Kingdom*; ²*Sirius Analytical Instruments Limited, Sales, Forest Row, United Kingdom*; ³*Sirius Analytical Instruments Limited, Chemistry, Forest Row, United Kingdom*

P-331

Continuous Annular Electro-Chromatography - a preparative multi-dimensional separation system for APIs

*H. Gruber-Woelfler*¹; *M.-G. Braunbruck*¹; *P. W. Feenstra*¹; *R. Laskowski*²; *H.-J. Bart*²; *J.-G. Khinast*¹; Simone Schrank¹

¹*Graz University of Technology, Institute for Process and Particle Engineering, Graz, Austria*; ²*Technische Universität Kaiserslautern, Lehrstuhl für Thermische Verfahrenstechnik, Kaiserslautern, Germany*

P-332

Contact angle determination: effect of sample preparation

*S. Acar Kuebart*¹; C. M. Keck²

¹*Freie Universitaet Berlin, Department of Pharmaceutics, Biopharmaceutics and NutriCosmetics, Berlin, Germany*; ²*University Putra Malaysia, Laboratory of Molecular Biomedicine, Institute of Bioscience, Kuala Lumpur-Serdang, Malaysia*

P-333

The quantitative analysis for crystal forms in drug product by raman spectroscopy

*Takashi Yoshioka*¹; *Akio Ozawa*¹; *Miyuki Hohokabe*²; *Yukihiro Nomura*²; *Chiaki Shiraishi*¹
¹Takeda Pharmaceutical Company Limited, Analytical Development Laboratories, CMC Center, Osaka, Japan; ²Takeda Pharmaceutical Company Limited, Pharmaceutical Technology R&D Laboratories, CMC Center, Osaka, Japan

P-334

Characterization of tamarind seed polysaccharides alone and in association with hyaluronic acid

*I Zanardi*¹; *V Guastella*¹; *S Petralito*²; *E Paccagnini*³; *M Cecchi*¹; *V Travagli*¹
¹Università degli Studi di Siena, Dipartimento Farmaco Chimico Tecnologico, Siena, Italy; ²La Sapienza - Università di Roma, Dipartimento di Chimica e Tecnologie del Farmaco, Roma, Italy; ³Università degli Studi di Siena, Dipartimento di Biologia Evolutiva, Siena, Italy

P-335

Hyaluronic Acid of different source and molecular weight: steady-state viscometric evaluations

*I Zanardi*¹; *V Rossi*¹; *V Millucci*²; *M Cecchi*³; *V Travagli*¹
¹Università degli Studi di Siena, Dipartimento Farmaco Chimico Tecnologico, Siena, Italy; ²Università degli Studi di Siena, Dipartimento di Fisica, Siena, Italy; ³Farmigea SpA, Pisa, Italy

P-336

Profiling the spectral characteristics of the gums using hyperspectral imaging

*VE Ronaldson*¹; *S Karthick*²; *N Cairns*³; *LA Hodges*⁴; *KA Sime*⁴; *CG Wilson*⁴
¹Bio-Images Research Ltd, Glasgow, United Kingdom; ²Gilden Photonics, Glasgow, United Kingdom; ³Gilden Photonics, Glasgow, United Kingdom; ⁴Bio-Images Research Ltd, Glasgow, United Kingdom

P-338

Development and validation of a stability-indicating liquid chromatography method for the determination of tigecycline in pharmaceutical product

HRN Salgado; *LM Silva*
UNESP, Drugs and Medicines, Araraquara, Brazil

P-339

Analysis of illegal erectile dysfunction drugs in eastern Thailand

Sarunyaporn Kitchaiya; *Jariya Akkarawarathorn*; *Salakchit Chutipongvivate*
Regional Medical Sciences Center 3, Medical Science, Chonburi, Thailand

P-340

Development and validation of an uv-spectrophotometric method for determination of chlorhexidine digluconate in liquid soap

FAM Fiorentino; *JPP Ocanha*; *MA Correa*; *HRN Salgado*
UNESP, Drugs and Medicines, Araraquara, Brazil

P-341

Real-time push-broom chemical imaging: a case study of accelerated data processing using GPU

*C. Finta*¹; *M. Juuti*¹; *P. Teppola*¹; *J. Paaso*²; *P. Toivanen*³
¹VTT Technical Research Centre of Finland, Photonic Devices and Measurement Solutions, Kuopio, Finland; ²VTT Technical Research Centre of Finland, Photonic Devices and Measurement Solutions, Oulu, Finland; ³University of Eastern Finland, School of Computing, Kuopio, Finland

P-364

FBRM as a PAT tool for in-line monitoring of kinetics particle growth in wet granulation processes

Firas Alshihabi

University of Basel, Pharmaceutical Technology, Basel, Switzerland

P-342

Metabolic transformations observed during *in vitro* dermal penetration studies

Andrew McEwen; Gill Ford; Karen Dummer; Daniel Scott

Quotient Bioresearch, Metabolism, Rushden, United Kingdom

P-343

Role of haptoglobin and its polymorphism in bronchial asthma

M. Cortez e Castro¹; J. Ferreira²; M. Pereira-Barbosa¹; M. Bicho²; C. Marinho²

¹CHLN-HSM, ImmunoAllergy, Lisbon, Portugal; ²Lisbon Medical School, Genetic department, Lisbon, Portugal

P-344

Assessment of genetic diversity in *Hyoscyamus* sp. using AFLP markers

Alireza Etminan¹; Mansour Omid²; Eslam Majidi³; Mohammadreza Naghavi²; Shamsali Rezazadeh⁴; Lia Shooshtari⁵; Mansour Ghorbanpour⁶; Ardeshtir Ghaderi⁷; Rahim Taghizadfarid⁴

¹Islamic Azad University, Kermanshah branch, Plant breeding, Kermanshah, Islamic Republic of Iran;

²Tehran University, plant breeding, Karaj, Islamic Republic of Iran; ³Islamic Azad University, plant

breeding, Tehran, Islamic Republic of Iran; ⁴Institute of Medicinal Plant(IMP), Pharmacognosy, Karaj,

Islamic Republic of Iran; ⁵Islamic Azad University, Kermanshah, plant breeding, Kermanshah, Islamic

Republic of Iran; ⁶Arak University, Medicinal Plants, Arak, Islamic Republic of Iran; ⁷Institute of Medicinal

Plant(IMP), Biotechnology, Karaj, Islamic Republic of Iran

P-345

Study of somaclonal variation in *Ducrosia anethifolia* as an endangered medicinal plant using AFLP

Lia Shooshtari¹; Mansour Omid²; Eslam Majidi³; Mohammadreza Naghavi²; Shamsali Rezazadeh⁴; Alireza Etminan⁵; Atena Oladzad⁶; Mansour Ghorbanpour⁷; Ardeshtir Ghaderi⁶

¹Islamic Azad University, Kermanshah branch, plant breeding, Kermanshah, Islamic Republic of Iran;

²Tehran University, plant breeding, Karaj, Islamic Republic of Iran; ³Islamic Azad University, plant

breeding, Tehran, Islamic Republic of Iran; ⁴Institute of Medicinal Plant(IMP), Pharmacognosy, Karaj,

Islamic Republic of Iran; ⁵Islamic Azad University, Kermanshah, plant breeding, Kermanshah, Islamic

Republic of Iran; ⁶Institute of Medicinal Plant(IMP), Biotechnology, Karaj, Islamic Republic of Iran; ⁷Arak

University, Medicinal Plants, Arak, Islamic Republic of Iran

P-346

Effect of Single Nucleotide Polymorphisms of ABCB1 gene on the Single-Dose Absorption Pharmacokinetic of Oxcarbazepine Tablets in Healthy Adult Iranian volunteers

ss abolmaali; M bagheri; AM tamaddon; sm samani

Shiraz university of medical sciences, pharmaceuticals, Shiraz, Islamic Republic of Iran

P-348

Buccal investigations of immediate release micro-pellets based on ludiflash®

Eva Roblegg¹; Simone Schrank¹; Lisa Lesky¹; Eleonore Fröhlich²

¹Karl Franzens University, Graz, Austria, Institute of Pharmaceutical Sciences, Department

Pharmaceutical Technology, Graz, Austria; ²Medical University of Graz, Austria, Center for Medical

Research, Graz, Austria

P-349

Finite element model of topical brimonidine distribution in the rabbit eye

J Mains¹; C Wilson¹; A Urquhart¹; V Damian-Iordache²

¹University of Strathclyde, Strathclyde Institute of Pharmacy and Biomedical Sciences, Glasgow, United Kingdom; ²Glaxosmithkline, King of Prussia, United States

P-350

Prediction of diclofenac pharmacokinetics using early drug discovery *in vitro* data in a mechanistic dog physiologically-based pharmacokinetic model - "Simcyp Dog".

*M Harwood*¹; *D Turner*¹; *M Jamei*¹; *A Rostami-Hodjegan*²

¹Simcyp Ltd, Sheffield, United Kingdom; ²Simcyp Ltd, Sheffield, UK & University of Manchester, Department of Pharmacy, Manchester, United Kingdom

P-351

Protection against doxorubicin induced cardiotoxicity: An experimental study in rats

*N Hadi*¹; *B Mohammad*²

¹Kufa Faculty of Medicine, Najaf, Iraq; ²Alqadisiyah college of Medicine, Diwaniya, Iraq

P-352

Blocking leukotrienes pathway ameliorates renal ischemia/ reperfusion injury in a mouse model

Najah Hadi ; *Fadhil Alamran*

Medical College Kufa University, Surgical, Najaf, Iraq

P-354

Therapeutic Drug Monitoring (TDM) of antideementia drugs

*Ralf Koeber*¹; *Hans-Hermann Klauenemann*²; *Reinhold Waimer*³; *Anton Koestlbacher*⁴; *Doris Melchner*¹; *Anett Doerfelt*¹; *Ekkehard Haen*¹

¹Clinical Pharmacology/Psychopharmacology, Department of Psychiatry and Psychotherapy, University of Regensburg, Regensburg, Germany; ²Clinical Neuropsychiatric Genetics, Department of Psychiatry and Psychotherapy, University of Regensburg, Regensburg, Germany; ³Gerontopsychiatry, Department of Psychiatry and Psychotherapy, Klinikum Nuremberg Nord, Nuremberg, Germany; ⁴Department of Information Science, University of Regensburg, Regensburg, Germany

P-355

Covariate based dose estimation equations of pediatric drug using population analysis

BY Lee; *IH Baek* ; *KI Kwon*

College of Pharmacy, Chungnam National University, Daejeon, Republic of Korea

P-356

Evaluation of community pharmacy based diabetes education program in Turkey

Eren yavuz Özbek ; *Imren Uca* ; *Nefise Ozlen Sahin* ; *Altan Yuksel*

Mersin University, Faculty of Pharmacy, Biopharmaceutics, Mersin, Turkey

P-357

Detection of drug interactions in hypertensive patients at primary care

*N Castilla*¹; *B Calvo*²

¹Basque Health Department, Comarca Araba, Vitoria, Spain; ²University of the Basque Country- Faculty of Pharmacy, Pharmacy and Pharmaceutical Technology, Vitoria, Spain

P-358

Drug related problems in polymedicated hypertensive patients

*B Calvo*¹; *S Torrent*²

¹University of the Basque Country- Faculty of Pharmacy, Pharmacy and Pharmaceutical Technology, Vitoria, Spain; ²Basque Health Department, Comarca Araba, Vitoria, Spain

P-359

Pharmaceutical care in diabetes type 2

*A. Mourao ; A. Grabe-Guimaraes ; L. Ev
Federal University of Ouro Preto, Ouro Preto, Brazil*

P-360

The role of clinical pharmacist in pharmaceutical care of patients with rheumatoid arthritis

*Oksana Yu. Hrem ; Oksana Ya. Kachmar ; Lyubov Ye. Zaruma
Danylo Halytsky Lviv National Medical University, Clinical Pharmacy, Pharmacotherapy and Medical
Standardization, Lviv, Ukraine*

P-361

Antimicrobial preservation of oral liquid formulations for children

*R. Embrechts ; Albertina Ariën
Janssen Pharmaceutical Companies, Pharmaceutical Development & Manufacturing Sciences, Beerse,
Belgium*

P-362

Attempt to health risk assessment of pharmaceuticals in drinking water

*Tetsuji Nishimura¹; Reiji Kubota¹; Maiko Tahara¹; Kumiko Shimizu¹; Norihiro Kobayashi¹; Tomoko
Obama¹; Naoki Sugimoto¹; Toshinari Suzuki²
¹National Institute of Health Sciences, Division of Environmental Chemistry, Tokyo, Japan; ²Tokyo
Metropolitan Institute of Public Health, Division of Water Quality, Tokyo, Japan*

P-363

Aspects of pediatrics pharmacotherapy in Bosnia and Herzegovina and adverse drug events

*Adnan Bajraktarevic¹; Semira Penava¹; Kaljic Amra Junuzovic¹; Ismet Suljevic²; Begler Begovic³;
Amina Selimovic⁴; Irma Dovadzija⁵; Teodora Frankic⁵; Dragana Boldic⁵; Lutvo Sporisevic⁶; Aida
Djulepa Djurdjevic⁷
¹Public Health Institution of Canton Sarajevo Pediatrics Department, Sarajevo, Bosnia and Herzegovina;
²Clinical Medical Center Sarajevo- Department for Biochemistry and Immunology, Sarajevo, Bosnia and
Herzegovina; ³Clinical Medical Center Sarajevo- Department for Clinical Pharmacology, Sarajevo, Bosnia
and Herzegovina; ⁴Pediatrics Clinic Sarajevo, Sarajevo, Bosnia and Herzegovina; ⁵Pharmaceuticals
offices of Canton, Sarajevo, Bosnia and Herzegovina; ⁶First Medical Aid Sarajevo-Pediatrics department,
Sarajevo, Bosnia and Herzegovina; ⁷General Hospital, Sarajevo, Bosnia and Herzegovina*