KEYNOTE LECTURE

Keynote Lecture

(Oct 16, Fri., 9:50-10:50, Hall A)

Chair  Tsuneji Nagai (The Nagai Foundation Tokyo, Japan)

DEVELOPMENT OF MOLECULAR TARGETING THERAPEUTICS FOR AIDS: PAST, PRESENT & FUTURE

Hiroaki Mitsuya

Departments of Hematology, Rheumatology & Clinical Immunology, and Infectious Diseases, Kumamoto University, Japan and the Experimental Retrovirology Section, HIV & AIDS Malignancy Branch, Center for Cancer Research, National Cancer Institute, National Institutes of Health, USA
PLENARY LECTURE

Plenary Lecture 1  

(Oct 16, Fri., 11:10-11:55, Hall A)

Chair  
Chang-Koo Shim (Soul National Univ., Korea)

TRANSPORTERS AS A DETERMINANT OF CLEARANCE, TISSUE DISTRIBUTION AND PHARMACOLOGICAL/ADVERSE RESPONSE OF DRUGS

Yuichi Sugiyama

Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan

Plenary Lecture 2  

(Oct 17, Sat., 9:00-9:45, Hall A)

Chair  
Sompol Prakongpan (Mahidol Univ., Thailand)

CURRENT PROBLEMS IN CANCER CHEMOTHERAPY AND NEW DEVELOPMENTS TOWARD MORE CANCER SELECTIVE DRUG TARGETING BASED ON EPR-EFFECT

Hiroshi Maeda

Faculty of Pharmaceutical Sciences, Sojo University, Kumamoto, Japan
AFPS NAGAI-HISAMITSU
DISTINGUISHED SCIENTIST AWARD 2009 LECTURE

Nagai-Hisamitsu Award Lecture

(Oct 16, Fri., 14:00-14:40, Hall A)

Chair Yoshiaki Kawashima (Aichi Gakuin Univ., Japan)

ANTIOXIDANT ACTIVITY OF RENIN-ANGIOTENSIN SYSTEM INHIBITORS IN VASCULAR ENDOTHELIAL CELLS

Li-He Zhang

Key Laboratory of Natural & Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University, People’s Republic of China

AFPS SCIENTIST OF THE YEAR AWARD 2009

Chang-Koo Shim

National Research Laboratory for Transporters Targeted Drug Design & Research Institute of Pharmaceutical Sciences, Department of Pharmaceutics, College of Pharmacy, Seoul National University, Republic of Korea
Symposium 1. Drug Transport and Drug Discovery

Oct 16, Fri., 14:40-16:50, Hall A

Organizer
Ikumi Tamai (Kanazawa Univ., Japan)
Suk-Jae Chang (Seoul National Univ., Korea)

16S1-1 ROLE OF POLYMORPHIC P-GP AND CYP2C19 ON THE VARIABLE ANTI-PLATELET RESPONSE OF CLOPIDOGREL (PLAVIX®)
Saeho Chong
College of Pharmacy, Seoul National University, Korea

16S1-2 SURFACTANT/EXCIPIENT ACTIVITY AND DRUG ABSORPTION: NEW FINDINGS AND APPLICATIONS
Peter Langguth¹, Philipp Buch¹, Stefan Grube¹, Makoto Kataoka², Shinji Yamashita², Yoshiyuki Shirasaka³, Ikumi Tamai³, Per Holm⁴, Jesper Qvist Thomassen⁴, D. Scherer⁵
¹Department of Pharmaceutical Technology and Biopharmaceutics, School of Pharmacy, Johannes Gutenberg-University Mainz, Germany, and ²Faculty of Pharmaceutical Sciences, Setsunan University, Japan, and ³Faculty of Pharmacy, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Japan, and ⁴LifeCycle Pharma A/S, Denmark, and ⁵ApisPharma, Switzerland

16S1-3 AMINO ACID TRANSPORT IMAGING USING PET IN CLINICAL APPLICATION - [11C] MeAIB PET IMAGING AS A MARKER OF SYSTEM A AMINO ACID TRANSPORT -
Ryuichi Nishi¹, Tatsuya Higashi¹, Shinya Kagawa¹², Yoshihiko Kishibe¹, Masaaki Takahashi¹, Tomoya Uehara³, Masato Kobayashi², Shigeki Nagamachi⁴, Yasushi Arano³, Keiichi Kawai²⁵
¹Research Institute, Shiga Medical Center, ²Graduate School of Medical Science, Kanazawa University, ³Chiba University, Graduate School of Pharmaceutical Sciences, Chiba, Faculty of Medicine, ⁴Miyazaki University, and ⁵Biomedical Imaging Research Center, University of Fukui, Japan

16S1-4 DRUG TRANSPORTERS IN DRUG DEVELOPMENT. THE EMERGING ROLE OF COMBINED EFFECTS OF ENZYMES AND TRANSPORTERS
Thomas Ebner¹, Naoki Ishiguro², Wataru Kishimoto²
¹Department of Drug Metabolism and Pharmaceutics, Boehringer Ingelheim Pharma GmbH & Co KG, Germany, and ²Kobe Pharma Research Institute, Department of Pharmacokinetics and Non-Clinical Safety, Nippon Boehringer Ingelheim Co. Ltd., Japan
DRUG TRANSPORTERS AS TARGETS FOR DRUG DELIVERY AND CANCER CHEMOTHERAPY

Takeo Nakanishi, Ikumi Tamai

Department of Membrane Transport and Biopharmaceutics, Faculty of Pharmacy, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Japan
17S2-1 **NANOPARTICLES SHELLED WITH CHITOSAN FOR ORAL DELIVERY OF PROTEIN DRUGS**
Kiran Sonaje¹, Yu-Hsin Lin¹,², Jyu-Huang Juang³, Chiung-Tong Chen⁴, Hsing-Wen Sung¹
¹Department of Chemical Engineering, National Tsing Hua University, Taiwan, ROC, and ²Department of Biological Science and Technology, China Medical University, Taiwan, ROC, and ³Division of Endocrinology and Metabolism, Chung Gung University and Memorial Hospital, Taiwan, ROC, and ⁴Division of Biotechnology and Pharmaceutical Research, National Health Research Institutes, Taiwan, ROC

17S2-2 **CATIONIC DRUG-DERIVED NANOPARTICLES FOR DELIVERY OF SIRNAS**
Yu-Kyoung Oh¹, Rae-Sung Chang², Ming Sung Suh², Gayong Shim², Chan-Wha Kim²
¹School of Pharmacy, Seoul National University, South Korea and ²School of Life Sciences and Biotechnology, Korea University, South Korea

17S2-3 **HUMAN ALBUMIN BASED DRUG DELIVERY: ALBUMIN FUSION OF THIOREDOXIN**
Victor Tuan Giam Chuang¹,², Shotaro Ikuta¹, Toru Maruyama¹, Masaki Otagiri¹,³
¹Department of Biopharmaceutics, Graduate School of Pharmaceutical Sciences, Kumamoto University, Japan, and ²School of Pharmacy, Curtin Health Innovation Research Institute (CHIRI), Curtin University of Technology, Australia, and ³Faculty of Pharmaceutical Science, Sojo University, Japan

17S2-4 **MULTIFUNCTIONAL ENVELOPE TYPE NANO DEVICE FOR NON-VIRAL GENE DELIVERY CONCEPT AND APPLICATION OF PROGRAMMED PACKAGING**
Hideyoshi Harashima
Faculty of Pharmaceutical Sciences, Hokkaido University, Japan
Symposium 3. Drug Delivery and Technology

(Oct 17, Sat., 15:10-17:20, Hall A)

Organizer
Hiroaki Okada (Tokyo Univ. of Pharmacy and Life Sciences, Japan)
Hak-Kim Chan (The Univ. of Sydney, Australia)

17S3-1 USE OF CELL-PENETRATING PEPTIDES IN ENHANCING MUCOSAL ABSORPTION OF THERAPEUTIC PEPTIDES AND PROTEINS
Mariko Morishita
Department of Pharmaceutics, Hoshi University, Japan

17S3-2 DEVELOPMENT OF NOVEL PH-SENSITIVE POLYMERIC DRUG-CARRIERS FOR CANCER TARGETING
Eun Seong Lee
Division of Biotechnology, The Catholic University of Korea, Republic of Korea

17S3-3 DEVELOPMENT OF ACTIVE TARGETING DELIVERY SYSTEM TO THE BRAIN
Maggie Lu, Ya-Chin Lo, Yi-Ju Ko, Hsiang-Fa Liang, Li-Wen Chang
Drug Delivery Lab, Biomedical Engineering Research Laboratories, Industrial Technology Research Institute, Taiwan

17S3-4 SPECIFIC DRUG DELIVERY WITH LIPOSOMAL SYSTEMS IN THE EYE AND LUNG
Hirofumi Takeuchi
Laboratory of Pharmaceutical Engineering, Department of Drug Delivery Science and Technology, Gifu Pharmaceutical University, Japan

17S3-5 THE STORY OF ARIDOL™ – INHALED MANNITOL FOR DIAGNOSIS OF ASTHMA
Sandra D Anderson¹, John D Brannan¹, Hak-Kim Chan²
¹Department of Respiratory and Sleep Medicine, Royal Prince Alfred Hospital, and ²Advanced Drug Delivery Group, Faculty of Pharmacy, University of Sydney, Australia
Symposium 4. Target-Based Drug Discovery  
(Oct 17, Sat., 15:10-17:20, Hall B)

Organizer
Masami Otsuka (Kumamoto Univ., Japan)
Amit Basak (Indian Institute of Technology, India)

17S4-1 DEVELOPMENT OF NOVEL HIF-1α INHIBITORS AS ANTI-ANGIOGENIC AGENT
Young-Ger Suh, Dong-Jo Chang, Hongchan An
College of Pharmacy, Seoul National University, Republic of Korea

17S4-2 TOWARDS THE RATIONAL DESIGN AND TARGETED DELIVERY OF PLATINUM-BASED ANTI-CANCER DRUGS
Zijian Guo
School of Chemistry and Chemical Engineering, State Key Laboratory of Coordination Chemistry, Nanjing University, China

17S4-3 TOTAL SYNTHESIS OF ANTI-CANCER PLECOMACROLOIDE, 24-DEMETHYLBAFILOMYCIN C1 VIA RING-CLOSING METATHESIS OF THE Grafted Substrates
Wei-Min Dai
Laboratory of Asymmetric Catalysis and Synthesis, Department of Chemistry, Zhejiang University, China and Department of Chemistry, The Hong Kong University of Science and Technology, Hong Kong SAR, China

17S4-4 NOVEL CALCITRIOL DERIVATIVES: DESIGN, SYNTHESIS, AND PRELIMINARY BIOLOGICAL EVALUATION
Daisuke Sawada1, Masashi Takano1, Shinobu Honzawa1, Nozomi Saito1, Hiroshi Saito2, Shinji Kakuda2, Ken-ichiro Takagi2, Kyouhei Horie2, Eiji Ochiai2, Midori Takimoto-Kamimura2, Kazuya Takenouchi2, Toshiyuki Sakaki3, Atsushi Kittaka1
1Faculty of Pharmaceutical Sciences, Teikyo University, Japan, and 2Teijin Institute for Bio-medical Research, Teijin Pharma Ltd., Japan, and 3Faculty of Engineering, Toyama Prefectural University, Japan

17S4-5 DNA-CLEAVING AGENTS BASED ON DIRADICAL CHEMISTRY
Amit Basak, Sanket Das, Sayantan Mondal
Department of Chemistry, Indian Institute of Technology, India
LUNCHEON SEMINAR

Luncheon Seminar 1. Otsuka Pharmaceutical Co., Ltd.  
(Oct 16, Fri., 12:00-13:00, Hall A)
Chair Akira Tsuji (Kanazawa Univ., Japan)

PHARMACOPROTEOMICS (PPX): QUANTITATIVE TARGETED ABSOLUTE PROTEOMICS (QTAP) BASED PHARMACOKINETICS AS A NEW PATH FOR THE DRUG DISCOVERY AND DEVELOPMENT
Tetsuya Terasaki
Membrane Transport and Drug Targeting Laboratory, Graduate School of Pharmaceutical Sciences, Tohoku Univ., Japan

Luncheon Seminar 2. Shionogi Pharmaceutical Co., Ltd.  
(Oct 16, Fri., 12:00-13:00, Hall B)
Chair Ryozo Oishi (Kyushu Univ., Japan)

LIPOSOME
Kazuo Maruyama
Department of Biopharmaceutics, School of Pharmaceutical Sciences, Teikyo Univ., Japan

Luncheon Seminar 3. Daiichi Sankyo Co., Ltd.  
(Oct 17, Sat., 12:00-13:00, Hall A)
Chair Shun Higuchi (Kyushu Univ., Japan)

ANTI-INFLUENZA DRUGS AND THEIR CLINICAL EFFECTIVENESS IN JAPAN
Hideyuki Ikematsu
Department of Clinical Research, Hara-doi Hospital in Fukuoka, Japan

(Oct 17, Sat., 12:00-13:00, Hall B)
Chair Toru Maruyama (Kumamoto Univ., Japan)

RECENT ADVANCES IN THE MANAGEMENT OF CHRONIC KIDNEY DISEASE-MINERAL AND BONE DISORDER (CKD-MBD)
Masafumi Fukagawa
Division of Nephrology and Metabolism, Tokai Univ. School of Medicine, Japan
ORAL PRESENTATION

Oral Presentation 1 (Oct 16, Fri., 14:40-16:40, Hall B)

Chair: Chong Kook Kim (Seoul National Univ., Korea)
Masahiro Hayashi (Tokyo Univ., of Pharmacy and Life Sciences, Japan)

16O1-1 DO TITANUIM DIOXIDE-NANOPARTICLES PERMEATE THROUGH SKIN?
14:40-14:52 Eriko Kimura, Hiroaki Todo, Kenji Sugibayashi
Faculty of Pharmaceutical Sciences, Josai University, Japan

16O1-2 SKIN EXPOSURE BY HOUSEHOLD BIOCIDES
14:52-15:04 Takamasa Suzuki¹, Keiichi Nakada¹, Hiroshi Ishii¹, Hiroaki Todo¹, Hideto Jinno², Kenji
Sugibayashi¹
¹Faculty of Pharmaceutical Sciences, Josai University, Japan, and ²National Institute of
Health Science, Japan

16O1-3 IN-SKIN ELECTROPORATION USING A MICRONEEDLE ELECTRODES-ARRAY
15:04-15:16 Keshu Yan, Hiroaki Todo, Kenji Sugibayashi
Faculty of Pharmaceutical Sciences, Josai University, Japan

16O1-4 SKIN DELIVERY OF HIGH MOLECULAR WEIGHT HYDROPHILIC
15:16-15:28 COMPOUND USING HOLLOW MICRONEEDLES
Nanthida Wonglertnirant¹,², Tanasait Ngawhirunpat², Hiroaki Todo¹, Kenji Sugibayashi¹
¹Faculty of Pharmaceutical Sciences, Josai University, Japan, and ²Faculty of Pharmacy,
Silpakorn University, Thailand

16O1-5 DEVELOPMENT OF IMPLANT OF RISPERIDONE AS ANTIPSYCHOTIC DRUG
15:28-15:40 DELIVERY SYSTEM
H. Akbari Javar¹,², S. L. Wong², M. I. Noordin²
¹Cyberjaya University College of Medical Sciences, Malaysia, and ²Department of
Pharmacy, Faculty of Medicine, University of Malaya, Malaysia

16O1-6 IN VITRO DRUG RELEASE PROFILE OF IBUPROFEN IN PALM KERNEL
15:40-15:52 OIL-BASED TRANSDERMAL NANOEMULSION FORMULATIONS
Fitriyanti Oktavia¹, Bukhori Abu Bakar¹, Hamidon Basri², Mahiran Basri³, Ng S Fern¹,
Norazrina Azmi¹, Ahmad F Shamsuddin¹
¹Faculty of Pharmacy, Universiti Kebangsaan Malaysia, Malaysia, and ²Faculty of
Medicine, Universiti Kebangsaan Malaysia Medical Centre, Malaysia, and ³Faculty of
Science, Universiti Putra Malaysia, Malaysia
16O1-7 DEVELOPMENT OF EFFICIENT SIRNA DELIVERY SYSTEM TO TUMOR CELLS BY COMBINING OCTAARGININE, GALA AND ENZYMATICALLY-CLEAVABLE PEG-LIPID
Yu Sakurai1,3, Hiroto Hatakeyama1,3, Hidetaka Akita1,3, Motoi Oishi2,3, Yukio Nagasaki2,3, Shiroh Futaki4, Hideyoshi Harashima1,3
1Laboratory for Molecular Design of Pharmaceutics, Faculty of Pharmaceutical Sciences, Hokkaido University, Japan, and 2Tsukuba Research Center for Interdisciplinary Material Science (TIMS), University of Tsukuba, Japan, and 3CREST, Japan Science and Technology Agency (JST), Japan, and 4Institute for Chemical Research, Kyoto University, Japan

16O1-8 LACTOFERRIN-MODIFIED PROCATIONIC LIPOSOMES AS NOVEL DRUG CARRIER FOR BRAIN DELIVERY
He Qin, Tang Lei, Chen Hua-li, Qin Yao, Yin Yu-jia, Yuan Wen-min
Key laboratory of drug targeting and drug delivery system(Sichuan University), Ministry of Education, Chengdu, Sichuan, China

16O1-9 DUAL-DRUG DELIVERY SYSTEM BASED ON IN SITU GEL FORMING NANOSUSPENSION CONTAINING FORSKOLIN FOR GLAUCOMA TREATMENT
Saurabh Gupta1, Malay K. Samanta1, Ashok M. Raichur2
1Department of Pharmaceutics, J.S.S. College of Pharmacy, India, and 2Department of Materials Engineering, Indian Institute of Science, India

16O1-10 EVALUATION OF PLGA MICROPARTICLE ROLL TO OVERCOME INTESTINAL LIMITED ABSORPTION OF P-GLYCOPROTEIN SUBSTRATE BY EVERTED RAT INTESTINAL SAC MODEL
Katayoun Derakhshande1,2, Aidin Hosseinalizade1, Maryam Nikmohammadi1
1Department of Pharmaceutics, Faculty of Pharmacy, University of medical science, Iran, and 2Pharmaceutical Science Research Network, Iran
17O2-1 MOLECULAR PROPERTIES OF OFLOXACIN-TULSION-335 RESINATES
9:45-9:57 Naveen Mehta¹, Mahesh Kumar Gupta², Deepak Duggal¹
¹B. R. Nahata College of Pharmacy, Mhow-Neemuch Road Mandsaur (M.P.)-INDIA, and
²Kota College of Pharmacy, SP-1, RIICO Industrial Area (Kuber) Jhalawar Road, Ranpura, Kota (Raj.)

17O2-2 CHARACTERIZATION OF SODIUM NAPROXEN PSEUDOPOLYMORPHS BY MQMAS NMR
9:57-10:09 Ayako Yamamoto, Kenjirou Higashi, Kunikazu Moribe, Keiji Yamamoto
Department of Pharmaceutical Technology, Graduate School of Pharmaceutical Sciences, Chiba University, Japan

17O2-3 SOLID STATE NMR INVESTIGATION INTO THE MECHANISM OF INDOMETHACIN NANOPARTICLE FORMATION BY CO-GRINDING WITH β-CYCLODEXTRIN
10:09-10:21 Shuichi Tanabe, Satoko Yoshimatsu, Kenjirou Higashi, Kunikazu Moribe, Keiji Yamamoto
Department of Pharmaceutical Technology, Graduate School of Pharmaceutical Science, Chiba University, Japan

17O2-4 EFFECT OF SULFOBUTYL ETHER β-CYCLODEXTRIN ON THE AQUEOUS SOLUBILITY AND MASKING OF BITTER TASTE OF FAMOTIDINE IN THE ABSENCE AND PRESENCE OF PVP K30
10:21-10:33 Fatma M. Mady¹,², Ahmed E. Abou-taleb³, Khaled A. Khaled¹, Keishi Yamasaki², Daisuke Iohara¹, Takako Ishiguro³, Fumitoshi Hirayama³, Kaneto Uekama³, Masaki Otagiri²,⁴
¹Pharmaceutics Department, Faculty of Pharmacy, Al-Minya University, Egypt, and
²Department of Biopharmaceutics, Graduate School of Pharmaceutical Sciences, Kumamoto University, Japan, and
³Industrial Pharmacy Department, Faculty of Pharmacy, Assuit University, Egypt, and
⁴Faculty of Pharmaceutical Sciences, Sojo University, Japan

17O2-5 EVALUATION THE EFFECT OF CYCLODEXTRIN COMPLEXATION ON AQUEOUS SOLUBILITY OF FLUOROMETHOLONE TO ACHIEVE OPHTHALMIC SOLUTION
10:33-10:45 Sajadi Tabassi S. A., Malaekheh Nikuei B., Gholamzadeh A., Ashari H.
School of Pharmacy, Pharmacological Research Center of Medicinal Plants, Pharmaceutical Research Center, Mashhad University of Medical Sciences, Iran

17O2-6 A NOVEL SOLID DISPERSION OF POORLY WATER SOLUBLE DRUG WITH ALPHA-GLUCOSYL HESPERIDIN: DISSOLUTION AND ABSORPTION ENHANCEMENT
10:45-10:57 Hiromasa Uchiyama, Yuichi Tozuka, Hirofumi Takeuchi
Laboratory of Pharmaceutical Engineering, Gifu Pharmaceutical University, Japan
17O2-7  AEROSOL PERFORMANCE OF BOVINE SERUM ALBUMIN NANO-MATRICES FOR INHALATION
Philip C L Kwok¹, William Glover², Hak-Kim Chan¹
¹Advanced Drug Delivery Group, Faculty of Pharmacy, Building A15, The University of Sydney, Australia, and ²GlaxoSmithKline, Australia

17O2-8  CHARACTERISATION OF PALM OIL NANOEMULSION PREPARED FROM HIGHLY CONCENTRATED CUBIC PHASE O/W EMULSION
Tommy Julianto¹, Rosa Elisabeth Pereira², Yuen Kah Hay³, Abu Bakar Abdul Majeed¹
¹Biopharmaceutics and Pharmacokinetics Research, Unit, Faculty of Pharmacy, Universiti Teknologi MARA, Malaysia, and ²Pharmaceutical Technology-Nanotechnology Unit de Quimica Medicinal-CEQUIMED, Faculty of Pharmacy, Oporto University, Portugal, and ³School of Pharmaceutical Sciences, University of Sciences Malaysia, Malaysia

17O2-9  ROLE OF MURINE OATP1A4 IN THE HEPATIC UPTAKE OF DRUGS IN MICE
Junichi Takano, Kazuya Maeda, Yuichi Sugiyama
Department of Molecular Pharmacokinetics, Graduate School of Pharmaceutical Sciences, The University of Tokyo, Japan

17O2-10  EFFECT OF FIBROBLAST GROWTH FACTOR-23 ON THE EXPRESSION OF RENAL TRANSPORTERS
Takafumi Maeda¹, Hiroyuki Kusuhara¹, Hiroko Segawa², Ken-ichi Miyamoto², Yuichi Sugiyama¹
¹Graduate School of Pharmaceutical Sciences, the University of Tokyo, Japan, and ²Department of Nutrition, School of Medicine, Tokushima University, Japan

17O2-11  DOSE OPTIMIZATION OF IRINOTECAN IN PRESENCE OF P-GLYCOPROTEIN INHIBITOR, VERAPAMIL, IN RATS
Tripta Bansal¹², Manu Jaggi³, Roop K Khar¹, Sushama Talegaonkar¹
¹Dept. of Pharmaceutics, Jamia Hamdard, India, and ²ITS Paramedical (Pharmacy) College, India, and ³Dept. of Pre-clinical Research, Dabur Research Foundation, Ghaziabad, India
**Oral Presentation 3**

(Oct 17, Sat., 14:00-15:00, Hall A)

**Chair**
Hiroaki Nakagami (Daiichi Sankyo Co., Ltd., Japan)
Katsuhide Terada (Toho Univ., Japan)

**17O3-1**

**FABRICATION OF PARTICLE MORPHOLOGY FOR PULMONARY DRUG DELIVERY**

14:00-14:12

Kohsaku Kawakami¹, Chihiro Sumitani¹,², Shaoling Zhang¹, Yasuo Yoshihashi², Etsuo Yonemochi², Katsuhide Terada²

¹Biomaterials Center, National Institute for Materials Science and International Center for Materials Nanoarchitectonics, Japan, and ²Toho University, Faculty of Pharmaceutical Sciences, Japan

**17O3-2**

**PHYSICOCHEMICAL CHARACTERIZATION OF PHENYTOIN DERIVATIVE NANOPARTICLES PREPARED BY COGRINDING**

14:12-14:24

Kunikazu Moribe, Akiko Ogino, Kenjirou Higashi, Keiji Yamamoto

Department of Pharmaceutical Technology, Graduate School of Pharmaceutical Sciences, Chiba University, Japan

**17O3-3**

**REGENERATIVE AND REPLACEMENT MEDICINE**

14:24-14:36

Kunal Jain, P.N. Samrat Reddy, R. Suresh kumar, M.K. Samanta

Department of Pharmaceutics, J.S.S.College of Pharmacy Ooty, India

**17O3-4**

**RANDOMLY 50% N-ACETYLATED LOW MOLECULAR WEIGHT CHITOSAN AS A NOVEL RENAL TARGETING CARRIER**

14:36-14:48

Zhi-xiang Yuan, Zhi-rong Zhang, Xun Sun

West China School of Pharmacy, Sichuan University, P.R.China

**17O3-5**

**A NOVEL TECHNIQUE TO QUANTIFY CONDENSATION/DECONDENSATION STATUS IN THE NUCLEAR SUB-DOMAINS BY QD-FRET**

14:48-15:00

Sharif M Shaheen¹, Hidetaka Akita¹, Atsushi Yamashita², Ryo Katoono², Nobuhiko Yui², Vasudevanpillai Biju³, Mitsuru Ishikawa¹, Hideyoshi Harashima¹

¹Laboratory for Molecular Design of Pharmaceutics, Faculty of Pharmaceutical Sciences, Hokkaido University, Japan, and ²School of Materials Science, Japan Advanced Institute of Science and Technology, Japan, and ³Nanobioanalysis Team, Health Technology Research Center, National Institute of Advanced Industrial Science and Technology, Japan
Oral Presentation 4

Chair
Hitoshi Sasaki (Nagasaki Univ., Japan)
Shigeru Itai (Univ. of Shizuoka, Japan)

17O4-1
ESTIMATION OF P-GLYCOPROTEIN-MEDIATED INTERACTION OF DRUGS
FROM IN VITRO SIMULTANEOUS ANALYSIS OF DRUG DISSOLUTION AND
PERMEATION
Makoto Kataoka, Tomonori Yokoyama, Yoshie Masaoka, Shinji Sakuma, Shinji Yamashita
Faculty of Pharmaceutical Sciences, Setsunan University, Japan

17O4-2
MOLECULAR MECHANISMS FOR THE SINUSOIDAL EFFLUX OF REDUCED
GLUTATHIONE (GSH) FROM LIVER TO BLOOD IN MICE
Kazuya Maeda, Kazuya Kubo, Yuichi Sugiyama
Department of Molecular Pharmacokinetics, Graduate School of Pharmaceutical Sciences,
The University of Tokyo, Japan

17O4-3
MOLECULAR DOCKING SIMULATION STUDY OF NATURAL PRODUCTS AS
POTENT CHOLESTERYL ESTER TRANSFER PROTEIN INHIBITORS
Imtiaz K. Mohammed1,2, Muhamad Arief B. Mahjom1, Shaharuddin Mohamad1
1Faculty of Pharmacy, Cyberjaya University College of Medical Sciences, Malaysia, and
2School of Pharmacy, Universiti Sains Malaysia, Malaysia

17O4-4
MODIFICATION WITH REACTIVE ALDEHYDES ALTERS THE STRUCTURE
AND FUNCTION OF HUMAN SERUM ALBUMIN
Katsumi Mera1, Kazuhiro Takeo1, Miyoko Izumi2, Toru Maruyama1,2, Ryoji Nagai3, Masaki
Otagiri1,4
1Department of Biopharmaceutics, and 2Department of Clinical Pharmaceutics, Graduate
School of Pharmaceutical Sciences, Kumamoto University, Japan, and 3Department of Food
and Nutrition, Laboratory of Nutritional Science and Biochemistry, Japan Women’s
University, Japan, and 4Faculty of Pharmaceutical Sciences, Sojo University, Japan
POSTER PRESENTATION
(Oct 16, Fri.)

16P-1 NOVEL TRANSDERMAL NANOEMULSION DRUG DELIVERY SYSTEM OF INDOMETHacin
Saeid Rajabnezhad
Iranian Nanotechnolgy Institute, Iran

16P-2 PULMONARY GENE DELIVERY OF HYBRID VECTOR, LIPOPOLYPLEX CONTAINING N-LAUROYLSARCOSINE, VIA SYSTEMIC ROUTE
Tomoaki Kurosaki¹, Kozo Takayama², Takashi Kitahara¹, Tomoyuki Hamamoto¹, Hitoshi Sasaki¹
¹Department of Hospital Pharmacy, Nagasaki University Hospital, Japan, and ²Department of Pharmaceutics, Hoshi University, Japan

16P-3 DISULFIDE CROSS-LINKED BLOCK-OLIGOPEPTIDE (STR-CH₂R₄H₂C) AS A MULTIFUNCTIONAL DNA AND SIRNA VECTOR
Takanori Kanazawa¹, Yuuki Takashima¹, Takaya Ogawa¹, Yumiko Suda¹, Ko Tanaka¹, Tsunehiko Fukuda², Hiroaki Okada¹
¹School of Pharmacy, Tokyo University of Pharmacy and Life Sciences, Japan, and ²Nagahama Institute of Bio-Science and Technology, Japan

16P-4 A NOVEL GENE DELIVERY SYSTEM DESIGNING DUAL FUNCTIONALITIES OF NUCLEAR DELIVERY VIA MULTIFUNCTIONAL ENVELOPE-TYPE NANO DEVICE AND INTRANUCLEAR DNA RELEASE VIA BIOCLEAVABLE POLYROTAXANE
Taku Nomura¹, Yuma Yamada¹, Hideyoshi Harashima¹, Atsushi Yamashita², Ryo Katoono², Nobuhiko Yui²
¹Faculty of Pharmaceutical Sciences, Hokkaido University, Japan, and ²School of Materials Science, Japan Advanced Institute of Science and Technology, Japan

16P-5 ANALYSIS OF MICROTUBULE-DEPENDENT TRANSPORT IN LIPID-ENCAPSULATED DNA NANO-CARRIER BY REAL-TIME IMAGING: COMPARISON WITH ADENOVIRUS
Kaoru Enoto¹, Hidetaka Akita¹, Tomoya Masuda¹, Hiroyuki Mizuguchi³, Hideyoshi Harashima¹
¹Faculty of Pharmaceutical Sciences, Hokkaido University, Japan, and ²Graduate School of Pharmaceutical Sciences, Osaka University, Japan

16P-6 ENHANCED BIOABABILITY AND ANTIHISTAMINE ACTION OF LORATADINE BY TRANSDERMAL ADMINISTRATION OF THE GELS CONTAINING AN ENHANCER IN RATS
Dong-Hoon Ha¹, Hyo-Kyung Han¹, Jun-Shik Choi¹, Sang-Chul Shin²
¹BK21 Project Team, College of Pharmacy, Chosun University, Korea, and ²College of Pharmacy, Chonnam National University, Korea
16P-7 PREPARATION AND IN VITRO/IN VIVO EVALUATION OF THE SOLID DISPERSION OF VALSARTAN WITH POLOXAMER 407  
Hyoung-Kyu Lee¹, Sang-Chul Shin², Hyo-Kyung Han¹  
¹BK21 project team, College of Pharmacy, Chosun University, Korea, and ²College of Pharmacy, Chonnam National University, Korea

16P-8 DOXORUBICIN-LOADED, HEMATOPOPHORPHYIN-MODIFIED BOVINE SERUM ALBUMIN NANOPARTICLES AS A TARGETED DRUG DELIVERY SYSTEM FOR THE LIVER CANCER  
Ji-Eun Chang, Won-Sik Shim, Dae-Duk Kim, Suk-Jae Chung, Chang-Koo Shim  
Department of Pharmaceutics, College of Pharmacy, Seoul National University, Korea

16P-9 EFFECTS OF ENHANCING METHODS FOR TRANSBuccal DELIVERY OF SALMON CALCITONIN (SCT) AND ITS HISTOLOGICAL EVALUATION  
Dong-Ho OH¹, Sang-Ok JEON², Kyeung-Hwa CHUN³, Hee-Jin HWANG¹, Sun-Mi HONG¹, Sun-Heui HAN¹, Min-Ju KIM¹, SangKil LEE¹  
¹Department of Smart Foods and Drugs and ²Department of Biohealth products, Inje University, Korea

16P-10 FABRICATION AND EVALUATION OF RECOMBINANT HUMAN EPIDERMAL GROWTH FACTOR-LOADED SOLID LIPID NANOPARTICLES (SLN) USING W/O/W EMULSIFICATION METHOD  
Hee-Jin Hwang, Sang-Ok Jeon, Dong-Ho OH, Kyeung-Hwa CHUN, Sun-Mi HONG, Min-Ju KIM, Sun-Heui HAN, Jo-Eun Seo, Chong-Kook Kim, Sangkil Lee  
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16P-11 DETERMINATION OF SPF AND MOISTURIZING EFFECTS OF LIPOSOMAL AND CONVENTIONAL FORMULATIONS OF OMC AS A SUNSCREEN  
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16P-12 EVALUATION OF LIPOSOMAL AND CONVENTIONAL FORMULATIONS ON THE HUMAN PERCUTANEOUS ABSORPTION OF OMC AS A SUNSCREEN  
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16P-13 POTENTIAL OF NIosOME AS ANTIBIOTIC DELIVERY SYSTEM TO BACTERIAL BIOFILMS  
Ali Mohammadi Bardbori¹, Hamid Reza Mirzaei², Hadi Dibaj¹, Mohammad Eghbali³, Motahareh Mirzaei³  
¹Department of Medical Microbiology, School of Medicine, Isfahan University of Medical Sciences,
ENHANCED AND/OR SPECIFIC DELIVERY OF ANTI-TB DRUGS TO MACROPHAGES VIA ACETYLATED LDL FOR THE TREATMENT OF TUBERCULOSIS

Ali Mohammadi Bardbori, Hamid Reza Mirzaei, Hadi Dibaj, Mohammad Eghbali, Motahareh Mirzaei

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ENHANCED AND/OR SPECIFIC CO-DELIVERY OF ANTI-HIV/TB DRUGS TO MACROPHAGES VIA OXIDIZED-LDL FOR THE TREATMENT OF TB/HIV COINFECTION

Ali Mohammadi Bardbori, Hamid Reza Mirzaei, Hadi Dibaj, Mohammad Eghbali, Motahareh Mirzaei

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PREPARATION OF CHITOSAN NANOPARTICLES BY ELECTROSPRAY: EFFECTS OF OPERATION PARAMETERS AND SOLUTION PROPERTIES

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A NOVEL COMPLEX FORMATION OF SALICYLIC ACID AND γ-CYCLODEXTRIN-POLYPSEUDOROTAXANE

Kenjirou Higashi, Haruka Waraya, Kunikazu Moribe, Keiji Yamamoto

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SPRAY-DRYING OF LOW-Tg DRUG WITH THE AID OF EXCIPIENTS

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Biomaterials Center, National Institute for Materials Science and International Center for Materials Nanoarchitectonics, Japan, and Toho University, Faculty of Pharmaceutical Sciences, Japan
16P-19 OBSERVATION OF COLLAPSE PHENOMENON IN PHASE-SEPARATED FROZEN SOLUTIONS BY FREEZE-DRYING MICROSCOPY
Kahori Fujii1, Ken-ichi Izutsu2, Chikako Yomota2, Toru Kawanishi1, Yasuo Yoshihashi1, Etsuo Yonemochi1, Katsuhide Terada1
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16P-20 STUDY OF MOISTURE ADSORPTION MECHANISM OF ACRINOL ANHYDRATES
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16P-21 APPLICATION OF PAT IN THE STUDY OF FACTORS AFFECTING AGGLOMERATION IN SPRAY DRYING
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16P-22 EFFECT OF PIPERINE, A MAJOR COMPONENT OF BLACK PEPPER, ON THE INTESTINAL ABSORPTION OF FEXOFENADINE AND ITS IMPLICATION ON FOOD-DRUG INTERACTION
Dong Hoon Ha, Hyoung Kyu Lee, Hyo-Kyung Han
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16P-23 INTESTINAL ABSORPTION OF FLUOROQUINOLONE CIPROFLOXACIN BY OATP TRANSPORTERS
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16P-24 DECREASED HYPOTAUrine CONCENTRATION IN FETAL PLASMA AND PLACENTA OF EZRIN KNOCKOUT MICE AND TRANSPORT CHARACTERISTICS OF HYPOTAUrine IN THE PLACENTA
Kei Higuchi1, Tomohiro Nishimura1, Masatoshi Tomi1, Tomohiko Wakayama2, Atsushi Tamura3, Sachiko Tsukita3, Tomoyoshi Soga4, Yoshimichi Sai1,5, Emi Nakashima1
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16P-25 CHARACTERIZATION OF ADENOSINE UPTAKE IN RAT PLACENTAL BRUSH-BORDER MEMBRANE VESICLES
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16P-26 POPULATION PHARMACOKINETIC ANALYSIS OF LINEZOLID IN INFECTIOUS DISEASE PATIENT: APPLICATION TO LOWER BODY WEIGHT AND ELDERLY PATIENTS
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16P-27 FUNCTIONAL CONSEQUENCES OF OATP1B3 SNPs IN KOREAN POPULATION
Jung-Byung Chae, Kyung-Ha Yu, Mi-Hwa Kim, Kyeong-Ryoon Lee, Young-Sun Choi, Dae-Duk Kim, Chang-Koo Shim, Suk-Jae Chung
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16P-28 EVIDENCE OF CARRIER-MEDIATED TRANSPORT IN THE PENETRATION OF DONEPEZIL INTO THE RAT BRAIN
Mi-Hwa Kim¹, Han-Joo Maeng¹, Kyung-Ha Yu¹, Kyeong-Ryoon Lee¹, Takashi Tsuruo², Dae-Duk Kim¹, Chang-Koo Shim¹, Suk-Jae Chung¹
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16P-29 CONTRIBUTION OF A SIGNIFICANT FIRST PASS EFFECT OF DIMETHYL-4,4'-DIMETHOXY-5,6,5',6'-DIMETHYLENE DIOXYBIPHENYL-2,2'-DICARBOZYLATE IN THE LIVER FOR ITS BIOAVAILABILITY IN RATS
Kyung-Ha Yu, Ye-Rie Lee, Sung-Hoon Ahn, Dae-Duk Kim, Chang-Koo Shim, Suk-Jae Chung
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16P-30 DETERMINATION OF THE PRIMARY PHYSICOCHEMICAL PROPERTIES FOR THE DELIVERY OF DRUGS TO THE BRAIN AFTER THE NASAL ADMINISTRATION
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16P-31 EFFECT OF PIPERINE ON THE PHARMACOKINETICS OF CURCUMIN IN RATS
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16P-32 ELISA ANALYSIS METHOD VALIDATION FOR THE QUANTIFICATION OF RECOMBINANT HUMAN EPIDERMAL GROWTH FACTOR WITHIN RAT BLOOD AND THE PHARMACOKINETICS IN RATS
Dong-Ho OH, Jo-Eun SEO, Sang-Ok JEON, Hee-Jin HWANG, Kyeung-Hwa CHUN, Min-Ju KIM, Sun-Mi HONG, Sun-Heui HAN, Chong-Kook KIM, Sang-Kil LEE
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16P-33 TOTAL SYNTHESES AND SYNTHESIS-BASED STRUCTURE ELUCIDATION OF (−)-MACROSPHELIDES J AND K
Hwayoung Yun, Seunghye Kim, Hyunyoung Moon, Young-Ger Suh
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16P-34 DESIGN, SYNTHESIS AND IDENTIFICATION OF NOVEL COLCHICINE-DERIVED IMMUNOSUPPRESSANT
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16P-35 A NOVEL NITROARGININE DERIVATIVE: EFFECT ON KAINIC ACID-INDUCED SEIZURE AND HIPPOCAMPAL NITRIC OXIDE GENERATION
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16P-36 NEUROPROTECTIVE EFFECTS OF EXTRACTED COMPOUNDS FROM CLAUSENA HARMANDIANA LINN.
Chantana Boonyarat¹, Orawan Monthakantirat¹, Sutasinee Srisoi¹, Tula Thongthoom², Uraiwan Songsiang², Waranyoo Prasertcharoensuk¹, Jinda Wangboonsakul¹, Chavi Yenjai²
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16P-37 IN-PROCESS TRACKING OF MAGNESIUM STEARATE IN POWDER BLEND AND TABLETS
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16P-38 EVALUATING BIOACCESSIBILITY OF CADMIUM IN HERBAL MEDICINES BY DISSOLUTION TEST: IMPLICATIONS FOR SAFETY AND QUALITY CONTROL
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16P-39 NEUROPROTECTIVE EFFECTS OF CONSTITUENTS FROM DALBERGIA PARVIFLORA.
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16P-40 EFFECTS OF CURCUMIN ON DEPRESSION AND ANXIETY-LIKE BEHAVIOR IN UNPREDICTABLE CHRONIC MILD STRESS TREATED MICE
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16P-41 EFFECTS OF CURCUMIN ON BEHAVIORAL CHANGES IN SOCIAL ISOLATED MICE
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16P-42 EFFECTS OF BILOBALIDE, GINKGOLIDE B AND PICROTOXININ ON GABAA RECEPTOR MODULATION
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16P-43 EXENDIN-4 EXPRESSING ISLETS IMPROVE METABOLIC CONTROL AFTER RAT ISLET TRANSPLANTATION
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16P-44 MOLECULAR MECHANISM FOR ANTI-CANCER DRUG PACLITAXEL-INDUCED NEUROPATHIC PAIN - BEHAVIOR AND MICROARRAY ANALYSES –
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16P-45 DEXAMETHASONE REDUCED VORICONAZOLE PLASMA LEVEL IN A PATIENT WHO CARRIES CYP2C19 MUTANT
Kazuaki Matsumoto, Tomoko Kondo, Naoko Kanazawa, Yuta Yokoyama, Tomohide Fukamizu, Yasuo Takeda, Michiko Mukai, Hiroshi Arimura, Mitsuhiro Nakazaki, Kazuro Ikawa, Norifumi Morikawa, Chuwa Ter, Katsushi Yamada

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16P-46 METABOLIC PATHWAY OF THE TETRAHYDROFURAN MOIETY OF TEGAFUR IN ITS CONVERSION TO 5-FU CATALYZED BY CYP2A6 AND THYMIDINE PHOSPHORYLASE

Ikuo Yamamiya, Kunihiro Yoshisue, Eiji Matsushima, Sekio Nagayama
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16P-47 DEVELOPMENT OF AN ANALYTICAL METHOD FOR DETERMINATION OF ALENDRONATE SODIUM IN URINE BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY WITH FLUORESCENCE DETECTION

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16P-48 DIFFERENCES IN THE PLACENTAL TRANSPORT OF TWO NUCLEOSIDE ANALOG REVERSE TRANSCRIPTASE INHIBITORS, ZIDOVUDINE AND DIDANOSINE

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16P-49 PROPOSED DOSE OF HEMOGLOBIN VESICLES, PEGYLATED LIPOSOMES DEVELOPED AS A RED BLOOD SUBSTITUTE, DOES NOT INDUCE THE ACCELERATED BLOOD CLEARANCE PHENOMENON IN MICE

Kazuaki Taguchi¹, Hiroshi Watanabe¹², Yukino Urata¹, Makoto Anraku¹, Daisuke Kadowaki¹², Hiromi Sakai¹, Eishun Tsuchida³, Toru Maruyama¹², Masaki Otagiri¹⁴
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16P-50 ENHANCEMENT OF ZIDOVUDINE UPTAKE BY DHEAS IN RAT PLACENTAL SYNCTIOTROPHOBLASTS AND HUMAN CD4(+) T LYMPHOCYTES

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16P-51 INFLUENCES OF CYP2C9 GENOTYPES ON PHARMACOKINETICS AND PHARMACODYNAMICS OF NATEGLINIDE IN HEALTHY VOLUNTEERS AND PATIENTS WITH TYPE 2 DIABETES MELLITUS

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16P-52 CLONING OF MONKEY INTESTINAL CARBOXYLESTERASE AND EVALUATION OF ITS ESTERASE ACTIVITY IN STABLY-TRANSFECTED HEK293 CELLS
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16P-53 IN SITU AND IN VITRO EVALUATION OF INTESTINAL ABSORPTION OF TEMOCAPRIL
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16P-54 EVALUATION OF PRODRUG ABSORPTION BY CACO-2 CELLS AND NEW SUBCLONES
Masumi Imoto¹, Hikaru Nishiyama², Chiori Tsunawaki², Kayoko Ohura², Ikumi Tamai³, Teruko Imai²
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16P-55 PROTEIN EXPRESSION PROFILE ANALYSIS TO CLARIFY TRANSPORTERS AND ENZYMES INVOLVED IN GEMCITABINE SENSITIVITY IN PANCREATIC CANCERS
Ken Ohmine¹, Kei Kawaguchi², Sumio Ohtsuki¹, Shinichi Egawa², Michiaki Unno², Tetsuya Terasaki¹
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16P-56 PREDICTION AND VALIDATION OF BETA BLOCKER-ORANGE JUICE INTERACTIONS RELATED WITH INTESTINAL OATP
Yoshihiro Uesawa¹, Yuya Sato², Koichi Takeuchi², Kiminori Mohri¹
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16P-57 IN VITRO AND IN VIVO STUDIES ON PHARMACOKINETIC INTERACTIONS OF A STANDARDIZED HERBAL FORMULA CONSISTING OF COPTIS RHIZOMA, SCUTELLARIAE RADIX, PHELLODENDRI CORTEX, AND GARDENIAE FRUCTUS EXTRACTS
Yong Jun Shin, Hong Jae Yi, Ju-Hee Oh, Young-Joo Lee
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16P-58 BLOOD-BRAIN BARRIER TRANSPORT OF ORGANIC CATION DRUGS IN HUMAN IMMORTALIZED BRAIN CAPILLARY ENDOTHELIAL CELLS (hCMEC/D3)
Keita Shimomura1, Takashi Okura1, Sayaka Kato1, Margareta Hammarlund-Udenaes2, Pierre-Oliver Couraud3, Tetsuya Terasaki1, Yoshiharu Deguchi1
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16P-59 SUBSTRATE DEPENDENT EFFECT OF GENETIC VARIANTS OF NTCP ON THE UPTAKE OF STATINS
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16P-60 MINIMUM USE OF CYCLOSPORINE A FOR THE TREATMENT OF VORICONAZOLE IN PATIENTS OF CUTANEOUS ASPERGILLOSIS
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16P-61 TRANSCRIPTIONAL REGULATION OF NPC1L1 BY NUCLEAR RECEPTORS
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16P-62 CIRCADIAN CLOCK-CONTROLLED INTESTINAL EXPRESSION OF MULTIDRUG RESISTANCE GENE MDR1A IN MICE
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16P-63 IDENTIFICATION OF GENETIC POLYMORPHISMS OF HUMAN OAT1 AND OAT2 GENES AND THEIR RELATIONSHIP TO OAT2 EXPRESSION IN HUMAN LIVER
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16P-64 LONG-TERM ADMINISTRATION OF AN AQUEOUS EXTRACT OF DRIED, IMMATURE FRUIT OF PONCIRUS TRIFOLIATA (L.) RAF. SUPPRESSES BODY WEIGHT GAIN IN RATS
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16P-65 LMWH-TAUROCHOLATE CONJUGATE ACTS AS MOLECULAR TARGETING AGENT AND INHIBITS TUMOR ANGIGENESIS AND TUMOR GROWTH
Sungwoo Chung\textsuperscript{1}, Taslim Ahmed Al-Hilal\textsuperscript{1}, Ok Chul Jeon\textsuperscript{2}, Sang Mun Bae\textsuperscript{3}, Myungjin Lee\textsuperscript{4}, Rang-Woon Park\textsuperscript{3}, Sang Yoon Kim\textsuperscript{3}, Youngro Byun\textsuperscript{1}
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16P-66 NOVEL REFOLDING AND PURIFICATION STRATEGIES FOR THE 12 PEPTIDES OF HIRUDIN–RETEPLASE FUSION PROTEIN
Xie Weiquan\textsuperscript{1,2}, Yu Rong\textsuperscript{1}, Su Zhiguo\textsuperscript{2}, Zhang Guifeng\textsuperscript{2}
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16P-67 FACTORS AFFECTING COMPLIANCE AMONG ORAL HYPOGLYCAEMIC AGENTS (OHA) USERS AT A PUBLIC HOSPITAL IN MALAYSIA
Geok Hoon Yeo, Mudassir Anwar, Pei Se Wong
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16P-68 FATTY ACIDS COULD BE A NOVEL TYPE OF MEDIATOR OF S-DENITROSATION FROM S-NITROSYLATED HUMAN SERUM ALBUMIN
Yu Ishima\textsuperscript{1}, Toru Maruyama\textsuperscript{1,2}, Takaaki Akaike\textsuperscript{3}, Tomohiro Sawa\textsuperscript{3}, Ayaka Suenaga\textsuperscript{1}, Toshiya Kai\textsuperscript{1,4}, Masaki Otagiri\textsuperscript{1}
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16P-69 EVALUATION FOR ANTIoxidANT AND RENOPROTECTIVE ACTIVITY OF OLMESARTAN USING NEPHRECTOMY RATS
Daisuke Kadowaki\textsuperscript{1,2}, Makoto Anraku\textsuperscript{1}, Yuka Tasaki\textsuperscript{1}, Kazuaki Taguchi\textsuperscript{1}, Kazuki Shimoishi\textsuperscript{1}, Ayaka Suenaga\textsuperscript{1}, Hiroshi Watanabe\textsuperscript{1,2}, Sumio Hirata\textsuperscript{1,2}, Toru Maruyama\textsuperscript{1,2}, and Masaki Otagiri\textsuperscript{1,4}
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POSTER PRESENTATION

(Oct 17, Sat.)

17P-1 FORMULATION OF GLYCOLIC ACID SKIN GEL AND EVALUATION OF FORMULATION FACTORS EFFECTS ON RELEASE PATTERN
Eskandar Moghimipour, Mohammad Ali Dabbagh, Bahareh Rezaee
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17P-2 COMBINATION STRATEGIES FOR ENHANCING TRANSDERMAL ABSORPTION OF THEOPHYLLINE THROUGH SHED SNAKE SKIN
Eskandar Moghimipour¹, Seyyed Abolghassem Sajjadi Tabassi², Hadi Varghaei¹
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17P-3 CELL-SELECTIVE GENE TRANSFER USING MANNOSE-MODIFIED BUBBLE LIPOPLEXES AND ULTRASOUND EXPOSURE
Shigeru Kawakami¹, Keita Un¹, Ryo Suzuki², Kazuo Maruyama², Fumiyoshi Yamashita¹, Mitsuru Hashida¹,³
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17P-4 TEMPERATURE-DEPENDENT DRUG RELEASE UTILIZING FUNCTIONAL POLYMER INTRODUCED LIPOSOME
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17P-11 SKIN PERMEATION ENHANCEMENT OF DONEPEZIL BY FATTY ACIDS
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17P-19 FORMULATION OF OPHTHALMIC NANOSUSPENSIONS CONTAINING LEVOCABASTINE
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17P-20 DEVELOPMENT OF NEW CHITOSAN-BASED SIRNA DELIVERY SYSTEM
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17P-39  PROTEIN NANO-MATRICES WITH CONTROLLED ROUGHNESS FOR INHALATION
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17P-40  COATING OF STARCH GRAINS WITH STEARIC ACID USING SUPERCritical FLUID TECHNIQUE
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17P-41  CHARACTERIZATION AND IN-VITRO DISSOLUTION STUDIES OF SOLID DISPERSION SYSTEMS OF GLICLAZIDE WITH MACROGOLS
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17P-42  TRIALS OF NOVEL FLURBIPROFEN-LOADED SOLID DISPERSION WITH ENHANCED BIOAVAILABILITY USING AQUEOUS MEDIUM
Han-Gon Choi, Dong Hoon Oh, Jun Ho Sung, Jong Suk Lee, Chul Soon Yong
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17P-43  DEVELOPMENT OF ENHANCED BIOAVAILABILITY OF COENZYME Q10 BY SELF-EMUStFYING DRUG DELIVERY SYSTEM
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17P-45 EVALUATION OF THE RNA EDITING EFFICIENCY USING ANTISENSE OLGONUCLEOTIDES CONTAINING THE FUNCTIONAL NUCLEOSIDE
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17P-54 ANTIPRURITIC EFFECT OF BISABOLOL OXIDE A ISOLATED FROM DRIED GERMAN CHAMOMILE FLOWERS
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