

The AFPS Nagai-Shukri Pre-doctoral Oral and Poster Presentation Award

Oral Presentation Award

- 1601-3 IN-SKIN ELECTROPORATION USING A MICRONEEDLE ELECTRODES-ARRAY**
Keshu Yan, Hiroaki Todo, Kenji Sugibayashi
Faculty of Pharmaceutical Sciences, Josai University, Japan
- 1601-4 SKIN DELIVERY OF HIGH MOLECULAR WEIGHT HYDROPHILIC COMPOUND USING HOLLOW MICRONEEDLES**
Nanthida Wonglertnirant^{1,2}, Tanasait Ngawhirunpat², Hiroaki Todo¹, Kenji Sugibayashi¹
¹*Faculty of Pharmaceutical Sciences, Josai University, Japan, and* ²*Faculty of Pharmacy, Silpakorn University, Thailand*
- 1601-7 DEVELOPMENT OF EFFICIENT SIRNA DELIVERY SYSTEM TO TUMOR CELLS BY COMBINING OCTAARGININE, GALA AND ENZYMATICALLY-CLEAVABLE PEG-LIPID**
Yu Sakurai^{1,3}, Hiroto Hatakeyama^{1,3}, Hidetaka Akita^{1,3}, Motoi Oishi^{2,3}, Yukio Nagasaki^{2,3}, Shiroh Futaki⁴, Hideyoshi Harashima^{1,3}
¹*Laboratory for Molecular Design of Pharmaceutics, Faculty of Pharmaceutical Sciences, Hokkaido University, Japan, and* ²*Tsukuba Research Center for Interdisciplinary Material Science (TIMS), University of Tsukuba, Japan, and* ³*CREST, Japan Science and Technology Agency (JST), Japan, and* ⁴*Institute for Chemical Research, Kyoto University, Japan*
- 1601-8 LACTOFERRIN-MODIFIED PROCATONIC 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
- 1702-2 CHARACTERIZATION OF SODIUM NAPROXEN PSEUDOPOLYMORPHS BY MQMAS NMR**
Ayako Yamamoto, Kenjirou Higashi, Kunikazu Moribe, Keiji Yamamoto
Department of Pharmaceutical Technology, Graduate School of Pharmaceutical Sciences, Chiba University, Japan

1702-3 SOLID STATE NMR INVESTIGATION INTO THE MECHANISM OF INDOMETHACIN NANOPARTICLE FORMATION BY CO-GRINDING WITH β -CYCLODEXTRIN

Shuichi Tanabe, Satoko Yoshimatsu, Kenjirou Higashi, Kunikazu Moribe, Keiji Yamamoto
Department of Pharmaceutical Technology, Graduate School of Pharmaceutical Science, Chiba University, Japan

1702-4 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

Fatma M. Mady^{1,2}, Ahmed E. Abou-taleb³, Khaled A. Khaled¹, Keishi Yamasaki⁴, Daisuke Iohara⁴, Takako Ishiguro⁴, Fumitoshi Hirayama⁴, Kaneto Uekama⁴, Masaki Otagiri^{2,4}

¹*Pharmaceutics Department, Faculty of Pharmacy, Al-Minya University, Egypt, and*

²*Department of Biopharmaceutics, Graduate School of Pharmaceutical Sciences, Kumamoto University, Japan, and*

³*Industrial Pharmacy Department, Faculty of Pharmacy, Assuit University, Egypt, and*

⁴*Faculty of Pharmaceutical Sciences, Sojo University, Japan*

1702-6 A NOVEL SOLID DISPERSION OF POORLY WATER SOLUBLE DRUG WITH ALPHA-GLUCOSYL HESPERIDIN: DISSOLUTION AND ABSORPTION ENHANCEMENT

Hiromasa Uchiyama, Yuichi Tozuka, Hirofumi Takeuchi

Laboratory of Pharmaceutical Engineering, Gifu Pharmaceutical University, Japan

1702-7 AEROSOL PERFORMANCE OF BOVINE SERUM ALBUMIN NANO-MATRICES FOR INHALATION

Philip C L Kwok¹, William Glover², Hak-Kim Chan¹

¹*Advanced Drug Delivery Group, Faculty of Pharmacy, Building A15, The University of Sydney, Australia, and*

²*GlaxoSmithKline, Australia*

1702-9 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

Poster Presentation Award

**AP-1 ANALYSIS OF MICROTUBULE-DEPENDENT TRANSPORT IN
(16P-5) LIPID-ENCAPSULATED DNA NANO-CARRIER BY REAL-TIME IMAGING:
COMPARISON WITH ADENOVIRUS**

Kaoru Enoto¹, Hidetaka Akita¹, Tomoya Masuda¹, Hiroyuki Mizuguchi², Hideyoshi Harashima¹

¹*Faculty of Pharmaceutical Sciences, Hokkaido University, Japan, and* ²*Graduate School of Pharmaceutical Sciences, Osaka University, Japan*

**AP-2 DOXORUBICIN-LOADED, HEMATOPORPHYRIN-MODIFIED BOVINE SERUM
(16P-8) 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

**AP-3 EFFECTS OF ENHANCING METHODS FOR TRANSBUCCAL DELIVERY OF
(16P-9) SALMON CALCITONIN (SCT) AND ITS HISTOLOGICAL EVALUATION**

Dong-Ho OH¹, Sang-Ok JEON², Kyeong-Hwa CHUN¹, Hee-Jin HWANG¹, Sun-Mi HONG¹,
Sun-Heui HAN¹, Min-Ju KIM¹, SangKil LEE¹

¹*Department of Smart Foods and Drugs and* ²*Department of Biohealth products, Inje University, Korea*

AP-4 SPRAY-DRYING OF LOW-Tg DRUG WITH THE AID OF EXCIPIENTS

(16P-18) Yusuke Hasegawa^{1,2}, Kohsaku Kawakami¹, Yasuo Yoshihashi², Etsuo Yonemochi², Katsuhide Terada²

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

**AP-5 DETERMINATION OF THE PRIMARY PHYSICOCHEMICAL PROPERTIES FOR THE
(16P-30) DELIVERY OF DRUGS TO THE BRAIN AFTER THE NASAL ADMINISTRATION**

Kyeong-Ryoon Lee, Han-Joo Maeng, Mi-Hwa Kim, Jung-Byung Chae, Jun-Hyeng Son, Dae-Duk Kim, Chang-Koo Shim, Suk-Jae Chung

Department of Pharmaceutics, College of Pharmacy, Seoul National University, Korea

**AP-6 NEUROPROTECTIVE EFFECTS OF EXTRACTED COMPOUNDS FROM *CLAUSENA*
(16P-36) *HARMANDIANA* LINN.**

Chantana Boonyarat¹, Orawan Monthakantirat¹, Sutasinee Srisoi¹, Tula Thongthoom², Uraiwan Songsiang², Waranyoo Prasertcharoensuk³, Jinda Wangboonsakul¹, Chavi Yenjai²

¹*Faculty of Pharmaceutical Sciences, Khon Kaen University, Thailand, and* ²*Faculty of Sciences, Khon Kaen University, Thailand, and* ³*Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Mahidol University, Thailand*

AP-8 EFFECTS OF CURCUMIN ON DEPRESSION AND ANXIETY-LIKE BEHAVIOR IN (16P-40) UNPREDICTABLE CHRONIC MILD STRESS TREATED MICE

Keerakul Tingsa, Phantun Kongraphan, Yaowared Chulikhit

Faculty of Pharmaceutical Sciences, Khonkaen University, Thailand

AP-10 EFFECTS OF BILOBALIDE, GINKGOLIDE B AND PICROTOXININ ON GABAA (16P-42) RECEPTOR MODULATION

Chiu Chin Ng, Rujee K Duke, Tina Hinton, Graham AR Johnston

Department of Pharmacology, The University of Sydney, Australia

AP-11 EXENDIN-4 EXPRESSING ISLETS IMPROVE METABOLIC CONTROL AFTER RAT (16P-43) ISLET TRANSPLANTATION

Jee-Heon Jeong¹, Dong Yun Lee², Simmyung Yook¹, Yoonsuk Jung¹, Youngro Byun^{1,3}

¹*College of Pharmacy, Seoul National University, South Korea, and* ²*Department of Bioengineering, College of Engineering, Hanyang University, South Korea, and* ³*Department of Molecular Medicine and Biopharmaceutical Sciences, Seoul National University, South Korea*