

## Poster Presentations

(Day 2, 14:30-16:30)

- P-1 **Agglomeration Characteristics of Fine Cohesive Particles under Mechanical Vibration in a Gas-Solid Fluidized Bed**  
Y. Mawatari, M. Yamamura, H. Kage  
Kyushu Institute of Technology, JAPAN
- P-2 **Development of a Novel Fine Particle Wet Coating System**  
Y. Koga, H. Nakamura, S. Watano  
Osaka Prefecture University, JAPAN
- P-3 **Tungsten Carbide Particle Coating Process Using Continuous Dropping Electroless Plating for Producing Thermal Spray Coating Microparticles**  
C-C. Wang, C-Y. Yen, H-H. Chen  
Industrial Technology Research Institute, TAIWAN ROC
- P-4 **Preparation of Enteric-dispersible Microparticles Containing Nanoparticulate Poorly Water-soluble Drugs Using a Spouted Bed Coater with a Draft Tube**  
C. Ohtani, Y. Fukumori, H. Ichikawa  
Kobe Gakuin University, JAPAN
- P-5 **Preparation of Core Particles Applied for Microparticulate Coating Using Rotogranulation**  
R. Mise, M. Ishida, Y. Iwao, S. Noguchi, S. Itai  
University of Shizuoka, JAPAN
- P-6 **Particle Design Using Mechanical Powder Processing for Preparing Controlled Release Fine Particles**  
K. Kondo, N. Ito, T. Niwa  
Meijo University, JAPAN
- P-7 **Direct Coating for Ibuprofen Particles Using a Composite Fluidized Bed**  
N. Miyadai<sup>1</sup>, K. Higashi<sup>2</sup>, K. Moribe<sup>2</sup>, M. Oosawa<sup>2,3</sup>, R. Chiba<sup>2,3</sup>, K. Yamamoto<sup>2</sup>  
<sup>1</sup>Product Development & Planning, SSP Co., Ltd., JAPAN, <sup>2</sup>Chiba University, JAPAN, <sup>3</sup>Narita CHC Research Center, SSP Co., Ltd., JAPAN
- P-8 **Drug-layering of Fine Core Particles in a 5 g Batch Scale by a Miniature Spouted-bed Process**  
M. Moriya<sup>1</sup>, Y. Fukumori<sup>1</sup>, N. Asai<sup>2</sup>, H. Ichikawa<sup>1</sup>  
<sup>1</sup>Kobe Gakuin University, JAPAN, <sup>2</sup>Dalton Co., Ltd., JAPAN
- P-9 **Preparation and Evaluation of Chitosan Derivative Coating Dispersion for Colon Delivery**  
K. Yamada, Y. Iwao, S. Noguchi, S. Itai  
University of Shizuoka, JAPAN
- P-10 **Moisture Barrier Effect of PVA Copolymer (POVACOAT®) with Addition of Talc**  
S. Uramatsu<sup>1</sup>, T. Uemura<sup>1,2,3</sup>, T. Shimamoto<sup>1</sup>, Y. Fukumori<sup>3</sup>  
<sup>1</sup>Daido Chemical Corporation, JAPAN, <sup>2</sup>Pharm PolyTech Inc., JAPAN, <sup>3</sup>Kobe Gakuin University, JAPAN
- P-11 **Characterization of Hydroxypropyl Cellulose as a Binder for Drug-layering onto Fine Particles by Spouted-bed Spraying Process**  
K. Sugisawa<sup>1</sup>, S. Tsue<sup>1</sup>, H. Ichikawa<sup>2</sup>, Y. Fukumori<sup>2</sup>  
<sup>1</sup>Nippon Soda Co., Ltd., JAPAN, <sup>2</sup>Kobe Gakuin University, JAPAN
- P-12 **Morphology and Size Control for Amino Acid Particles in Interfacial Crystallization Processes with a Droplet-feeding Device**  
H. Tamura, Y. Shirakawa, A. Shimosaka, J. Hidaka  
Doshisha University, JAPAN

- P-13     **Synthesis of Composite Particles at Phase Boundary between Immiscible Liquids in Micro Reactors**  
Y. Hattori<sup>1</sup>, Y. Shirakawa<sup>1</sup>, A. Shimosaka<sup>1</sup>, J. Hidaka<sup>1</sup>, H. Ichikawa<sup>2</sup>, Y. Fukumori<sup>2</sup>  
<sup>1</sup>Doshisha University, JAPAN, <sup>2</sup>Kobe Gakuin University, JAPAN
- P-14     **Physicochemical Stability of Famotidine Polymorphs**  
F. Kato<sup>1</sup>, Y. Matsuda<sup>2</sup>, S. Watano<sup>1</sup>  
<sup>1</sup>Osaka Prefecture University, JAPAN, <sup>2</sup>Kobe Pharmaceutical University, JAPAN
- P-15     **Physical Characterization of Acetaminophen-Proline Cocrystal Prepared by Spray Drying**  
S. Kashiwagi<sup>1</sup>, Y. Kameya<sup>1</sup>, T. Fukami<sup>2</sup>, T. Tagami<sup>1</sup>, T. Suzuki<sup>2</sup>, K. Tomono<sup>1</sup>, T. Ozeki<sup>1</sup>  
<sup>1</sup>Nagoya City University, JAPAN, <sup>2</sup>Nihon University, JAPAN
- P-16     **Design and Preparation of Fine Granules by a High Speed Kneading Granulation**  
T. Masui<sup>1</sup>, H. Nakamura<sup>1</sup>, S. Watano<sup>1</sup>, M. Nakano<sup>2</sup>, H. Oishi<sup>3</sup>, T. Hayuka<sup>3</sup>  
<sup>1</sup>Osaka Prefecture University, JAPAN, <sup>2</sup>TDK Corporation, JAPAN, <sup>3</sup>Shinagawa Machinery Works Co., Ltd., JAPAN
- P-17     **Characterizing the Influence of Molecular Weight on the Rehydration Properties of Water-soluble Polymeric Powders**  
W. R. Mitchell<sup>1</sup>, L. Forny<sup>2</sup>, T. O. Althaus<sup>3</sup>, G. Niederreiter<sup>4</sup>, S. Palzer<sup>4</sup>, M. J. Hounslow<sup>1</sup>, A. D. Salman<sup>1</sup>  
<sup>1</sup>University of Sheffield, UK, <sup>2</sup>Nestlé Research Centre, SWITZERLAND, <sup>3</sup>Nestlé Product Technology Centre York, UK, <sup>4</sup>Nestlé SA Headquarters, SWITZERLAND
- P-18     **Usefulness of Mixer Torque Rheometer (MTR) for Pharmaceutical Design**  
T. Uemura<sup>1,2,3</sup>, M. Morizane<sup>1</sup>, S. Uramatsu<sup>2</sup>, Y. Fukumori<sup>3</sup>  
<sup>1</sup>Pharm PolyTech Inc., JAPAN, <sup>2</sup>Daido Chemical Corporation, JAPAN, <sup>3</sup>Kobe Gakuin University, JAPAN
- P-19     **Development of Oxygen Carrier Granulation Using Spray Drying for Chemical Looping Processes**  
M. Kawamura<sup>1</sup>, T. Komuro<sup>1</sup>, M. Ohtsuka<sup>1</sup>, S. Matsuda<sup>2</sup>, H. Hatano<sup>3</sup>  
<sup>1</sup>Ohtsuka Ceramics Inc., JAPAN, <sup>2</sup>The National Institute of Advanced Industrial Science and Technology, JAPAN, <sup>3</sup>Chuo University, JAPAN
- P-20     **Experimental Study on Morphology of Composite Agglomerates by Two-stage Wet Agglomeration**  
K. Oyabu, Y. Takata, H. Takase<sup>2</sup>  
<sup>1</sup>Graduate School of Science and Engineering for Education, University of Toyama, JAPAN, <sup>2</sup>Graduate School of Science and Engineering for Research, University of Toyama, JAPAN
- P-21     **Fine Particle Granulation Process Using High Share Granulator for Producing Controlled-release Microparticles**  
T. Yanagi<sup>1</sup>, Y. Iwakura<sup>2</sup>, Y. Tokunaga<sup>1</sup>  
<sup>1</sup>Pharmaceutical Development Department, Sawai Pharmaceutical Co., Ltd., JAPAN, <sup>2</sup>Kanto Plant, Sawai Pharmaceutical Co., Ltd., JAPAN
- P-22     **Dry Granulation Process Using Roller Compactor for Controlling Disintegration Property and Compactability of Tablets**  
Y. Takeuchi, M. Asano, R. Nawata, K. Tahara, H. Takeuchi  
Gifu Pharmaceutical University, JAPAN
- P-23     **Effect of Granulation on Solubility Enhancement of Hydroxypropyl Cellulose**  
K. Sugisawa, S. Tsue, T. Shimotori  
Nippon Soda Co., Ltd., JAPAN

- P-24 **Investigation of the Internal Structures of Tablets by Microtomography Using Synchrotron X-ray Radiation**  
R. Kajihara<sup>1</sup>, S. Noguchi<sup>1</sup>, Y. Iwao<sup>1</sup>, Y. Suzuki<sup>2</sup>, Y. Terada<sup>2</sup>, K. Uesugi<sup>2</sup>, S. Itai<sup>1</sup>  
<sup>1</sup>University of Shizuoka, JAPAN, <sup>2</sup>Japan Synchrotron Radiation Research Institute, JAPAN
- P-25 **Effect of Stator Geometry of Dry Impact Pulverizer on Its Grinding Performance**  
H. Kan<sup>1</sup>, H. Nakamura<sup>1</sup>, S. Watano<sup>1</sup>, N. Asai<sup>2</sup>  
<sup>1</sup>Osaka Prefecture University, JAPAN, <sup>2</sup>Dalton Co., Ltd., JAPAN
- P-26 **Improvement of Drug Dissolution Rate by Means of Supercritical CO<sub>2</sub>**  
Y. Sakamoto, H. Nakamura, S. Watano  
Osaka Prefecture University, JAPAN
- P-27 **Increasing the Solubility of Disulfiram without Degradation by Co-grinding with LubriTose™AN, a New Composite Material**  
G. Jing, H. Xu, C. Cai, Y. Zhang, X. Tang  
Shenyang Pharmaceutical University, CHINA
- P-28 **Agglomeration in Highly Concentrated Oil-continuous Food Suspensions: a Way to Tailor Products to Consumer Preferences**  
A. A. Negreiros<sup>1</sup>, T. O. Althaus<sup>2</sup>, G. Niederreiter<sup>3</sup>, S. Palzer<sup>3</sup>, M. J. Hounslow<sup>1</sup>, A. D. Salman<sup>1</sup>  
<sup>1</sup>University of Sheffield, UK, <sup>2</sup>Nestlé Product Technology Center, UK, <sup>3</sup>Nestlé S.A. Headquarters, SWITZERLAND
- P-29 Paper Withdrawn by the Authors
- P-30 **Oral Insulin Delivery System Based on Thiolated Eudragit Nanoparticles**  
Y. Zhang<sup>1,2</sup>, H. Xu<sup>1</sup>, C. Cai<sup>1</sup>, X. Tang<sup>1</sup>  
<sup>1</sup>Department of Pharmaceutics, Shenyang Pharmaceutical University, CHINA, <sup>2</sup>College of Science, Shenyang University, CHINA
- P-31 **Spherical Agglomeration of Pure Drug Nanoparticles for Enhanced Pulmonary Delivery**  
J. Hu<sup>1,2</sup>, Y. Dong<sup>1</sup>, G. Pastorin<sup>2</sup>, W. K. Ng<sup>1,2</sup>, R. B. H. Tan<sup>1,3</sup>  
<sup>1</sup>Institute of Chemical and Engineering Sciences, SINGAPORE, <sup>2</sup>Department of Pharmacy, National University of Singapore, SINGAPORE, <sup>3</sup>Department of Chemical and Biomolecular Engineering, National University of Singapore, SINGAPORE
- P-32 **Gadolinium-loaded Chitosan Nanoparticle (Gd-nanoCP) for Neutron Capture Therapy of Cancer: Preparation of Surface-modified Gd-nanoCPs and Their Biodistribution in Tumor-bearing Animals**  
T. Andoh<sup>1</sup>, T. Fujimoto<sup>2</sup>, H. Shinto<sup>3</sup>, T. Fukasawa<sup>3</sup>, F. Fujii<sup>4</sup>, O. Iob<sup>1</sup>, Y. Fukumori<sup>1</sup>, H. Ichikawa<sup>1</sup>  
<sup>1</sup>Kobe Gakuin University, JAPAN, <sup>2</sup>Hyogo Cancer Center, JAPAN, <sup>3</sup>Kyoto University, JAPAN, <sup>4</sup>JT Biohistory Research Hall, JAPAN
- P-33 **The Cucurbitacin-loaded Sustained Release Depots for Intratumoral Injection**  
J. Guo<sup>1</sup>, H. Xu<sup>1</sup>, C. Cai<sup>1</sup>, H. Yu<sup>1</sup>, X. Li<sup>1</sup>, Z. Tang<sup>2</sup>, J. Xu<sup>3</sup>, D.C. Liu<sup>3</sup>, X. Tang<sup>1</sup>  
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- P-34 **Parenterally Injectable Nanoparticulate *p*-borono-L-phenylalanine Formulations for Boron Neutron Capture Therapy of Cancer**  
T. Tajikawa<sup>1</sup>, T. Andoh<sup>1</sup>, H. Okura<sup>1</sup>, T. Fujimoto<sup>2</sup>, Y. Fukumori<sup>1</sup>, H. Ichikawa<sup>1</sup>  
<sup>1</sup>Kobe Gakuin University, JAPAN, <sup>2</sup>Hyogo Cancer Center, JAPAN

- P-35     **Novel Inhaled Formulation of Surfactant-coated Drug Nanoparticle/Mannitol Composites Prepared by a Unique Spray Nozzle-based Spray Dryer**  
R. Maeda, T. Ito, T. Tagami, T. Ozeki  
Nagoya City University, JAPAN
- P-36     **Stabilization Mechanism of Piroxicam Nanosuspension by Means of Suspension-state NMR Spectroscopy**  
Y. Hasegawa, K. Higashi, K. Moribe, K. Yamamoto  
Chiba University, JAPAN
- P-37     **A Floating-type and Bioadhesive Oral Dosage Form Based on Hollow Pellets: In Vitro and In Vivo Evaluation**  
C. Zhang, C. Cai, X. Tang  
Shenyang Pharmaceutical University, CHINA