

11th JCK Joint Symposium on Pharmacognosy Time Schedule

Day 1
September 18

	Room A	Room B	Room C	Room D	Room PA	Room PB
15:00	Opening Remarks 15:00-15:30				JSP67	
16:00	President Lectures 15:30-17:30				Poster Display 15:00-18:00	Poster Display 15:00-18:00
17:00						
18:00	Get-Together Time 17:30-19:00					
19:00						

JSP67 The programs of the JSP 67th Annual Meeting of Pharmacognosy

Day 2 September 19

	Room A	Room B	Room C	Room D	Room PA	Room PB
9:00			JSP67	JSP67	JSP67	
10:00		Invited Lectures 1 9:00-10:30	Oral Session Biological Activity, Screening 9:00-12:15	Oral Session Biosynthesis 9:00-12:15		
11:00	JSP67 President Lecture 11:00-11:45	Invited Lectures 2 10:45-12:15				
12:00						
13:00	Short Presentation (Poster) Online View 12:30-14:00	Luncheon Seminars 12:30-13:45	JSP67 Short Presentation (Poster) Online View 12:30-13:30		Poster Session 9:00-18:00	Poster Session 9:00-18:00
14:00		Organizers Meeting 14:00-14:30	JSP67 JONM 1 & 2 14:00-15:00	JSP67 Oral Session Research Materials, Raw Materials, Synthesis, Genetic Analysis 14:00-15:15		
15:00			JSP67			
16:00	Special Symposium: Quality Assurance & Therapeutic Evidence of Traditional East Asian Medicinal (TEAM) Products 15:00-17:00		Symposium 1 15:00-17:30		Discussion Core Time 15:30-16:30	
17:00						Discussion Core Time P3-01-91 16:30-17:30
18:00						

JSP67 The programs of the JSP 67th Annual Meeting of Pharmacognosy

The JSP 67th Annual Meeting of Pharmacognosy

September 20

	Room A	Room B	Room C	Room D	Room PA
9:00					
10:00	Award Lectures (2020) 9:30-11:40	Symposium 2 9:00-12:00	Oral Session Quality Evaluation and Control, Cultivation, Tissue Culture 9:00-12:15	Oral Session Constituent Research, Structure Elucidation 9:00-12:00	
11:00					
12:00					
13:00	Special Lecture 13:00-14:50	Short Presentation (Poster) Online View 12:30-13:30			Poster Session 9:00-18:00
14:00			Educational Lecture 14:00-15:00		
15:00					
16:00	Award Lectures (2021) 15:10-17:00	Public Seminar 15:00-17:30			Discussion Core Time 15:30-16:30
17:00					
18:00					

11th JCK Joint Symposium on Pharmacognosy PROGRAM

Day 1 September 18

Room A

15:00-15:30 **Opening Remarks**

15:30-17:30 **President Lectures**

Prof. Hiroshi Morita & Prof. Koji Ichinose (JSP)

PL1 Investigation on the Structures and Functions of Bioactive Natural Products from Chinese Toxic Plants

Shi-Shan Yu
President, The Chinese Society of Pharmacognosy

PL2 Antitumor Activity of Natural Phenanthroindolizidines and Daphnane Diterpenoids

Sang Kook Lee, Ji-Young Hong, Jayoung Song, Song Yi Bae, Donghwa Kim, Hyen Joo Park
President 2020, The Korean Society of Pharmacognosy

PL3 Search for Biofunctional Molecules of Several Spices

Hisashi Matsuda
President 2020, The Japanese Society of Pharmacognosy

17:30-19:00 **Get-Together Time**

Room PB

15:00-18:00 **Poster Display**

Day 2 September 19

Room A

12:30-14:00 **Short Presentation (Poster) Online View**

15:00-17:00 **Special Symposium: Quality Assurance & Therapeutic Evidence of Traditional East Asian Medicinal (TEAM) Products**

Dr. Yukihiro Goda (NIHS) & Dr. Takashi Morota (JKMA)

SS1-1 Clinical Research and Quality Control of ‘Kampo Medicines’ in an Aging Society

Shuhei Matsui
Tsumura Kampo Research Laboratories, Tsumura & Co., Japan

SS1-2 Discussion on the Application of Traditional Chinese Medicine in Geriatric Disease

Hao Quan¹, Tian Yanan²
¹Research Institute of Lanzhou Foci Pharmaceutical Co., Ltd., ²Lanzhou Foci International Business Co., Ltd.

SS1-3 Study on Novel Glycyrrhiza Variety to Register for Official Compendia

Jong-Sik Jin¹, Jeonghoon Lee²
¹Department of Oriental Medicine Resources, Jeonbuk National University, Korea
²National Institute of Horticultural and Herbal Science, RDA, Korea

Room B

9:00-10:30 Invited Lectures 1

Prof. Sang Hee Shim (KSP)

SI1-1 US FDA NDI (New Dietary Ingredient) Registration for Korean Herbal Medicine

Seungwoo Kang
Aribio Ltd. Natural Product Institution, Korea

SI1-2 Strategies to Elaborate TCM Quality Standard and Its Global Development

De-an Guo, Wanying Wu, Changliang Yao, Juan Da
Shanghai Research Center for TCM Modernization, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, China

SI1-3 Antidiabetic Active Thiosugar Sulfoniums, Salacinol and Neokotalanol, from Plants of the Genus Salacia

Toshio Morikawa
Pharm. Res. Technol. Inst., Kindai University, Japan

10:45-12:15 Invited Lectures 2

Prof. Chaomei Ma (CSP)

SI2-1 Discovery of the Leading Compounds and New Drugs from Traditional Chinese Medicines

Peng-Fei Tu
State Key Laboratory of Natural and Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University, China

SI2-2 Development of Indoor Farming Platform for Production and Standardization of High Value-added Natural Products

Chu Won Nho, Jae-Eok Park, Hyoung Seok Kim, Yang-Ju Son, Sang Hoon Jung, Sang Min Kim
Korea Institute of Science and Technology, Natural Products Research institute, Korea

SI2-3 Quality Control of Herbal Medicines in Japan

Yukihiro Goda
National Institute of Health Sciences, Japan

12:30-13:45 Luncheon Seminars

Prof. Hiroyuki Morita (JSP)

LS1 Introduction of Japanese Pharmacopoeia Reagent Products Assured with Purity Value by Quantitative NMR

Toru Miura
FUJIFILM Wako Pure Chemical Corporation, Japan

LS2 Introduction to Quantitative Analysis by NMR

Takanori Komatsu
JEOL RESONANCE, Inc., Japan

POSTER SESSION

Room PB

9:00-18:00 **Poster Display**

16:30-17:30 **Discussion Core Time (Zoom Breakout Room)**

P3-01 Search for natural products from *Terminalia bellirica* with AGS cytotoxicity

Teruhisa Manome¹, Yasumasa Hara^{1,2}, Firoj Ahmed³, Samir K.Sadhu⁴, Masami Ishibashi^{1,2}

¹Grad. Sch. Pharm. Sci., Chiba Univ, ²Plant Mol. Sci. Cen., Chiba Univ.

³Dept. Pharm. Chem., Univ. of Dhaka, ⁴Pharm. Discipline, Khulna Univ.

P3-02 New *ent*-Rosane Type Diterpenoids from Madagascar Endemic Plant: *Omphalea oppositifolia*

Kawakami, S.¹, Kanagawa, C.¹, Rakotondraibe, L. H.², Inagaki, M.¹, Nishimura, M.¹,

Matsunami, K.³, Otsuka, H.¹, Seyama, T.¹, Rakotoarisoa, M.⁴, Rakotonandrasana, S.R.⁴,

Ratsimbason, M.⁴

¹Faculty of Pharmacy, Yasuda Women's University, ²College of Pharmacy, The Ohio State University

³Department of Pharmacognosy, Graduate School of Biomedical and Health Sciences, Hiroshima University

⁴Centre National d'Application de Recherches Pharmaceutiques

P3-03 Jatrophane and Lathyrane Diterpenoids from *Euphorbia helioscopia* with Cytotoxicity against Taxol-resistant A549 Cells

Di Zhou¹, Takashi Kikuchi², Wei Li², Ning Li¹

¹School of Traditional Chinese Materia Medica, Shenyang Pharmaceutical University, ²Faculty of Pharmaceutical Sciences, Toho University

P3-04 A new monoterpene isolated from the rhizomes of *Alpinia galanga* and its anti-Vpr activity

Nhat Nam Hoang¹, Takeshi Kodama¹, Nwet Nwet Win¹, Prema¹, Kiep Minh Do¹, Ikuro Abe^{2,3}, Hiroyuki Morita¹

¹Institute of Natural Medicine, University of Toyama, ²Graduate School of Pharmaceutical Sciences, The University of Tokyo, ³Collaborative Research Institute for Innovative Microbiology, The University of Tokyo

P3-05 Effect of hydroxy groups activation of dimeric Nuphar alkaloids on TRPV1

Tomohisa Kanai¹, Shunsuke Nakamori¹, Megumi Hiraoka¹, Naruki Konishi¹, Tatsuya Shirahata¹, Toshiko Kagawa (Tanaka)², Hideto Jinno³, Yoshinori Kobayashi¹

¹Sch. of Pharm., Kitasato Univ., ²Yokohama Univ. of Pharm., ³Faculty of Pharm., Meijo Univ.

P3-06 Essential oil composition of medicinally used *Curcuma* species from Asia based on HS-SPME-GC-MS analysis

Qundong Liu¹, Katsuko Komatsu¹, Toume Kazufumi¹, Shu Zhu¹, Shigeki Hayashi², Naoko Anjiki², Nobuo Kawahara², Akihito Takano³, Katsunori Miyake⁴, Norio Nakamura⁵

¹Univ. of Toyama, ²RCMPR NIBIOHN, ³SPU, ⁴TUPLS, ⁵DWCLA

P3-07 Molecular Networking-based isolation of dimeric chromenes from leaves of *Melicope pteleifolia*

Yuya Kakumu¹, Minh Tu Thi Nguyen², Tohru Mitsunaga³

¹The United Graduate School of Agricultural Science, Gifu University, ²School of Biotechnology and Food Technology, Hanoi University of Science and Technology, ³Faculty of Applied Biological Sciences, Gifu University

P3-08 Structural analysis of saponins from the leaves of *Ilex kaushue* (Kudingcha)

Maki Suzuki¹, Minh Tu Thi Nguyen², Kosei Yamauchi¹, Tohru Mitsunaga¹

¹Graduate School of Natural Science and Technology, Gifu University, ²School of Biotechnology and Food Technology, Hanoi University of Science and Technology

P3-09 Identification of NK cell activator from *Citrus hystrix* leaf extracts

Takafumi Hara¹, Masahiro Kassai², Kosei Yamauchi¹, Tohru Mitsunaga¹

¹Graduate School of Natural Science and Technology, Gifu University, ²S&B FOODS INC.

P3-10 Studies on Uzbek medicinal plants (39): New norditerpenes from *Perovskia scrophulariifolia*

Sakura Takahashi, Naonobu Tanaka, Seita Kajihara, Kanji Niwa, Daisuke Tsuji, Kohji Itoh, Yoshiki Kashiwada
Graduate School of Pharmaceutical Sciences, Tokushima University

P3-11 Studies on the constituents of *Hypericum* plants (53): Structures and biological activities of dibenzo-1,4-dioxane derivatives isolated from the roots of *H. ascyron*

Yusei Shimomoto, Naonobu Tanaka, Kanji Niwa, Daisuke Tsuji, Kohji Itoh, Yoshiki Kashiwada
Graduate School of Pharmaceutical Sciences, Tokushima University

- P3-12 Phytochemical study on the roots of *Ferula communis* (5)**
Yuki Yoshino, Naonobu Tanaka, Daisuke Tsuji, Kohji Itoh, Yoshiki Kashiwada
 Graduate School of Pharmaceutical Sciences, Tokushima University
- P3-13 Isolation of CGA as a marker for the smaller "Euodia Fruit"**
Koryu Koyama¹, Anju Souda¹, Mizuki Matsuoka¹, Riho Miyawaki¹, Misaki Kokaji¹,
 Hiroaki Takemoto¹, Tatsuo Fukuda¹, Tetsuro Oikawa², Hiroshi Odaguchi², Toshihiko Hanawa²,
 Tatsuya Shirahata^{1,2}, Yoshinori Kobayashi^{1,2}
¹School of Pharmacy, Kitasato University, ²Kitasato University Oriental Medicine Research Center
- P3-14 Phenylpropanoid conjugated iridoid glucosides from leaves of *Morinda morindoides* and their anti-trypanosomal activity**
Yasinjan Hashim¹, Kazufumi Toume¹, Shusaku Mizukami², Toshinori Kitami¹, Yuki Tayama², Nguyen Tien Huy²,
 José Nzunzu Lami³, Joseph M. Bodi⁴, Kenji Hirayama², Katsuko Komatsu¹
¹Inst. Nat. Med., Univ. Toyama, ²Inst. Trop. Med., Nagasaki Univ, ³Fac. Pharm. Sci., Univ. Kinshasa, ⁴Fac. Med., Univ. Kinshasa
- P3-15 New Saponins and Flavonoids from *Stewartia koreana***
Jungmoo Huh, Tae Kyu Park, Chae-Young An, Sinae Lee, Jinwoong Kim, Young-Won Chin
 College of Pharmacy and Research Institute of Pharmaceutical Sciences, Seoul National University
- P3-16 Antioxidant and antidiabetic activities of flavonoid derivatives from the outer skins of *Allium cepa* L.**
Ngoc Khanh Vu, Manh Tuan Ha, Byung Sun Min
 College of Pharmacy, Drug Research and Development Center, Daegu Catholic University
- P3-17 New dimeric coumarins isolated from the stem of *Paramignya trimera* and their cytotoxicity**
Jin Bae Lee, Khong Trong Quan, Min Kyun Na
 College of Pharmacy, Chungnam National University
- P3-18 Anti-inflammatory effect of tulipiferamide A, a new alkamide from *Liriodendron tulipifera***
Da Yeun Kang¹, In Wha Park¹, ¹Hee Sun Byun², Gang Min Hur², Min Kyun Na¹
¹College of Pharmacy, Chungnam National University, ²Department of Pharmacology and Department of Medical Science, College of Medicine
- P3-19 Compounds from the twigs of *Morus alba* Linné enhance skeletal muscle growth in C2C12 cells**
Hee Jae Kwak¹, Seon Ju Park², Seung Hyun Kim¹
¹College of Pharmacy, Yonsei Institute of Pharmaceutical Sciences, Yonsei University, ²Chuncheon Center, Korea Basic Science Institute (KBSI)
- P3-20 Butenolides with anti-inflammatory activity from the flowers of *Melodorum fruticosum***
Yusuke Sakamoto¹, Yoshiaki Manse¹, Saowanee Chaipech³, Yutana Pongpiriyadacha⁴,
 Genzoh Tanabe^{1,2}, Toshio Morikawa¹
¹Pharm. Res. Technol. Inst. and, ²Faculty of Pharmacy, Kindai Univ., ³Faculty of Agro-Industry, and, ⁴Faculty of Science and Technol., Rajamangala Univ. of Technol. Srivijaya
- P3-21 Bioassay-guided isolation of antioxidant response element inducing compounds from *Centipeda minima* using comprehensive linear gradient centrifugal partition chromatography**
Ji Hoon Kim, Eun Ju Jung, Yun Jung Lee, En Mei Gao, Chul Young Kim
 College of Pharmacy, Hanyang University
- P3-22 Bioactive constituents of *Artemisia fukudo* Makino that improve benign prostatic hyperplasia**
Yun Na Kim¹, Yu Jung Kim¹, Min Gyu Park^{1,2}, Jae Sun Lee³, Eun Ju Jeong¹
¹Department of Plant & Biomaterials Science, Gyeongsang National University, ²Medicinal Resources Research Institute, ³Institute of Hadong Green Tea
- P3-23 Two new quinoline alkaloids from *Scolopendra subspinipes mutilans***
Tao Yuan, Min Kyun Na
 College of Pharmacy, Chungnam National University
- P3-24 Benzaldehyde Derivative Obtained from *Hypoxylon truncatum* NBRC 32353 Treated with Hygromycin B**
Hitoshi Kamauchi¹, Mitsuaki Suzuki², Koichi Takao¹, Yoshiaki Sugita¹
¹Faculty of Pharmacy and Pharmaceutical Sciences, Josai University, ²Faculty of Science, Josai University

- P3-25 Taichunins E-T that Inhibit RANKL-Induced Formation of Multinuclear Osteoclasts from *Aspergillus taichungensis* (IBT 19404)**
Ahmed El-Desoky, Natsumi Inada, Yuka Maeyama, Hikaru Kato, Yuki Hitora, Momona Sebe, Mika Nagaki, Aika Kai, Keisuke Eguchi, Sachiko Tsukamoto
 Graduate School of Pharmaceutical Sciences, Kumamoto University
- P3-26 Exploratory research of bioactive compounds from Fungi *Aspergillus* species to address unmet medical needs**
Kazuki Ishikawa¹, Shinya Ohata¹, Masaki Ishii¹, Takashi Yaguchi², Toshiaki Katada¹, Koji Ichinose¹
¹Research Institute of Pharmaceutical Sciences, Faculty of Pharmacy, Musashino University, ²Medical Mycology Research Center, Chiba University
- P3-27 New cyclic lipodepsipeptides and polyketides from a halophyte-associated fungus, *Colletotrichum gloeosporioides* JS0417**
Changyeol Lee¹, Sang Hee Shim²
¹College of Pharmacy, Duksung Women's University, ²Natural Products Research Institute, College of Pharmacy, Seoul National University
- P3-28 Anti-melanogenic compound from *Penicillium* sp. SNF-123 Isolated from *Panax ginseng***
 Sang-Jip Nam¹, Prima Fitria Hillman¹, Kung-Min Lim²
¹Department of Chemistry and Nano Science, Ewha Womans University, ²College of Pharmacy, Ewha Womans University
- P3-29 Photoisomerization of glaciapyrroles from deep sea sediment *Streptomyces* sp.**
Keebeom Ko¹, Seong-Hwan Kim², Hak Cheol Kwon², Dong-Chan Oh¹
¹Natural Products Research Institute, College of Pharmacy, Seoul National University, ²KIST Gangneung Institute of Natural Products
- P3-30 Two macrocyclic lactones isolated from a marine-derived *Bacillus* sp.**
Cui Jinsheng, Daniel Shin, Dong-Chan Oh
 Natural Products Research Institute, College of Pharmacy, Seoul National University
- P3-31 Identification of an Anti-Aging Secondary Metabolite from Marine-Derived Sediment *Streptomyces* sp.**
Eun-Young Lee¹, Jaeyoung Ko², Sang-Jip Nam¹
¹Department of Chemistry and Nano Science, Ewha Womans University, ²Amorepacific Corporation R&D Center
- P3-32 A Cyclic Tetrapeptide, Androsamide from Marine Actinomycetes *Nocardiopsis* sp.**
Prima F. Hillman¹, Jihye Lee², Hangun Kim³, Sang-Jip Nam¹
¹Department of Chemistry and Nano Science, Ewha Womans University, ²Laboratories of Marine New Drugs, REDONE SEOUL, ³College of Pharmacy, Sunchon National University
- P3-33 PPAR- γ agonistic metabolites from the jellyfish-derived fungus *Penicillium chermesinum* M42**
Ying Wang, Eun La Kim, Dandan Li, Jee H. Jung,
 Department of Pharmacy, College of Pharmacy, Pusan National University
- P3-34 Conformational Analysis of Triptolide**
Yasunori Yaoita, Koichi Machida
 Faculty of Pharmaceutical Sciences, Tohoku Medical and Pharmaceutical University
- P3-35 Identification and analysis of the metabolic profiles of the defatted walnut powder *in vitro* based on UPLC-Q-Exactive Orbitrap MS**
Shumeng Ren¹, Qingzhu Zhang¹, Dongmei Wang², Yingni Pan¹, Xiaoqiu Liu¹
¹School of Traditional Chinese Medicine, Shenyang Pharmaceutical University, ²School of Pharmacy, Shenyang Pharmaceutical University
- P3-36 Cell line screening study on the anti-gastric cancer activity of unexplored plants in Kyushu and Shikoku islands**
Dongxing Wang¹, Lingfeng Fu², Doaa Alsaadi¹, Hiroki Murakami¹, Takatsugu Ishimoto², Takashi Watanabe¹
¹Department of Medicinal Plant, Graduate school of Pharmaceutical Sciences, Kumamoto University, ²Department of Gastroenterological Surgery, Graduate school of Medical Sciences, Kumamoto University

- P3-37 Construction of the FHH Electric Green Book (e-GB)**
 Noriaki Kawano¹, Naoko Anjiki¹, Sayaka Masada², Nobuo Kawahara^{1,3}, Takashi Hakamatsuka², Kayo Yoshimatsu¹
¹Research Center for Medicinal Plant Resources, NIBIOHN, ²National Institute of Health Sciences,
³The Kochi Prefectural Makino Botanical Garden
- P3-38 ¹H-NMR and GC/HPLC metabolic profiling of herbal medicines in *Polygalaceae*.**
 Tatsuki Kitazoe¹, Tatsuya Shirahata¹, Eiiichi Kodaira¹, Takuro Maruyama², Noriaki Kawano³, Hiroyuki Fuchino³,
 Yasushi Kitano⁴, Nobuo Kawahara^{3,5}, Kayo Yoshimatsu³, Yoshinori Kobayashi¹
¹Sch of Pharm., Kitasato Univ., ²National Institute of Health Sciences, ³Res. Centerfor Med. Plant Res, NIBIOHN,
⁴NIPPON FUNMATSU YAKUHIN CO., LTD, ⁵Makino Botanical Garden
- P3-39 Compositional variation of atranorin-related components of lichen *Myelochroa leucotyiza* dependent on extraction solvent and their quantitative analysis by qHNMR**
 Yun-Seo Kil¹, Manju Ojha¹, Ui Joung Youn^{2,3}, Hyukjae Choi¹, Joo-Won Nam¹
¹College of Pharmacy, Yeungnam University, ²Division of Life Sciences, Korea Polar Research Institute, KIOST,
³Department of Polar Sciences, University of Science and Technology
- P3-40 *Ent*-kaurane-type diterpenoids from *Isodonis Herba* as Proliferative Agents on Human Follicle Dermal Papilla Cells**
 Yoshiaki Manse^{1,3}, Fenglin Luo¹, Kazuhiro Kato¹, Akane Okazaki¹, Eriko Okada^{1,3}, Mitsuhiro Yanagida³,
 Sho Nakamura³, Toshio Morikawa^{1,2}
¹Pharm. Res. Technol. Inst., ²Antiaging Center, Kindai Univ., ³Kaminomoto Co., Ltd
- P3-41 Bioactive compounds with TRAIL-resistance overcoming activity from *Murraya exotica***
 Kritamorn Jitrangri¹, Firoj Ahmed², Samir K.sadhu³, Yasumasa Hara¹, Akiko Takaya¹, Masami Ishibashi¹
¹Natural Products Chemistry, Graduate School and Faculty of Pharmaceutical Sciences, Chiba University, ²Faculty of
 Pharmaceutical Sciences, Dhaka University, ³Faculty of Pharmaceutical Sciences, Khulna University
- P3-42 Neurite outgrowth effect on PC12 cells from *Piper longum* fruit extracts**
 Runa Fujimoto¹, Masahiro Kassai², Kosei Yamauchi¹, Tohru Mitsunaga¹
¹Graduate School of Natural Science and Technology, Gifu University, ²S&B FOODS INC.
- P3-43 Comparison of the inducible effects of granulocyte-colony stimulating factor (G-CSF) secretion among the extracts of ginseng with or without processing**
 Kewen Ding¹, Yoshiaki Tabuchi², Toshiaki Makino¹
¹Department of Pharmacognosy, Graduate School of Pharmaceutical Sciences, Nagoya City University, ²Division of
 Molecular Genetics Research, Life science Research Center, Toyama University
- P3-44 Echinacoside isolated from *Rehmannia glutinosa* Libosch alleviated corticosterone-induced apoptosis in PC-12 cell line**
 Li Zhang^{1,2}, Yohei Sasaki², Ren-Rui Lu¹, Hui-Hui Wang¹, Xiao-Ke Zheng¹, Wei-Sheng Feng¹
¹School of Pharmacy, Henan University of Chinese Medicine, ²Faculty of Pharmacy, Kanazawa University
- P3-45 Flavonoid Constituents from *Coreopsis tinctoria* and Their Aromatase Inhibitory Activities**
 Fenglin Luo¹, Satoshi Ishikawa¹, Tao Wang³, Anxin Chen⁴, Kiyofumi Ninomiya¹, Toshio Morikawa^{1,2}
¹Pharm. Res. Technol. Inst., ²Antiaging Center, Kindai Univ., ³Inst. of TCM, Tianjin Univ. of Trad. Chin. Med.,
⁴Xinjiang Life Sci. Technol. Co., Ltd.
- P3-46 Oxytocin enhancing effect of the leaf extract from *Alpinia zerumbet***
 Suttinont Chawapun, Yuki Nakajima, Hiroko Manabe, Kaori Inoue
 Shiseido Co., Ltd MIRAI Technology Institute
- P3-47 Effect of Harvesting Time on metabolic profile of Barley Sprouts (*Hordeum vulgare* L.)**
 Jae Youn Lee, Mira Oh, Seung Hyun Kim
 College of pharmacy, Yonsei Institute of Pharmaceutical Sciences, Yonsei University
- P3-48 Identification of Bioactive Natural Product from the Stems and Stem Barks of *Cornus walteri*: Benzyl Salicylate Shows Potential Anti-inflammatory Activity in Lipopolysaccharide-stimulated RAW 264.7 Macrophages**
 Se Yun Jeong, Hee Joo Jang, Akida Alishir, Heesun Kang, Ji Won Ha, Myung Woo Na, Min Jung Yoo,
 Tae Wan Kim, Bum Soo Lee, Ki Hyun Kim
 Natural Product Research Laboratory, School of Pharmacy, Sungkyunkwan University

- P3-49 Bioactive Phytochemicals from Mulberry: Potential Anti-inflammatory Effects in Lipopolysaccharide-stimulated RAW 264.7 Macrophages**
Hee Joo Jang, Se Yun Jeong, Akida Alishir, Heesun Kang, Ji Won Ha, Myung Woo Na, Min Jung Yoo, Tae Wan Kim, Bum Soo Lee, Ki Hyun Kim
 Natural Product Research Laboratory, School of Pharmacy, Sungkyunkwan University
- P3-50 Thymic stromal lymphopoietin inhibitory lignans of *Machilus thunbergii* barks**
Hyeji Shin, Yoo Kyong Han, Youngjoo Byun, Young Ho Jeon, Ki Yong Lee
 College of Pharmacy, Korea University
- P3-51 Anti-diabetic potential of new prenylated isoflavonoids in *Masclura tricuspidata* leaves**
 Yang Hee Jo¹, Solip Lee¹, Sang Won Yeon¹, Ayman Turk¹, Jae Hyuk Lee², Seong-Min Hong², Yoo Kyong Han³, Ki Yong Lee³, Bang Yeon Hwang¹, Sun Yeou Kim², Mi Kyeong Lee¹
¹College of Pharmacy, Chungbuk National University, ²College of Pharmacy, Gachon University
³College of Pharmacy, Korea University
- P3-52 Effect of Nacre Extract against emotional disfunction in Senescence-Accelerated mouse model (SAMP8)**
Tomoki Omachi, Yasushi Hasegawa
 Muroran Institute of Technology
- P3-53 Neuroprotective Effects of N-Acetyldopamine Dimers from Cicadidae Periostracum**
Punam Thapa, Nikita Katila, Hyukjae Choi, Dong-Young Choi, Joo-Won Nam
 College of Pharmacy, Yeungnam University
- P3-54 Pulveraven A from the fruiting bodies of *Pulveroboletus ravenelii* induces apoptosis in breast cancer cell via extrinsic apoptotic signaling pathway**
Tae Wan Kim, Se Yun Jeong, Akida Alishir, Heesun Kang, Ji Won Ha, Myung Woo Na, Min Jung Yoo, Hee Joo Jang, Bum Soo Lee, Ki Hyun Kim
 Natural Product Research Laboratory, School of Pharmacy, Sungkyunkwan University
- P3-55 A new glucose uptake-stimulating PPAR- γ agonist isolated from the jellyfish-derived fungus *Aspergillus flavus***
Dan-dan Li, Jee H. Jung
 College of Pharmacy, Pusan National University
- P3-56 A biflavonoid amentoflavone inhibits hepatitis B virus infection**
Chie Aoki-Utsubo¹, Puguh Indrasetiawan¹, Kento Fukano², Masamichi Muramatu², Hak Hotta³, Masanori Kameoka¹
¹Kobe University Graduate School of Health Sciences, ²National Institute of Infectious Diseases
³Konan Women's University
- P3-57 Development of icELISA for the Detection of the Prohibited Doping Agent Higenamine**
Poomraphie Nuntawong, Hiroyuki Tanaka, Seiichi Sakamoto, Satoshi Morimoto
 Graduate School of Pharmaceutical Sciences, Kyushu University
- P3-58 Studies on the Classification of Four types of *Rutaceae* (Jinpi, Chungpi, Jigak, Jisil) plants using LC-MS/MS based Molecular Networking Approach**
Seong Yeon Choi, Eunyoung Mok, Heejung Yang
 Laboratory of Natural Products Chemistry, College of Pharmacy, Kangwon National University
- P3-59 Non-targeted Metabolism Study of Seongsanamide A by Using Metabolomics and Feature-based Molecular Networking with in vitro Human Liver Microsomes**
Geum Jin Kim¹, Zhexue Wu², Kwang-Hyeon Liu^{2,3}, Hyukjae Choi¹
¹College of Pharmacy and Research Institute of Cell Culture, Yeungnam University, ²Mass Spectrometry Based Convergence Research Institute, Kyungpook National University, ³BK21 FOUR Community-Based Intelligent Novel Drug Discovery Education Unit, College of Pharmacy and Research Institute of Pharmaceutical Sciences, Kyungpook National University
- P3-60 SREBP-1c Inhibitory Constituents from the Stem Bark of *Albizia julibrissin***
Meiling Xian¹, Mira Oh¹, Hee Jae Kwak¹, Hyun-Jeong Ko², Seung Hyun Kim¹
¹College of Pharmacy, Yonsei Institute of Pharmaceutical Sciences, Yonsei University, ²College of Pharmacy, Kangwon National University

- P3-61 Pyrrole-type alkaloids from the roots of *Angelica dahurica***
Fan-Yu Shi, She-Po Shi
 Modern Research Center for Traditional Chinese Medicine, Beijing University of Chinese Medicine
- P3-62 Studies on the chemical constituents of *Glycosmis craibi* var. *glabra***
Hong-Wei Chen, Peng-Fei Tu, Yong Jiang
 State Key Laboratory of Natural and Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University
- P3-63 Bioactive phthalide trimers with new skeletons from *Angelica sinensis* and their production mechanism**
Jian Zou, Dan Hu, Hao Gao
 Institute of Traditional Chinese Medicine & Natural Products, College of Pharmacy / Guangdong Province Key Laboratory of Pharmacodynamic Constituents of TCM and New Drugs Research, Jinan University
- P3-64 Preparation and in vitro evaluation of compound zhizhuxiang gel plasters for children with functional abdominal pain**
Jiahua Mei, Yunshu Ma, Jiayu Hao, Xiao Fan, Lichun Zha
 Yunnan University of Chinese Medicine
- P3-65 Dicafeoylspermidine derivatives from the fruit of *Lycium barbarum* and their anti-AD and antioxidant activity**
Zheng-Qun Zhou, Dan Hu, Hao Gao
 Institute of Traditional Chinese Medicine and Natural Products, College of Pharmacy / Guangdong Province Key Laboratory of Pharmacodynamic Constituents of TCM and New Drugs Research, Jinan University
- P3-66 Discovery of novel anticancer target-molecular motor based on a molecular probe of *Albizia julibrissin***
Meimei Zhao, Kewu Zeng
 State Key Laboratory of Natural and Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University
- P3-67 Study on the chemical constituents of *Fritillaria unibracteata* Hsiao et K. C. Hsia.**
Shuhui Wang, Peng-Fei Tu
 School of pharmaceutical Sciences, Peking University
- P3-68 Studies on the chemical constituents of *Clausena lenis* Drake**
Si-Si Zhu, Peng-Fei Tu, Yong Jiang
 State Key Laboratory of Natural and Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University
- P3-69 Discovery of the active compounds of *Smilacis Glabrae* Rhizoma by utilizing the relationship between the individual differences in blood drug concentration and the pharmacological effect in rats**
Gegentana, Feng Xu, Ming-Ying Shang, Shao-Qing Cai
 School of Pharmaceutical Sciences, Peking University
- P3-70 Study of the chemical constituents in *Waltheria Indica* L.**
Yiming Hua, Peng-Fei Tu
 Peking University
- P3-71 In vivo Absorbed Lignans in Flaxseed Cake-Fed Dairy Sheep and Their Inhibition on Breast Cancer Cells**
Cong-Cong Zhuang^{1,2}, Chun-Rui Liu^{1,2}, Xu Feng^{1,2}, Hai-Yan Xu^{1,2}, Chao-Mei Ma^{1,2}
¹State Key Laboratory of Reproductive Regulation & Breeding of Grassland Livestock, ²Key Laboratory of Herbage & Endemic Crop Biology of Ministry of Education, School of Life Sciences, Inner Mongolia University
- P3-72 Chemical constituents of *Zanthoxylum nitidum***
Xu Shu, Peng-Fei Tu
 State Key Laboratory of Natural and Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University Health Science Center
- P3-73 Neuroprotection of Aloe-emodin by promotes Nerve neuron Survival and Anti-inflammation in Rat Cerebral Ischemia/Reperfusion**
Jiale Cai, Jiayin Liang, Sikai Zhan, Minghua Xian, Shumei Wang
 Guangdong Pharmaceutical University

- P3-74 The mechanisms involved in the inhibition of tumor induced by carrier-free Lycorine Nanoparticles**
 Haiyang Yu¹, Shiyue Zhou¹, Bo Du³, Yingying Shao¹, Jia Lu¹, Gaoyong Hu¹, Yanming Luo¹, Yuling Qiu², Tao Wang¹
¹State Key Laboratory of Component-based Chinese Medicine, Tianjin University of Traditional Chinese Medicine
²School of Pharmacy, Tianjin Medical University, ³Tianjin Key Laboratory of Biomedical Materials, Biomedical Barriers Research Center, Institute of Biomedical Engineering, Chinese Academy of Medical Sciences & Peking Union Medical College
- P3-75 The mechanism of the effective alkaloid of *Buxus sinica* (Rehder & E. H. Wilson) M. Cheng in regulating the cell cycle arrest and metastasis of HCC**
Haiyang Yu¹, Yingying Shao¹, Shuangshuang Yin¹, Shiyue Zhou¹, Jia Lu¹, Caiyan Liu¹, Jiayan Huang¹, Yuling Qiu², Tao Wang¹
¹State Key Laboratory of Component-based Chinese Medicine, Tianjin University of Traditional Chinese Medicine
²School of Pharmacy, Tianjin Medical University
- P3-76 Protective effect of okra (*Abelmoschus esculentus* L.) in CCl₄-induced liver damage rats**
Xiaozhuo Zhang¹, Qianqian Mao¹, Tingxu Yan²
¹College of Traditional Chinese Materia Medica, Shenyang Pharmaceutical University, ²College of Functional Food and Wine, Shenyang Pharmaceutical University
- P3-77 Study on Compatibility Mechanism of jiuzhuan huangjing pill in alleviating High-fat Diet-induced Metabolic Associated Fatty Liver Disease**
Yan-Qin Li, Li-Ping Yu, Jie Yu, Xing-Xin Yang
 College of Pharmaceutical Science, Yunnan University of Chinese Medicine
- P3-78 Jujuboside B againsts memory deficits and neurotoxicity of mouse model induced by A β ₁₋₄₂**
Qianqian Mao¹, Xiaozhuo Zhang¹, Tingxu Yan²
¹College of Traditional Chinese Materia Medica, Shenyang Pharmaceutical University, ²College of Functional Food and Wine, Shenyang Pharmaceutical University
- P3-79 Shenyan Kangfu Formula Improves DKD via Inflammatory Inhibition and Gut Microbial Regulation**
Qian Chen¹, Dongwen Ren¹, Jiaqi Wu², Haiyang Yu², Xiaopeng Chen¹, Jia Wang³, Yi Zhang², Mengyang Liu¹, Tao Wang¹
¹Tianjin State Key Laboratory of Modern Chinese Medicine, Tianjin University of Traditional Chinese Medicine
²Institute of Traditional Chinese Medicine, Tianjin University of Traditional Chinese Medicine, ³Tianjin Tongrentang Group Co., Ltd.
- P3-80 Resveratrol ameliorates *Toxoplasma gondii*-infection induced hepatocyte injury by modulating HMGB1/TLR4/NF- κ B pathway**
Yunan Lu, Jingmei Lu, Xiang Xu, Lianxun Piao
 Key Laboratory of Natural Medicines of the Changbai Mountain, Ministry of Education, Molecular Medicine Research Center, College of Pharmacy, Yanbian University
- P3-81 Arctigenin nanoparticles ameliorates depression-like behaviors in *Toxoplasma gondii*-infected mice by inhibiting microglial activation and neuroinflammation**
Xiang Xu, Yunan Lu, Guangnan Jin, Xinyu Shen, Lianxun Piao
 Key Laboratory of Natural Medicines of the Changbai Mountain, Ministry of Education, Molecular Medicine Research Center, College of Pharmacy, Yanbian University
- P3-82 Effect of medicinal plants as culture substrates on the production of cordycepin in *Cordyceps militaris***
Ayman Turk¹, Sang Won Yeon¹, Se Hwan Ryu¹, Sung Min Ko^{1,2}, Beom Seok Kim², Bang Yeon Hwang¹, Mi Kyeong Lee¹
¹College of Pharmacy, Chungbuk National University, ²C&G Agricultural Association
- P3-83 Molecular networking-assisted identification and antioxidant evaluation of bioactive compounds from the cinnamon oil extraction waste**
Ya-Ling Yang, Xiao-Tao Zheng, Ying-Shan Ren, Yu-Hong Huang, Xi-Tao Li, Yue-Wei Ge
 School of Traditional Chinese Medicine Guangdong Pharmaceutical University
- P3-84 A network pharmacological study of ACORI TATARINOWII RHIZOMA in the treatment of ischemic stroke**
Qian Zhao, Shao-Qing Cai
 Peking University Health Science Center

- P3-85 Integrated Strategy Drives Direct Infusion -Tandem Mass Spectrometry as An Eligible Tool for Shotgun Pseudo-targeted Metabolomics of Medicinal Plants**
Ke Zhang, Yuelin Song
 Modern Research Center for Traditional Chinese Medicine, School of Chinese Materia Medica, Beijing University of Chinese Medicine
- P3-86 Integrating Constituents Absorbed into Blood, Network Pharmacology, and Quantitative Analysis to Reveal the Active Components in *Rubus chingii* var. *suavissimus* that Regulate Lipid Metabolism Disorder**
Man-Jing Jiang, Wan-Fang Huang, Yong Huang, Pei-Lin Du, Yao-Hua Li, Lan-Lan Fan
 School of Pharmacy, Guangxi University of Chinese Medicine
- P3-87 Bioassay-guided interpretation of antimicrobial chemicals in Kumu, a TCM preparation from *Picrasma quassioides*‘ stem via UHPLC-Ion Trap-Orbitrap Mass Spectrometer combined with fragmentation and retention time calculation**
Haibo Hu^{1,2}, Walter Luyten¹
¹KU Leuven, ²National Engineering Research Center for Modernization of Traditional Chinese Medicine
- P3-88 Chemical Comparison of *Panax notoginseng* from Different Geographical Regions Using UHPLC-QTOF-MS-based metabolomics approach**
Jing Xian, Ming-Ying Shang, Shao-Qing Cai
 School of Pharmaceutical Sciences, Peking University, Health Science Center
- P3-89 Rapid metabolites identification of 5-demethylnobiletin in rats using UFLC/Triple-TOF-MS/MS combined with multiple mass defect filter**
Shuo Yuan, Peng-Fei Tu, Yong Jiang
 State Key Laboratory of Natural and Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University
- P3-90 *In vivo* Absorbed Chemical Constituents and Their Metabolites in Dairy Sheep Fed *Xanthoceras sorbifolia* wood**
Cheng-Bin Shan^{1,2}, Chao-Mei Ma^{1,2}
¹State Key Laboratory of Reproductive Regulation & Breeding of Grassland Livestock, ²Key Laboratory of Herbage & Endemic Crop Biology of Ministry of Education, School of Life Sciences, Inner Mongolia University
- P3-91 Distinct metabonomic signatures of Huangjing pill against glucolipid metabolic disorder**
Yaqin Yang, Jie Yu
 Yunnan University of Chinese Medicine