

---

## PROGRAM

---

### Oral Presentation

1st day, September 7th (Wed)

#### Morning

---

9:10~10:00

Chair: Takaaki Sato (Keio University)

**1 Toward relay synthesis of macrodiolide luminamicin, a potent anti-anaerobic bacterial agent**

(<sup>1</sup> Graduate School of Infection Control Sciences, Kitasato University,

<sup>2</sup> Ōmura Satoshi Memorial Institute, Kitasato University)

Aoi Kimishima <sup>1,2</sup>, Hiroyasu Ando <sup>1</sup>, Shogo Sekikawa <sup>1</sup>, Tohoru Kojima <sup>1</sup>,  
Motoyoshi Ohara <sup>1</sup>, Yoshihiro Watanabe <sup>1,2</sup>, Yuki Inahashi <sup>1,2</sup>, Hirokazu Takada <sup>1</sup>,  
Akihiro Sugawara <sup>1,2</sup>, Takanori Matsumaru <sup>1</sup>, Goh Sennari <sup>1,2</sup>, Yoshihiko Noguchi <sup>1,2</sup>,  
Masato Iwatsuki <sup>1,2</sup>, Tomoyasu Hirose <sup>1,2</sup>, Toshiaki Sunazuka <sup>1,2</sup>

**2 Synthetic Studies of Daphniphyllum Alkaloids**

(<sup>1</sup> Graduate School of Pharmaceutical Sciences, Nagoya University)

Daisuke Nakajima <sup>1</sup>, Yoshitake Nishiyama <sup>1</sup>, Satoshi Yokoshima <sup>1</sup>

10:00~11:15

Chair: Arihiro Iwasaki (Keio University)

**3 Synthesis and evaluation of rocaglamide derivatives targeting cancer with abnormal expression of transcription factor ASCL1**

(<sup>1</sup> Keio University, <sup>2</sup> Chiba University)

Yoshinori Makita <sup>1,2</sup>, Shun Saito <sup>1</sup>, Masami Ishibashi <sup>2</sup>, Midori A. Arai <sup>1</sup>

**4 Cancer therapy by in vivo tagging reaction using ruthenium-complex and derivative of natural peptide.**

(<sup>1</sup> RIKEN, <sup>2</sup> Tokyo Tech)

Kyohei Muguruma <sup>1</sup>, Peni Ahmadi <sup>1</sup>, Kyosuke Imai <sup>2</sup>, Tsung-Che Chang <sup>1</sup>,  
Ambara R. Pradipta <sup>1,2</sup>, Katsunori Tanaka <sup>1,2</sup>

**5 Mechanism of action of korormicin A, a selective inhibitor of *Vibrio cholerae* Na<sup>+</sup>-translocating NADH-quinone oxidoreductase**

(<sup>1</sup> Kyoto University, <sup>2</sup> Osaka University, <sup>3</sup> Rensselaer Polytechnic Institute)

Takahiro Masuya <sup>1</sup>, Moe Ishikawa <sup>1</sup>, Tanaka Hinako <sup>1</sup>, Jun-ichi Kishikawa <sup>2</sup>,  
Blanca Barquera <sup>3</sup>, Yuki Kitazumi <sup>1</sup>, Masatoshi Murai <sup>1</sup>, Hideto Miyoshi <sup>1</sup>

11:20~12:20

Short Presentation

12:20~13:10

Lunch Break

## Afternoon

---

13:10~14:40                      Poster Discussion (P1-1 ~ P1-28)

14:45~15:35                      Chair: Satoshi Ichikawa (Hokkaido University)

**6 Synthetic studies on aculeines, peptide toxins post-translationally modified by long-chain polyamines**

(<sup>1</sup> Yokohama City University, <sup>2</sup> University of Shizuoka, <sup>3</sup> National Institute of Technology, Hakodate College, <sup>4</sup> Kyoto University, <sup>5</sup> Hokkaido University)

Raku Irie<sup>1</sup>, Masayoshi Miyahara<sup>1</sup>, Sara Takaki<sup>1</sup>, Ryoya Wakabayashi<sup>1</sup>,  
Chisato Tani<sup>2</sup>, Satoko Matsunaga<sup>3</sup>, Yumi Irie<sup>4</sup>, Makoto Inai<sup>2</sup>, Hitoshi Ouchi<sup>2</sup>,  
Kazuhiro Irie<sup>4</sup>, Ryuichi Sakai<sup>5</sup>, Toshiyuki Kan<sup>2</sup>, Masato Oikawa<sup>1</sup>

**7 Synthesis, Structure, and Biological Activities of BPPs from *Blarina brevicauda***

(<sup>1</sup> Nagoya Univ., <sup>2</sup> Hokkaido Univ.)

Yusuke Yano<sup>1</sup>, Ryo Fukuoka<sup>1</sup>, Andres D. Maturana<sup>1</sup>, Satoshi D. Ohdachi<sup>2</sup>,  
Masaki Kita<sup>1</sup>

15:35~16:25                      Chair: Kosuke Namba (Tokushima University)

**8 Studies toward the Enantioselective Total Synthesis of Portimine**

(Tohoku University)

Daisuke Sato, Atsushi Umehara, Makoto Sasaki

**9 Total Synthesis of Lobatamides**

(<sup>1</sup> Keio University)

Shona Banjo<sup>1</sup>, Yoshiyuki Nagashima<sup>1</sup>, Yuto Okada<sup>1</sup>, Soichiro Yasui<sup>1</sup>,  
Eiko Nakasuji<sup>1</sup>, Kana Hayashi<sup>1</sup>, Noritaka Chida<sup>1</sup>, Takaaki Sato<sup>1</sup>

16:25~17:15                      Chair: Chihiro Tsukano (Kyoto University)

**10 Divergent total synthesis of monoterpenoid indole alkaloids via strictosidine derivatives**

(<sup>1</sup> Chiba University, <sup>2</sup> Yamaguchi University)

Jukiya Sakamoto<sup>1</sup>, Michinori Sumimoto<sup>2</sup>, Hayato Ishikawa<sup>1</sup>

**11 Synthetic studies on mavacurine alkaloids**

(Tohoku University)

Kosuke Okada, Hirofumi Ueda, Hidetoshi Tokuyama

17:15~18:05

Chair: Masaru Hashimoto (Hiroshima University)

**12 Study on Daphnane and Tiglane Diterpenes isolated from *Stellera chamaejasme* L. and *Wikstroemia retusa* A.Gray as HIV Latency-Reversing Agents**

(Kumamoto University)

Yuki Hitora, Ahmed H. H. El-Desoky, Keisuke Eguchi, Naoki Kishimoto,  
Toshifumi Asano, Hikaru Kato, Shunsuke Kotani, Teruya Nakamura,  
Makoto Nakajima, Shogo Misumi, Sachiko Tsukamoto

**13 Stereostructural Analysis of Flexible Oxidized Lipids and Their Fluorinated Derivatives Using VCD Spectroscopy**

(Hokkaido University)

Tohru Taniguchi, Shu Takimoto, Naka Ida, Nurul Fajry Maulida, Mutmainah,  
Kenji Monde

18:05~18:55

Chair: Yoko Saikawa (Keio University)

**14 Studies on cryptic metabolites induced by bacterial membrane vesicles**

(Faculty of Pharmaceutical Sciences, Hokkaido University)

Aya Yoshimura, Rio Saeki, Ryusuke Nakada, Shota Tomimoto, Kenichi Matsuda,  
Toshiyuki Wakimoto

**15 Sponge-derived Lectin Reveals Novel Activation Mechanism of Cytokine Receptors**

(<sup>1</sup> Hokkaido University, <sup>2</sup> Tohoku University, <sup>3</sup> Juntendo University, <sup>4</sup> Northwestern University, <sup>5</sup> Kitasato University)

Hiromi Watari <sup>1</sup>, Hiromu Kageyama <sup>2</sup>, Nami Masubuchi <sup>3</sup>, Pamela J. Focia <sup>4</sup>,  
Takashi Matsui <sup>5</sup>, Yoshio Koderu <sup>5</sup>, Marito Araki <sup>3</sup>, Yoshikazu Tanaka <sup>2</sup>, Ryuichi Sakai <sup>1</sup>

## 2nd day, September 8th (Thu)

### Morning

---

9:10~10:00                      Chair: Hayato Ishikawa (Chiba University)

**16 Total Syntheses of Guaianolide-type sesquiterpene lactones**

(<sup>1</sup> Grad. Sch. Pharm. Sci., Tokushima Univ., <sup>2</sup> Pharm. Sci., Tokushima Univ., <sup>3</sup> Pharm. Sci., Tokushima Bunri Univ.)

Yuki Kimura<sup>1</sup>, Eisaku Ohashi<sup>1</sup>, Sangita Karanjit<sup>1</sup>, Takashi Taniguchi<sup>2</sup>,  
Atsushi Nakayama<sup>1</sup>, Hiroshi Imagawa<sup>3</sup>, Ryota Sato<sup>1</sup>, Kosuke Namba<sup>1</sup>

**17 Unified total syntheses of cephalotane-type norditerpenoids**

(UC Berkeley)

Goh Sennari, Maximilian Haider, Stefan Wiesler, Kristen Gardner, Alina Eggert,  
Richmond Sarpong

10:00~10:50                      Chair: Shunji Takahashi (RIKEN CSRS)

**18 Azlactone-Forming Enzyme Involved in the Production of Fungal Benzofuran Compounds.**

(University of Shizuoka)

Shinji Kishimoto, Ayumi Minami, Yuya Matsubara, Mika Takeshima, Shogo Watanabe,  
Kenji Watanabe

**19 Biosynthetic mechanisms of the hydroxamic acid group of trichostatin A.**

(<sup>1</sup> University of Tokyo, <sup>2</sup> JSPS Research Fellow, <sup>3</sup> AIST)

Ryuhei Nagata<sup>1,2</sup>, Kei Kudo<sup>1</sup>, Taro Ozaki<sup>1</sup>, Kazuo Shin-ya<sup>3</sup>, Makoto Nishiyama<sup>1</sup>,  
Tomohisa Kuzuyama<sup>1</sup>

10:55~11:55                      Short Presentation

11:55~12:45                      Lunch Break

## Afternoon

---

12:45~14:15                      Poster Discussion (P2-1 ~ P2-28)

14:20~14:25                      Advance Notice

14:25~15:15                      Chair: Masaki Kita (Nagoya University)

**20 Fungal toxin fusicoccin enhances photosynthesis and plant growth by promoting stomatal opening**

(<sup>1</sup> Academic Assembly, Institute of Agriculture, Shinshu University, <sup>2</sup> Graduate School of Science, Nagoya University)

Hironaru Kiriya<sup>1</sup>, Satoru Kinoshita<sup>2</sup>, Yuki Hayashi<sup>2</sup>, Shigemitsu Kasuga<sup>1</sup>, Toshinori Kinoshita<sup>2</sup>, Hiroki Irieda<sup>1</sup>, Junko Ohkanda<sup>1</sup>

**21 Anti-GA activity of  $\alpha$ -(7Z,10Z,13Z)-hexadeca-7,10,13-trienoic acid monoglyceride via down regulation of AtKO and up regulation of AtGA2ox transcriptional levels leading low endogenous amounts of GAs in *Arabidopsis thaliana***

(<sup>1</sup> Hokkaido University, <sup>2</sup> Research Institute of Innovative Technology for the Earth, <sup>3</sup> RIKEN Center for Sustainable Resource Science)

Tsuyoshi Ogihara<sup>1</sup>, Shunpei Shikama<sup>1</sup>, Akihisa Ishii<sup>1</sup>, Syotaro Hirota<sup>1</sup>, Takafumi Shimizu<sup>2</sup>, Mitsunori Seo<sup>3</sup>, Naoki Kitaoka<sup>1</sup>, Kaiken Fujino<sup>1</sup>, Yasunori Koda<sup>1</sup>, Hideyuki Matsuura<sup>1</sup>

15:15~16:05                      Chair: Toshiyuki Wakimoto (Hokkaido University)

**22 Structure and mechanism of ion channel complex formed by amphotericin B in lipid membrane**

(<sup>1</sup> Graduate School of Science, Osaka University, <sup>2</sup> Graduate School of Engineering, Nagoya University, <sup>3</sup> Faculty of Medicine, Oita University, <sup>4</sup> Graduate School of Science, Kyushu University, <sup>5</sup> Research Institute for Interdisciplinary Science, Okayama University)

Yuichi Umegawa<sup>1</sup>, Tomoya Yamamoto<sup>1</sup>, Mayank Dixit<sup>2</sup>, Yasuo Nakagawa<sup>1</sup>, Hiroshi Tsuchikawa<sup>1,3</sup>, Shinya Hanashima<sup>1</sup>, Nobuaki Matsumori<sup>1,4</sup>, Wataru Shinoda<sup>2,5</sup>, Michio Murata<sup>1</sup>

**23 Sneeze-inducing protein from the jellyfish, *Chrysaora pacifica***

(<sup>1</sup> Keio University, <sup>2</sup> Nagoya University, <sup>3</sup> Tokyo University of Agriculture and Technology)

Yuta Yamauchi<sup>1</sup>, Yuri Shindo<sup>1</sup>, Yuma Akiyoshi<sup>1</sup>, Daiki Inoue<sup>1</sup>, Makiko Akinou<sup>1</sup>, Keiko Kuwata<sup>2</sup>, Sho Miyazaki<sup>1,3</sup>, Masaya Nakata<sup>1</sup>, Yoko Saikawa<sup>1</sup>

16:05~16:55                      Chair: Teigo Asai (Tohoku University)

**24 Biosynthetic study of macrolactam antibiotic hitachimycin**

(<sup>1</sup> Tokyo Institute of Technology, <sup>2</sup> University of Tsukuba)

Akimasa Miyanaga<sup>1</sup>, Sotaro Takahashi<sup>1</sup>, Koichi Kawamura<sup>1</sup>, Shohei Kurihara<sup>1</sup>,  
Yuichiro Nakazawa<sup>1</sup>, Naeko Iwai<sup>2</sup>, Yoko Nagumo<sup>2</sup>, Takeo Usui<sup>2</sup>, Fumitaka Kudo<sup>1</sup>,  
Tadashi Eguchi<sup>1</sup>

**25 Characterization of enzymes catalyzing the stereodivergent nitrocyclopropane formation**

(<sup>1</sup> The University of Tokyo)

Richiro Ushimaru<sup>1</sup>, Shotaro Shimo<sup>1</sup>, Takahiro Mori<sup>1</sup>, Ikuro Abe<sup>1</sup>

16:55~17:45                      Chair: Go Hirai (Kyushu University)

**26 Total Synthesis of JBIR-141 that Contains Oxazoline, *N*-Nitrosohydroxylamine, and 3-Acyltetraminic Acid Moieties**

(<sup>1</sup> Tohoku University, <sup>2</sup> University of Tsukuba, <sup>3</sup> Kumamoto University, <sup>4</sup> JBIC, <sup>5</sup> AIST)

Kotaro Yasoshima<sup>1</sup>, Masahito Yoshida<sup>2</sup>, Teppei Kawahara<sup>3</sup>, Takuya Hashimoto<sup>4</sup>,  
Kazuo Shin-ya<sup>5</sup>, Takayuki Doi<sup>1</sup>

**27 Total Synthesis of Euonymine and Euonyminol Octaacetate**

(The University of Tokyo)

Toshiya Nagai, Yinghua Wang, Itsuki Watanabe, Koichi Hagiwara, Masayuki Inoue

19:00~21:00                      Award Ceremony & Symposium Mixer

### 3rd day, September 9th (Fri)

#### Morning

---

9:10~10:00

Chair: Takayoshi Awakawa (The University of Tokyo)

**28 Investigation of novel peptide epimerases to introduce D-amino acid residues into peptides**

(<sup>1</sup> Graduate School of Chemical Sciences and Engineering, Hokkaido University,

<sup>2</sup> Graduate School of Engineering, Hokkaido University)

Yasushi Ogasawara<sup>1</sup>, Zhi Feng<sup>2</sup>, Wanlu Xiao<sup>2</sup>, Mayuko Shigematsu<sup>2</sup>, Shota Sato<sup>2</sup>,  
Hinata Kato<sup>2</sup>, Tohru Dairi<sup>1</sup>

**29 Fungal flavonoid biosynthesis by an alternative chalcone synthase**

(Graduate School of Pharmaceutical Sciences, Tohoku University)

Sho Furumura, Yohei Morishita, Kento Tsukada, Akihiro Sugawara, Taro Ozaki,  
Teigo Asai

10:00~10:50

Chair: Fumitaka Kudo (Tokyo Institute of Technology)

**30 Isotope-guided metabolomics reveals polar-functionalized fatty-acylated ribosomally synthesized and posttranslationally modified peptides (RiPPs) from *Streptomyces***  
(The University of Tokyo)

Shumpei Asamizu, Shotaro Hoshino, Shinta Ijichi, Hansaem Jo, Hiroyasu Onaka

**31 Characterization of a novel C-geranyltransferase LimF and its application for artificial macrocyclic peptide synthesis**

(<sup>1</sup> Univ. Tokyo, <sup>2</sup> Yokohama City Univ., <sup>3</sup> Kanagawa Univ.)

Yuchen Zhang<sup>1</sup>, Keisuke Hamada<sup>2</sup>, Dinh Thanh Nguyen<sup>1</sup>, Sumika Inoue<sup>1</sup>,  
Masayuki Satake<sup>1</sup>, Masahiro Okada<sup>3</sup>, Toru Sengoku<sup>2</sup>, Yuki Goto<sup>1</sup>, Hiroaki Suga<sup>1</sup>

10:50~12:05

Chair: Midori Arai (Keio University)

**32 Threonyldiaminobutyric Acid Scanning of Polymyxin to Overcome Polymyxin Resistance**

(<sup>1</sup> Faculty of Pharmaceutical Sciences, Hokkaido University, <sup>2</sup> Global Station for Biosurfaces and Drug Discovery, Global Institution for Collaborative Research and Education, <sup>3</sup> Faculty of Veterinary Medicine and Graduate School of Infectious Diseases, Hokkaido University, <sup>4</sup> Sapporo Medical University)

Rintaro Kaguchi<sup>1</sup>, Akira Katsuyama<sup>1,2</sup>, Toyotaka Sato<sup>3</sup>, Motohiro Horiuchi<sup>3</sup>, Sin-ichi Yokota<sup>4</sup>, Satoshi Ichikawa<sup>1,2</sup>

**33 Isolation, Structure Determination, Total Synthesis and Biological Activity of Beru'amide, a Scarce Polyketide**

(<sup>1</sup> Keio University, <sup>2</sup> Tokyo University)

Raimu Taguchi<sup>1</sup>, Arihiro Iwasaki<sup>1</sup>, Akira Ebihara<sup>1</sup>, Ghulam Jeelani<sup>2</sup>, Tomoyoshi Nozaki<sup>2</sup>, Kiyotake Suenaga<sup>1</sup>

**34 Controlled lipid  $\beta$ -oxidation and carnitine biosynthesis by a vitamin D metabolite**

(<sup>1</sup> ICR, Kyoto University, <sup>2</sup> Graduate School of Technology, Tokyo University of Agriculture and Technology, <sup>3</sup> Faculty of Pharmaceutical Sciences, Teikyo University, <sup>4</sup> Faculty of Pharmaceutical Sciences, Tokyo University of Science, <sup>5</sup> RIKEN Center for Sustainable Resource Science, <sup>6</sup> Department of Gastroenterology, the University of Tokyo, <sup>7</sup> iCeMS, Kyoto University)

Yasushi Takemoto<sup>1</sup>, Aileen Mendoza<sup>1</sup>, Kevin Tan Cruzado<sup>1</sup>, Shadi Sedghi Masoud<sup>2</sup>, Akiko Nagata<sup>2</sup>, Ajcharapan Tantipanjanorn<sup>1</sup>, Satoshi Okuda<sup>1</sup>, Fumihiro Kawagoe<sup>3</sup>, Ryota Sakamoto<sup>2</sup>, Minami Odagi<sup>2</sup>, Sayuri Mototani<sup>3</sup>, Moeka Togashi<sup>4</sup>, Makoto Kawatani<sup>5</sup>, Harumi Aono<sup>5</sup>, Hiroyuki Osada<sup>5</sup>, Hayato Nakagawa<sup>6</sup>, Tatsuya Higashi<sup>4</sup>, Atsushi Kittaka<sup>3</sup>, Kazuo Nagasawa<sup>2</sup>, Motonari Uesugi<sup>1,7</sup>

12:05~13:00

Lunch Break

**Afternoon**

---

13:00~13:50

Chair: Hiroki Oguri (The University of Tokyo)

**35 Asymmetric Total Synthesis and Structure Revision of Lancilactone C, an Anti-HIV Triterpenoid**

(<sup>1</sup> Kyoto University)

Chihiro Tsukano<sup>1</sup>, Hidetaka Kuroiwa<sup>1</sup>, Soichiro Suzuki<sup>1</sup>, Kazuhiro Irie<sup>1</sup>

**36 Total synthesis of amycolamycin, a potent broad-spectrum antibiotic**

(Graduate School of Agricultural Science, Tohoku University)

Yasuhiro Meguro, Junya Ito, Kiyotaka Nakagawa, Shigefumi Kuwahara



13:50~14:40

Chair: Masato Oikawa (Yokohama City University)

**37 Study of *N*-glycan from hyperthermophilic archaeon, *Thermococcus kodakarensis*: isolation, synthesis, functional analysis**

(<sup>1</sup> Osaka University, <sup>2</sup> Project Research Center for Fundamental Sciences, Osaka University, <sup>3</sup> University of Napoli Federico II, <sup>4</sup> Kyoto University)

Kohtaro Hirao<sup>1</sup>, Yoshiyuki Manabe<sup>1,2</sup>, Immacolata Speciale<sup>3</sup>, Anna Notaro<sup>3</sup>, Takaaki Sato<sup>4</sup>, Haruyuki Atomi<sup>4</sup>, Antonio Molinaro<sup>3</sup>, Cristina De Castro<sup>3</sup>, Koichi Fukase<sup>1,2</sup>

**38 Chemical synthesis-driven identification of a scarce anticancer microbial metabolite presaccharothriolide Z**

(Kyoto University)

Takefumi Kuranaga, Miho Tamura, Hiroaki Ikeda, Sakahiro Terada, Yusuke Nakagawa, Hideaki Kakeya

14:40~15:30

Chair: Haruhisa Kikuchi (Keio University)

**39 Design, synthesis, and chiroptical properties of figure-eight macrocycles composed of natural product scaffolds**

(<sup>1</sup> The University of Tokyo, <sup>2</sup> Tokyo University of Science, <sup>3</sup> Tokyo University of Agriculture and Technology)

Tasuku Honda<sup>1</sup>, Daiji Ogata<sup>2</sup>, Takahiro Muraoka<sup>3</sup>, Junpei Yuasa<sup>2</sup>, Hiroki Ogruri<sup>1</sup>

**40 Establishment of “Ring-Size-Divergent” Synthetic Method: Total Synthesis, Structural Revision, Absolute Configuration, and Biological Activity of Terpenoids Having Five, Six, and Seven-Membered Ether Rings**

(<sup>1</sup> Graduate School of Science, Osaka Metropolitan University, <sup>2</sup> Faculty of Fisheries, Kagoshima University)

Keisuke Nishikawa<sup>1</sup>, Tomonori Teranishi<sup>1</sup>, Mikishiro Hayashi<sup>1</sup>, Toshiki Niwa<sup>1</sup>, Kengo Morita<sup>1</sup>, Subaru Hashimoto<sup>1</sup>, Momochika Kumagai<sup>1,2</sup>, Yoshiki Morimoto<sup>1</sup>

15:30~16:45

Chair: Satoshi Yokoshima (Nagoya University)

**41 A Collective Synthesis of Aplisiatoxin and Oscillatoxin Analogues**

(<sup>1</sup> Nagoya University, <sup>2</sup> Toyama Prefectural University)

Kohei Hada<sup>1</sup>, Yusuke Araki<sup>1</sup>, Yoshihiko Nokura<sup>1</sup>, Daisuke Urabe<sup>2</sup>, Toshio Nishikawa<sup>1</sup>

**42 Synthetic study on Domoic acid**

(<sup>1</sup> University of Shizuoka, <sup>2</sup> Tokai University)

Shigeru Nishizawa<sup>1</sup>, Takuma Ohnishi<sup>1</sup>, Yoshitaka Matsumura<sup>1</sup>, Yu Oyagi<sup>1</sup>, Shingo Sasaki<sup>1</sup>, Hiroto Suzuki<sup>1</sup>, Hitoshi Ouchi<sup>1</sup>, Tomohiro Asakawa<sup>2</sup>, Makoto Inai<sup>1</sup>, Fumihiko Yoshimura<sup>1</sup>, Toshiyuki Kan<sup>1</sup>

**43 Total synthesis of scytonemin, an anti-inflammatory UV absorber**

(Graduate school of advanced science and engineering, Waseda University)

Yutaro Udagawa, Seijiro Hosokawa

## Poster Presentation

1st day, September 7th (Wed)

- P1-1 Phytochemical, Antioxidant, and Silver Nanoparticles Synthesis Studies on *Odontonema strictum***  
(<sup>1</sup> Sophia Univ)  
Lokadi Pierre Luhata<sup>1</sup>, Toyonobu Usuki<sup>1</sup>
- P1-2 A high-sensitive insecticidal activity screen system using silkworm first instar larvae enables efficient pesticide seed compound search**  
(<sup>1</sup> Graduate School of Infection Control Sciences, Kitasato University, <sup>2</sup> School of Science, Kitasato University, <sup>3</sup> Ōmura Satoshi Memorial Institute, Kitasato University)  
Naozumi Kondo<sup>1</sup>, Mai Sato<sup>2</sup>, Kazunari Sakai<sup>3</sup>, Aoi Kimishima<sup>1,3</sup>, Hidetaka Yuge<sup>2</sup>, Yoshihiro Watanabe<sup>1,3</sup>, Masato Iwatsuki<sup>1,3</sup>, Yukihiro Asami<sup>1,3</sup>
- P1-3 Effect of rice-derived glucosylceramides and free ceramides on epidermal hydration and melanogenesis**  
(<sup>1</sup> Pharm. Res. Technol. Inst., Kindai Univ., <sup>2</sup> Oryza Oil & Fat Chemical Co., Ltd.)  
Shogo Takeda<sup>1,2</sup>, Kenchi Miyasaka<sup>2</sup>, Akari Yoneda<sup>2</sup>, Sarita Shrestha<sup>1</sup>, Yoshiaki Manse<sup>1</sup>, Hiroshi Shimoda<sup>2</sup>, Toshio Morikawa<sup>1</sup>
- P1-4 Structural basis for the complex formed by baicalin and berberine**  
(Faculty of Pharmacy, Keio University)  
Yoshinori Uekusa, Chiharu Tanioka, Chihiro Iida, Riina Tsutsumi, Takehiro Nishimura, Fumiyuki Kiuchi, Haruhisa Kikuchi
- P1-5 Preparation of chemical probes of marine cyclic peptides kapakahines and analysis of their modes of actions.**  
(Faculty of Science and Engineering, Waseda University)  
Rie Kamihira, Daisuke Arai, Yoichi Nakao
- P1-6 Asymmetric total syntheses of preussomrins: stereospecific photoredox reaction of naphthoquinone via 1,6-hydrogen shift**  
(<sup>1</sup> Tokyo Institute of Technology, Department of Chemistry, <sup>2</sup> Tokyo Institute of Technology, Institute of Innovative Research)  
Yoshio Ando<sup>1</sup>, Daichi Ogawa<sup>1</sup>, Ken Ohmori<sup>1</sup>, Keisuke Suzuki<sup>2</sup>
- P1-7 Synthetic Studies on Polycyclic Marine Natural Product, Bisgersolanolide**  
(Grad. Sch. Biomed. Sci., Nagasaki Univ.)  
Norihiko Kawasaki, Keita Komine, Hayato Fukuda, Jun Ishihara
- P1-8 Total Synthesis of (–)-Lamellodysidine A**  
(Hoshi University)  
Shogo Kamo, Hitomi Kurosawa, Akinobu Matsuzawa, Kazuyuki Sugita
- P1-9 Synthetic studies of hyphenrone A**  
(Department of Applied Chemistry, Keio University)  
Takeshi Kobayashi, Yusuke Yokoya, Manami Takenaka, Akihiro Ogura, Ken-ichi Takao

- P1-10 Stereoselective Syntheses of trans-Anhydromevalonyl Group-Containing Natural Products**  
(<sup>1</sup> Osaka City University)  
Atsushi Nakayama<sup>1</sup>, Yoko Yasuno<sup>1</sup>, Yuki Yamamoto<sup>1</sup>, Hironori Okamura<sup>1</sup>, Tetsuro Shinada<sup>1</sup>
- P1-11 Total synthesis of zephycarinatines C and D via photocatalytic spirocyclization**  
(Kyoto University)  
Shinsuke Inuki, Haruka Takeuchi, Kohei Nakagawa, Takaaki Kawabe, Atsuhiko Ichimura, Shinya Oishi, Hiroaki Ohno
- P1-12 Total Synthesis, Structure Determination and Biological Evaluation of Antibiotic Cyclopeptide Pargamicin A**  
(<sup>1</sup> Degree Programs in Pure and Applied Sciences, University of Tsukuba, <sup>2</sup> Institute of Microbial Chemistry)  
Tetsuya Inaba<sup>1</sup>, Yuko Shibuya<sup>2</sup>, Masayuki Igarashi<sup>2</sup>, Masahito Yoshida<sup>1</sup>, Hideo Kigoshi<sup>1</sup>
- P1-13 An efficient synthesis of N-beta-GlcNAc-Asn and unprecedented synthesis of N-alpha-GlcNAc-Asn**  
(<sup>1</sup> Kyoto Pharmaceutical University, <sup>2</sup> Kyoto University)  
Yusuke Kobayashi<sup>1</sup>, Masako Yamanishi<sup>2</sup>, Yuya Nakatsuji<sup>2</sup>, Hiroshi Naka<sup>2</sup>, Yoshiji Takemoto<sup>2</sup>
- P1-14 Synthetic studies toward the total synthesis of Amphirionin-5**  
(<sup>1</sup> The University of Tokyo, <sup>2</sup> Tohoku University)  
Yusuke Ogura<sup>1</sup>, Tadafumi Fujita<sup>1</sup>, Syuichirou Aniya<sup>1</sup>, Daisuke Abe<sup>2</sup>, Shigefumi Kuwahara<sup>2</sup>, Hirosato Takikawa<sup>1</sup>
- P1-15 Development of an efficient synthetic method for C3-position modified sialoglycans and their sialidase inhibitory activity**  
(Graduate School of Pharmaceutical Sciences, Kyushu University)  
Keiya Uezono, Risa Maeda, Hiroaki Matoba, Makoto Yoritake, Go Hirai
- P1-16 Development of  $\sigma$  bond cleavage reactions enabled by zirconocene and photoredox catalysis**  
(Waseda University)  
Eisuke Ota, Kazuhiro Aida, Toshimasa Okita, Marina Hirao, Keisuke Tanaka, Aiko Funabashi, Junichiro Yamaguchi
- P1-17 MHAT initiated transannular redox cyclization of vinylsilane enables concise syntheses of habiterpenol and 2,3-*epi*-habiterpenol**  
(<sup>1</sup> Kitasato University School of Pharmacy)  
Masaki Ohtawa<sup>1</sup>, Haruki Taguchi<sup>1</sup>, Mayuko Kawaguchi<sup>1</sup>, Tohru Nagamitsu<sup>1</sup>
- P1-18 A total synthesis of huperzine A starting from adamantane**  
(Graduate School of Pharmaceutical Sciences, Tohoku University)  
Hiroyuki Yamakoshi, Fumiya Ikarashi, Kenta Gonokami, Masatoshi Shibuya, Naoki Kanoh, Yoshiharu Iwabuchi

- P1-19 Structures and Cytotoxicity of Novel Steroidal Compounds from the Seeds of *Digitalis purpurea***  
(Tokyo University of Pharmacy and Life Sciences)  
Yukiko Matsuo, Minpei Kuroda, Yoshihiro Mimaki
- P1-20 ACCeL: a Program for Multiconformational Calculations and its Application to the Structural Analysis of Novel Natural Products**  
(<sup>1</sup> Department of Biotechnology, Toyama Prefectural University, <sup>2</sup> Biotechnology Research Center, Toyama Prefectural University)  
Keisuke Fukaya <sup>1,2</sup>, Zhiwei Zhang <sup>1</sup>, Chang Liu <sup>1</sup>, Yasuhiro Igarashi <sup>1,2</sup>, Daisuke Urabe <sup>1,2</sup>
- P1-21 Proof of the existence of novel hericenones in Yamabushitake (Lion's mane, *Hericium erinaceus*) in collaboration with synthetic chemistry**  
(<sup>1</sup> Shizuoka University, <sup>2</sup> Utsunomiya University, <sup>3</sup> Osaka Institute of Technology)  
Junhong Wang <sup>1</sup>, Jing Wu <sup>1</sup>, Xiaonan Xie <sup>2</sup>, Shoji Kobayashi <sup>3</sup>, Ryo Yamaguchi <sup>3</sup>, Jae-Hoon Choi <sup>1</sup>, Hirofumi Hirai <sup>1</sup>, Hirokazu Kawagishi <sup>1</sup>
- P1-22 Heterologous production of a new tricyclic peptide marinomonasin**  
(<sup>1</sup> Shizuoka Univ., <sup>2</sup> NARO)  
Issara Kaweevan <sup>1</sup>, Hiroyuki Nakagawa <sup>2</sup>, Shinya Kodani <sup>1</sup>
- P1-23 Radical SAM enzymes that catalyze cyclophane formation on Tyr and His-containing motifs in RiPP biosynthesis**  
(<sup>1</sup> Natl. Univ. Singapore, <sup>2</sup> Chiba Univ., <sup>3</sup> Ho Chi Minh City Univ. Technol., <sup>4</sup> Univ. Tronto, <sup>5</sup> A\*STAR)  
Ryosuke Sugiyama <sup>1,2</sup>, Angelica Faith L. Suarez <sup>1</sup>, Yohei Morishita <sup>1</sup>, Thi Quynh Ngoc Nguyen <sup>1,3</sup>, Yi Wei Tooh <sup>1</sup>, Muhammad Nur Hadi Bin Roslan <sup>1</sup>, Justin Lo Choy <sup>4</sup>, Qi Su <sup>1</sup>, Wei Yang Goh <sup>1</sup>, Gregory Adrian Gunawan <sup>1,5</sup>, Fong Tian Wong <sup>5</sup>, Brandon I. Morinaka <sup>1</sup>
- P1-24 Biogenesis and Functionalities of Dictyoquinone, Differentiation Inducing Factor of Slime Mold *Dictyostelium discoideum***  
(<sup>1</sup> Grad. Sch. Pharm., Meijo Univ., <sup>2</sup> Fac. Pharm., Meijo Univ., <sup>3</sup> Fac. Sci. Tech., Sophia Univ., <sup>4</sup> Grad. Sch. Kyoto Univ., <sup>5</sup> Kansai Med. Univ.)  
Salma Zulqaida <sup>1</sup>, Waki Hayase <sup>2</sup>, Tomoki Kamegai <sup>2</sup>, Reina Honda <sup>3</sup>, Tamao Saito <sup>3</sup>, Kei Inouye <sup>4</sup>, Akiko A Oohata <sup>5</sup>, Yoshiaki Takaya <sup>1,2</sup>
- P1-25 Search for plants natural products with BMI1 promoter inhibitory activity**  
(<sup>1</sup> Chiba Univ., <sup>2</sup> Dhaka Univ., <sup>3</sup> Khulna Univ.)  
Kazuki Fujii <sup>1</sup>, Yasumasa Hara <sup>1</sup>, Firoj Ahmed <sup>2</sup>, Samir K. Sadhu <sup>3</sup>, Masami Ishibashi <sup>1</sup>
- P1-26 Exploring of lipid-soluble vitamin-based compounds that inhibit the growth of the new coronavirus SARS-CoV-2.**  
(<sup>1</sup> Graduate School of Shibaura Institute of Technology, <sup>2</sup> Center for Advanced Science Research and Promotion, Kagoshima University)  
Taiki Homma <sup>1</sup>, Mika Okamoto <sup>2</sup>, Masanori Baba <sup>2</sup>, Yoshitomo Suhara <sup>1</sup>

**P1-27 Nostosin and Spiroidesin Analogues from the Cyanobacterium *Dolichospermum* sp. (NIES-1697)**

(<sup>1</sup> Faculty of Environmental Earth Science, Hokkaido University, <sup>2</sup> Graduate School of Environmental Science, Hokkaido University)

Jakia Jerin Mehjabin<sup>1</sup>, Chin-Soon Phan<sup>1</sup>, Andrea Roxanne J. Anas<sup>2</sup>, Tatsufumi Okino<sup>1,2</sup>

**P1-28 Chemical conversion of dimeric pyranonaphthoquinone pigments from aphids**

(Faculty of Pharmaceutical Sciences, Tokushima Bunri University)

Chiharu Ozakai, Kei Kitamura, Mitsuyo Horikawa, Akari Imamura, Tatsuro Yoneyama, Akemi Umeyama, Masaaki Noji, Tetsuto Tsunoda, Hiroto Kaku

## 2nd day, September 8th (Thu)

### **P2-1 Molecular networking analysis of Korean bee pollens and their COMT inhibitory activities**

(<sup>1</sup> Graduate School of Integrated Pharmaceutical and Nutritional Sciences, University of Shizuoka, <sup>2</sup> School of Food and Nutritional Sciences, University of Shizuoka, <sup>3</sup> Department of Food Science and Nutrition, Dong-A University)  
Ryo Miyata<sup>1</sup>, Sara Hoshino<sup>2</sup>, Mok-Ryeon Ahn<sup>3</sup>, Shigenori Kumazawa<sup>1,2</sup>

### **P2-2 Luminescence of Cypridina luciferin with human alpha 1-acid glycoprotein (AIST BPRI)**

Shusei Kanie, Yasuo Mitani

### **P2-3 Molecular mechanism of target receptor selectivity of paraherquamide A**

(<sup>1</sup> Graduate School of Agriculture, Kindai University, <sup>2</sup> University College London)  
Shuya Otsubo, Makoto Ihara, Sattelle David B., Kazuhiko Matsuda

### **P2-4 Development of less aggregative derivatives of pradimicin toward its glycobiological applications**

(<sup>1</sup> Nagoya University, <sup>2</sup> Tokyo Institute of Technology, <sup>3</sup> Toyama Prefectural University, <sup>4</sup> Osaka University, <sup>5</sup> RIKEN, <sup>6</sup> iGCORE)  
Koshi Onda<sup>1</sup>, Yuzuka Oya<sup>1</sup>, Makoto Ojika<sup>1</sup>, Ken Ohmori<sup>2</sup>, Yasuhiro Igarashi<sup>3</sup>, Yukishige Ito<sup>4,5</sup>, Yu Nakagawa<sup>1,5,6</sup>

### **P2-5 Preparation of domoic acid and kainic acid analogues using the cyclases, and evaluation of their toxicities**

(<sup>1</sup> Graduate School of Agricultural Science, Tohoku University, <sup>2</sup> Fukushima College, <sup>3</sup> United Graduate School of Agricultural Science, Kagoshima University, <sup>4</sup> Frontier Research Institute for Interdisciplinary Sciences, Tohoku University)  
Motomi Yamada<sup>1</sup>, Yukari Maeno<sup>1</sup>, Yuichi Kotaki<sup>2</sup>, Ryuta Terada<sup>3</sup>, Masafumi Hidaka<sup>1</sup>, Yuta Kudo<sup>1,4</sup>, Yuko Cho<sup>1</sup>, Keiichi Konoki<sup>1</sup>, Mari Yotsu-Yamashita<sup>1</sup>

### **P2-6 Total synthesis of indole *S*, *O*-bisdesmoside, calanthoside B (Kindai University)**

Katsuki Takashima, Akane Asai, Mina Ashidate, Fumihiro Ishikawa, Genzoh Tanabe

### **P2-7 Synthetic studies on rubioncolin B and its related compounds**

(<sup>1</sup> Grad. Sch. Pharm. Sci., Osaka Univ.)  
Takaaki Aijima<sup>1</sup>, Shuji Akai<sup>1</sup>, Yoshinari Sawama<sup>1</sup>

### **P2-8 Synthetic Study of tetrapetalone A by Nucleophilic Aromatic Substitution (<sup>1</sup> Faculty of Pharmacy, Keio University)**

Hiroki Deguchi<sup>1</sup>, Kengo Hanaya<sup>1</sup>, Takeshi Sugai<sup>1</sup>, Shuhei Higashibayashi<sup>1</sup>

### **P2-9 Synthetic Studies of the Macrocyclic Lactam Structure in Zetekitoxin AB**

(<sup>1</sup> Graduate School of Engineering, Tokyo University of Agriculture and Technology, <sup>2</sup> Graduate School of Agriculture Science, Tohoku University)  
Hayate Ishizuka<sup>1</sup>, Keiichi Konoki<sup>2</sup>, Mari Yamashita<sup>2</sup>, Kazuo Nagasawa<sup>1</sup>

- P2-10 Synthetic Studies of Ansellones and Evaluation of Reactivating HIV Latent Infection**  
(<sup>1</sup> Osaka University, <sup>2</sup> Kumamoto University)  
Mizushi Yanagihara<sup>1</sup>, Kanae Nakahara<sup>1</sup>, Naoki Kishimoto<sup>2</sup>, Towa Abe<sup>2</sup>, Shogo Misumi<sup>2</sup>, Makoto Sako<sup>1</sup>, Mitsuhiro Arisawa<sup>1</sup>, Kenichi Murai<sup>1</sup>
- P2-11 Synthetic study on Mytilipin C**  
(<sup>1</sup> Hokkaido University, <sup>2</sup> Universitas Islam Indonesia)  
Taiki Umezawa<sup>1</sup>, Nurcahyo Iman Prakoso<sup>1,2</sup>, Koichi Tsuji<sup>1</sup>, Yosuke Ogura<sup>1</sup>, Takumi Sato<sup>1</sup>, Fuyuhiko Matsuda<sup>1</sup>
- P2-12 Asymmetric total synthesis of nesteretal A using sequential acetal cyclization reaction**  
(<sup>1</sup> Tokyo University of Pharmacy and Life Sciences)  
Yuichiro Kawamoto<sup>1</sup>, Hideki Kitsukawa<sup>1</sup>, Toyoharu Kobayashi<sup>1</sup>, Hisanaka Ito<sup>1</sup>
- P2-13 Phosphazene base-catalyzed hydroamination of aminoalkenes for the construction of isoindoline scaffolds: Application to the total synthesis of aristocularine**  
(University of Toyama)  
Junpei Matsuoka, Maki Terashita, Tomoka Takatori, Yumika Fujimoto, Naoya Yamashita, Akari Miyawaki, Kiyoshi Tomioka, Yasutomo Yamamoto
- P2-14 Total Synthesis of Isoflavone Natural Products and Discovery of Pancreatic Cancer Drug Candidate Compounds**  
(<sup>1</sup> Faculty of Engineering, University of Toyama, <sup>2</sup> Institute of Natural Medicine, University of Toyama)  
Takuya Okada<sup>1</sup>, Nguyen Ngoc Thanh Luan<sup>1</sup>, Ruka Arata<sup>1</sup>, Suresh Awale<sup>2</sup>, Naoki Toyooka<sup>1</sup>
- P2-15 Synthetic Studies on Urauchimycin D and Antimycin B**  
(Department of Chemistry, Graduate School of Science, Osaka Metropolitan University)  
Miyu Morii, Yuka Tanaka, Tetsuya Satoh, Yoshinosuke Usuki
- P2-16 Total synthesis and analog synthesis of 3-(phenethylamino)demethyl(oxy)aaptamine, an anti-dormant mycobacterial substance**  
(<sup>1</sup> Ritsumeikan University, <sup>2</sup> Osaka University)  
Yuki Nakatani<sup>1</sup>, Hiroki Nonaka<sup>2</sup>, Junya Mukomura<sup>1</sup>, Tomoyo Kimata<sup>1</sup>, Risa Kimura<sup>1</sup>, Michinori Yanagihara<sup>1</sup>, Hiromasa Sato<sup>2</sup>, Masayoshi Arai<sup>2</sup>, Naoyuki Kotoku<sup>1</sup>
- P2-17 Regioselective Hydrosilylation and Rapid Derivatization of Alkynes Using Glycidyl Silanes and Its Application to Natural Products**  
(<sup>1</sup> Graduate School of Pharmaceutical Sciences, Tohoku University, <sup>2</sup> Faculty of Pharmacy, Keio University)  
Akihiro Sugawara<sup>1</sup>, Soya Koremura<sup>1</sup>, Yusuke Sasano<sup>1</sup>, Haruhisa Kikuchi<sup>1,2</sup>
- P2-18 Catalytic substrate-selective silylation of primary alcohols via remote functional group recognition**  
(<sup>1</sup> ICR, Kyoto University, <sup>2</sup> Grad. Sch. Pharm. Sci., Kyoto University, <sup>3</sup> Fac. Pharm. Sci., IUHW)  
Yoshihiro Ueda<sup>1</sup>, Hisashi Hashimoto<sup>1</sup>, Kiyosei Takasu<sup>2</sup>, Takeo Kawabata<sup>1,3</sup>



- P2-19 Highly sterically hindered peptide bond formation between  $\alpha,\alpha$ -disubstituted  $\alpha$ -amino acids and *N*-alkyl cysteines using  $\alpha,\alpha$ -disubstituted  $\alpha$ -amidonitrile**  
(<sup>1</sup> Tohoku University)  
Wang Xiaoling<sup>1</sup>, Jing Li<sup>1</sup>, Yujiro Hayashi<sup>1</sup>
- P2-20 Isolation, Identification, and DFT-based Conformational Analysis of Sesquikarahanadienone and its Congeners from Freshwater Dothideomycetes *Neohelicascus aquaticus* KT4120**  
(<sup>1</sup> Faculty of Agriculture and Life Science, Hirosaki University, <sup>2</sup> Institute of Natural Medicine, University of Toyama)  
Ayane Hayasaka<sup>1</sup>, Kazuki Hashimoto<sup>1</sup>, Katsuhiko Konno<sup>2</sup>, Kazuaki Tanaka<sup>1</sup>, Masaru Hashimoto<sup>1</sup>
- P2-21 Study on the crystal conformation and the TJ opening mechanism of MA026, a cyclic peptide**  
(<sup>1</sup> Grad. Sch. of Sci. and Tec., Univ. Tsukuba, <sup>2</sup> High Energy Accelerator Research Organization (KEK), <sup>3</sup> Inst. of Microbial Chem., <sup>4</sup> Fac. Life Environ. Sci., Univ. Tsukuba, <sup>5</sup> Tokyo Univ. Pharm. Life Sci.)  
Minagi Mukaiyama<sup>1</sup>, Naohiro Matsugaki<sup>2</sup>, Tomokazu Ohishi<sup>3</sup>, Yoko Nagumo<sup>4</sup>, Manabu Kawada<sup>3</sup>, Yoshio Hayashi<sup>5</sup>, Toshiya Senda<sup>3</sup>, Takeo Usui<sup>4</sup>
- P2-22 Conformational analysis of flexible ellagitannins**  
(<sup>1</sup> Grad. Sch. Biomed. Sci., Nagasaki Univ., <sup>2</sup> Sch. Pharm. Sci., Nagasaki Univ.)  
Misato Iki<sup>1</sup>, Chiho Okubo<sup>2</sup>, Yosuke Matsuo<sup>1</sup>, Yoshinori Saito<sup>1</sup>, Takashi Tanaka<sup>1</sup>
- P2-23 Next generation natural product chemistry by the precise engineering of type I polyketide synthase**  
(<sup>1</sup> AIST, <sup>2</sup> N2PC, <sup>3</sup> Kitasato University)  
Kei Kudo<sup>1</sup>, Takuya Hashimoto<sup>1</sup>, Junko Hashimoto<sup>2</sup>, Ikuko Kozono<sup>2</sup>, Noritaka Kagaya<sup>2</sup>, Reiko Ueoka<sup>1</sup>, Takehiro Nishimura<sup>2</sup>, Mamoru Komatsu<sup>3</sup>, Haruo Ikeda<sup>3</sup>, Kazuo Shin-ya<sup>1</sup>
- P2-24 Identification and functional analysis of a new type of *Z,E*-mixed prenyl reductase from mycobacteria**  
(<sup>1</sup> Niigata University Graduate School of Science and Technology, <sup>2</sup> Niigata University School of Medicine, <sup>3</sup> Nagoya University)  
Tohru Abe<sup>1</sup>, Mariko Hakamata<sup>2</sup>, Akihito Nishiyama<sup>2</sup>, Yoshitaka Tateishi<sup>2</sup>, Sohkichi Matsumoto<sup>2</sup>, Hisashi Hemmi<sup>3</sup>, Daijiro Ueda<sup>1</sup>, Tsutomu Sato<sup>1</sup>
- P2-25 Isolation of interesting secondary metabolites by OSMAC approach**  
(<sup>1</sup> RIKEN CSRS, <sup>2</sup> Waseda University, <sup>3</sup> University of Shizuoka, <sup>#</sup> Current affiliation)  
Toshihiko Nogawa<sup>1</sup>, Julius Adam V. Lopez<sup>1</sup>, Yushi Futamura<sup>1,2,#</sup>, Akiko Okano<sup>1</sup>, Kazuko Yoshida<sup>1</sup>, Takeshi Shimizu<sup>1</sup>, Hiroyuki Koshino<sup>1</sup>, Hiroyuki Osada<sup>1,3,#</sup>
- P2-26 Isolation of biologically active compounds from the methanol extract of kuji amber using the yeast ubiquitin ligase RSP5 mutant strain**  
(<sup>1</sup> Grad. Sch. of Arts and Sci. Iwate Univ., <sup>2</sup> Div. of Biol. Sci. NAIST, <sup>3</sup> RIKEN CSRS)  
Seiya Tanba<sup>1</sup>, Kurumi Tanaka<sup>1</sup>, Hiroshi Takagi<sup>2</sup>, Hiroyuki Koshino<sup>3</sup>, Ken-ichi Kimura<sup>1</sup>



**P2-27 Chemical studies on bitter principle, lascivol and the related compounds of *Tricholoma* spp.**

(<sup>1</sup> Shizuoka University, <sup>2</sup> Tokyo University of Agriculture)

Yumiko Oba<sup>1</sup>, Yuri Nakamura<sup>2</sup>, Wu Jing<sup>1</sup>, Makoto Urai<sup>2</sup>, Motohiro Tomizawa<sup>2</sup>, Hirokazu Kawagishi<sup>1</sup>, Kimiko Hashimoto<sup>2</sup>

**P2-28 Discovery of novel bifunctional drimane sesquiterpene synthases from marine bacteria**

(<sup>1</sup> RIKEN CSRS, Natural Product Biosynthesis Research Unit, <sup>2</sup> RIKEN CSRS, Biomolecular Characterization Unit)

Nhu Ngoc Quynh Vo<sup>1</sup>, Yuhta Nomura<sup>2</sup>, Kiyomi Kinugasa<sup>1</sup>, Hiroshi Takagi<sup>1</sup>, Yumi Shiozaki-Sato<sup>1</sup>, Shunji Takahashi<sup>1</sup>