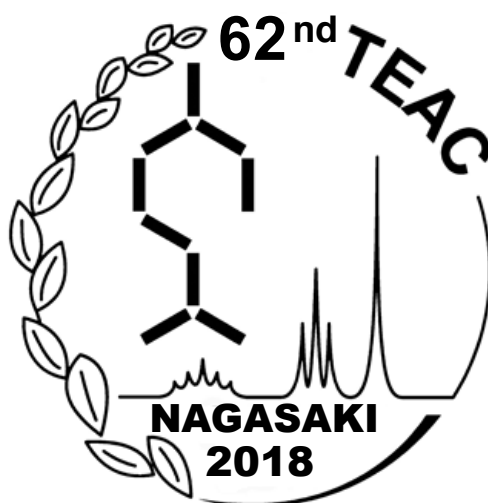


**The 62<sup>nd</sup>  
Symposium on the Chemistry of Terpenes,  
Essential Oils and Aromatics**

**Program  
Participants Index**

**October 13–15, 2018  
Nagasaki University  
Japan**



Organized by: Symposium on the Chemistry of Terpenes, Essential Oils and Aromatics

Co-organized by: The Chemical Society of Japan • The Pharmaceutical Society of Japan •

Japan Society for Bioscience, Biotechnology, and Agrochemistry •

The Japanese Society of Pharmacognosy • Nagasaki University •

Shimomura Nobel Laureate Memorial Center for Drug Discovery •

Japan Oil Chemists' Society • The Society of Synthetic Organic Chemistry, Japan

Supported by: Nagasaki Prefecture • Nagasaki City • Nagasaki City Board of Education

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## October 13

Venue S	Plenary Lecture, Invited Lecture
Venue I	Essential Oil Chemistry
Venue II	Terpenoid Chemistry
Venue III	Biological Chemistry
Venue IV	Flavor and Fragrance Science, Essential Oil Chemistry

## October 14

Venue S	Plenary Lecture, Invited Lecture
Venue I	Essential Oil Chemistry
Venue II	Terpenoid Chemistry
Venue III	Biological Chemistry
Venue IV	Flavor and Fragrance Science

## 62<sup>nd</sup> TEAC October 13 (Sat.)

	Time Schedule				Chairperson			
	Venue I	Venue II	Venue III	Venue IV	Venue I	Venue II	Venue III	Venue IV
9:30	1AI-1 (K20180084)	1AII-1 (K20180005)	1AIII-1 (K20180090)	1AIV-1 (K20180007)				
9:45	1AI-2 (K20180091)	1AII-2 (K20180099)	1AIII-2 (K20180102)	1AIV-2 (K20180053)	K. Kumazawa (Ogawa & Co., Ltd.)	J. Ishihara (Nagasaki Univ.)	S. Toyonaga (Soda Aromatic Co., Ltd.)	M. Horiuchi (Takata Koryu Co., Ltd.)
10:00	1AI-3 (K20180039)	1AII-3 (K20180108)	1AIII-3 (K20180081)	1AIV-3 (K20180067)	Y. Yaoita (Tohoku Med. Pharm. Univ.)	A. Wada (Kobe Pharm. Univ.)	N. Okubo (National Agric. Food Res. Org.)	T. Myoda (Tokyo Univ. Agric.)
10:15	1AI-4 (K20180038)	1AII-4 (K20180010)	1AIII-4 (K20180069)	1AIV-4 (K20180085)				
10:30	1AI-5 (K20180078)	1AII-5 (K20180068)	1AIII-5 (K20180036)	1AIV-5 (K20180015)				
10:45	Break (15 min)				Break (15 min)			
11:00	Invited Lecture-1	Venue S			K. Honda (Yokohama National Univ.)	Venue S		
11:30	Lunch Break (90 min)				Lunch Break (90 min)			
13:00	1PI-1 (K20180019)	1PII-1 (K20180101)	1PIII-1 (K20180103)	1PIV-1 (K20180097)				
13:15	1PI-2 (K20180088)	1PII-2 (K20180060)	1PIII-2 (K20180027)	1PIV-2 (K20180098)	Y. Imayoshi (San-Ei Gen F.F.I., Inc.)	S. Nagumo (Kogakuin Univ.)	H. Nagai (Zensho Holdings Co., Ltd.)	C. Kuroda (Rikkyo Univ.)
13:30	1PI-3 (K20180013)	1PII-3 (K20180022)	1PIII-3 (K20180028)	1PIV-3 (K20180043)	E. Kuraya (Natl. Inst. Tech., Okinawa Coll.)	T. Morimoto (Nara Inst. Sci. Tech.)	K. Shimizu (Kyushu Univ.)	T. Hasegawa (Saitama Univ.)
13:45	1PI-4 (K20180021)	1PII-4 (K20180061)	1PIII-4 (K20180041)	1PIV-4 (K20180011)				
14:00	Break (15 min)				Break (15 min)			
14:15	1PI-5 (K20180026)	1PII-5 (K20180073)	1PIII-5 (K20180051)	1PIV-5 (K20180001)				
14:30	1PI-6 (K20180034)	1PII-6 (K20180037)	1PIII-6 (K20180096)	1PIV-6 (K20180002)	S. Ishizaki (T. Hasegawa Co., Ltd.)	M. Kawasaki (Toyama Pref. Univ.)	H. Hamada (Okayama Univ. Sci.)	T. Kamada (Shizuoka Inst. Sci. Tech.)
14:45	1PI-7 (K20180029)	1PII-7 (K20180082)	1PIII-7 (K20180072)	1PIV-7 (K20180044)	Y. Okuno (Natl. Inst. Tech., Wakayama Coll.)	T. Mino (Chiba Univ.)	Y. Matsuo (Tokyo Univ. Pharm. Life Sci.)	Y. Shimotori (Kitami Inst. Technol.)
15:00	1PI-8 (K20180008)	1PII-8 (K20180063)	1PIII-8 (K20180077)	1PIV-8 (K20180040)				
15:15	1PI-9 (K20180009)	1PII-9 (K20180079)	1PIII-9 (K20180104)	1PIV-9 (K20180042)				
15:30	Break (15 min)				Break (15 min)			
15:45	Invited Lecture-2	Venue S			N. Mase (Shizuoka Univ.)	Venue S		
16:15	Break (15 min)				Break (15 min)			
16:30	Plenary Lecture-1	Venue S			S. Ohta (Hiroshima Univ.)	Venue S		
17:30	Officers' meeting				Officers' meeting			
18:30	Officers' meeting				Officers' meeting			

## 62<sup>nd</sup> TEAC October 14 (Sun.)

	Time Schedule				Chairperson							
	Venue I	Venue II	Venue III	Venue IV	Venue I	Venue II	Venue III	Venue IV				
9:30	2AI-1 (K20180070)	2AII-1 (K20180059)	2AIII-1 (K20180004)	2AIV-1 (K20180086)	H. Endo (Shiono Koryo Kaisha, Ltd.)	K. Ishigami (Tokyo Univ. Agric.)	S. Hashimoto (Nagaoka Co., Ltd.)	T. Shinada (Osaka City Univ.)				
9:45	2AI-2 (K20180048)	2AII-2 (K20180058)	2AIII-2 (K20180014)	2AIV-2 (K20180056)								
10:00	2AI-3 (K20180032)	2AII-3 (K20180054)	2AIII-3 (K20180107)	2AIV-3 (K20180106)								
10:15	2AI-4 (K20180031)	2AII-4 (K20180076)	2AIII-4 (K20180105)	2AIV-4 (K20180062)					Y. Akakabe (Yamaguchi Univ.)	T. Suzuki (Hokkaido Univ.)	T. Sato (Niigata Univ.)	F. Nagashima (Daiichi Univ. Pharm.)
10:30	2AI-5 (K20180030)	2AII-5 (K20180057)	2AIII-5 (K20180100)	/								
10:45	Break (15 min)				Break (15 min)							
11:00	Invited Lecture-3	Venue S			H. Okamura (Kagoshima Univ.)	Venue S						
11:30	Lunch Break (75 min)				Lunch Break (75 min)							
12:45	2PI-1 (K20180006)	2PII-1 (K20180012)	2PIII-1 (K20180046)	2PIV-1 (K20180087)	T. Kimura (Konan Chem. Ind. Co., Ltd.)	Y. Tanaka (Taiyo Corp.)	S. Oda (Kanazawa Inst. Technol.)	S. Tanimori (Osaka Pref. Univ.)				
13:00	2PI-2 (K20180045)	2PII-2 (K20180065)	2PIII-2 (K20180047)	2PIV-2 (K20180064)								
13:15	2PI-3 (K20180049)	2PII-3 (K20180033)	2PIII-3 (K20180017)	2PIV-3 (K20180018)								
13:30	2PI-4 (K20180052)	2PII-4 (K20180055)	2PIII-4 (K20180020)	2PIV-4 (K20180074)					T. Inoue (Oita Univ.)	H. Yamada (Kwansei Gakuin Univ.)	Y. Kawai (Nagahama Inst. Bio. Sci. Tech.)	S. Marumoto (Kindai Univ.)
13:45	Break (15 min)								Break (15 min)			
14:00	2PI-5 (K20180071)	2PII-5 (K20180016)	2PIII-5 (K20180089)	2PIV-5 (K20180050)	M. Emura (Takasago International Corp.)	S. Kobayashi (Osaka Inst. Technol.)	T. Inui (Suntory Beer Ltd.)	H. Tsuda (Nippon Terpene Chemicals, Inc.)				
14:15	2PI-6 (K20180092)	2PII-6 (K20180093)	2PIII-6 (K20180095)	2PIV-6 (K20180075)								
14:30	2PI-7 (K20180003)	2PII-7 (K20180035)	2PIII-7 (K20180094)	2PIV-7 (K20180080)								
14:45	2PI-8 (K20180066)	2PII-8 (K20180023)	/	/					H. Miyataka (Tokushima Bunri Univ.)	H. Takikawa (Univ. Tokyo)	B. Shimizu (Toyo Univ.)	K. Nakashima (Tokushima Bunri Univ.)
15:00	Break (15 min)								Break (15 min)			
15:15	Plenary Lecture-2	Venue S			S. Kuwahara (Tohoku Univ.)	Venue S						
16:15	Break (15 min)				Break (15 min)							
16:30	Plenary Lecture-3	Venue S			T. Tanaka (Nagasaki Univ.)	Venue S						
17:30	Banquet (HOTEL NEW NAGASAKI)				Banquet (HOTEL NEW NAGASAKI)							
18:30	Banquet (HOTEL NEW NAGASAKI)				Banquet (HOTEL NEW NAGASAKI)							

## [Plenary Lectures]

### Venue S

October 13 (16 : 30–)

Chairperson : Shinji Ohta (Hiroshima Univ.)

Plenary lecture-1      Relationship between Aroma and Microorganisms in the  
Cosmetics

S-1

Wataru Okazaki (Toyo Univ.)

October 14 (15 : 15–)

Chairperson : Shigefumi Kuwahara (Tohoku Univ.)

Plenary lecture -2      From Terpene Syntheses to Flow Microphotochemistry in  
My TEAC

S-5

Kiyomi Kakiuchi (Nara Inst. Sci. Tech.)

October 14 (16 : 30–)

Chairperson : Takashi Tanaka (Nagasaki Univ.)

Plenary lecture -3      Toward Abolition of Nuclear Weapons —Current Status  
and Issues—

S-9

Tatsujiro Suzuki (Nagasaki Univ. RECNA)



# October 13

Venue I [ Essential Oil Chemistry ]

9:30– Chairpersons: K. Kumazawa (Ogawa & Co., Ltd.) •  
Y. Yaoita (Tohoku Med. Pharm. Univ.)

- 1A I –1** Characteristic Flavor of Hagi Burdock in Traditional Vegetables of Yamaguchi 1  
Mami Hayasaki, Yoshihiko Akakabe  
*Graduate School Sciences and Technology for Innovation, Yamaguchi University, JPN*
- 1A I –2** Diversity of Volatile Components from *Alpinia zerumbet* Flowers 4  
Eisuke Kuraya, Akiko Touyama, Kenta Watanabe  
*National Institute of Technology, Okinawa College, JPN*
- 1A I –3** Odor-Active Compounds of Yuzu (*Citrus junos* Sieb. ex Tanaka) Peel Oil 7  
Ayaka Uehara, Nicolas Baldovini  
*Institut de Chimie de Nice, CNRS UMR 7272, Université Côte d'Azur, FRA*
- 1A I –4** Essential Oils from *Mentha x piperita* Cultivars of Menthol Pathway 9  
Agnieszka Ludwiczuk<sup>1</sup>, Mateusz Stelmasiewicz<sup>1</sup>, Anna Kieltyka-Dadasiewicz<sup>2</sup>  
<sup>1</sup>*Department of Pharmacognosy with Medicinal Plant Unit, Medical University of Lublin, POL*  
<sup>2</sup>*Department of Plant Production Technology and Commodities, University of Life Sciences, POL*
- 1A I –5** The Use of Combinatorial Synthesis for the Characterization of New Natural Volatile Constituents 12  
Nicolas Baldovini  
*Institut de Chimie de Nice, CNRS UMR 7272, Université Côte d'Azur, FRA*



13:00–

Chairpersons: Y. Imayoshi (San-Ei Gen F.F.I Inc.) •

E. Kuraya (Natl. Inst. Tech., Okinawa Coll.)

- 1P I –1** Identification of the Novel Odor Active Compounds “*p*-Menthane Lactones” Responsible for the Characteristic Aroma of Fresh Peppermint Leaf 14  
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*Ogawa & Co., Ltd., JPN*
- 1P I –2** Identification of Flavor Components of Sudachi Essential Oil by GC-TOF/MS 17  
Ikuko Tokuda<sup>1</sup>, Hironobu Takahashi<sup>2</sup>, Yoshinori Asakawa<sup>2</sup>  
<sup>1</sup>*Renati Tura Corporation, JPN*  
<sup>2</sup>*Institute of Pharmacognosy, Tokushima Bunri University, JPN*
- 1P I –3** The Identification of a Key Aroma Compound in *Citrus latifolia* 20  
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*Innovative Research Institute, R&D Center, T. Hasegawa Co., Ltd., JPN*
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*Nippon Flavour Kogyo Co. Ltd., JPN*

14:15–

Chairpersons: S. Ishizaki (T. Hasegawa Co., Ltd.) •

Y. Okuno (Natl. Inst. Tech., Wakayama Coll.)

- 1P I –5** Geographical Distribution of Volatile Components in the Liverwort, *Conocephalum conicum* 25  
Hideki Miyataka<sup>1</sup>, Hiroyuki Akiyama<sup>2</sup>, Yoshinori Asakawa<sup>1</sup>, Yasuko Okamoto<sup>1</sup>  
<sup>1</sup>*Faculty of Pharmaceutical Sciences, Tokushima Bunri University, JPN*  
<sup>2</sup>*Museum of Nature and Human Activities, JPN*

- 1P I –6** Distribution of Volatile Components in the Liverwort *Syzygiella rubricaulis* from Neotropical High Mountains 28  
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<sup>1</sup>*Institut de Pesquisas Jardim Botânico do Rio de Janeiro, BRA*  
<sup>2</sup>*Faculty of Pharmaceutical Sciences, Tokushima Bunri University, JPN*
- 1P I –7** Characteristic Volatile Components of Several Chilean and Peruvian Liverworts 31  
Yoshinori Asakawa<sup>1</sup>, Jorge Cuvertino-Santoni<sup>2</sup>  
<sup>1</sup>*Faculty of Pharmaceutical Sciences, Tokushima Bunri University, JPN*  
<sup>2</sup>*Faculty of Chemistry, Pontifical Catholic University of Chile, CHL*
- 1P I –8** Furanoeremophilanes from *Ligularia lapathifolia* and *L. platyglossa* Collected in China 34  
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<sup>1</sup>*Faculty of Pharmaceutical Sciences, Tohoku Medical and Pharmaceutical University, JPN*  
<sup>2</sup>*Faculty of Pharmaceutical Sciences, Tokushima Bunri University, JPN*  
<sup>3</sup>*College of Science, Rikkyo University, JPN*  
<sup>4</sup>*Kunming Institute of Botany, Chinese Academy of Science, CHN*
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Yasunori Yaoita, Koichi Machida  
*Faculty of Pharmaceutical Sciences, Tohoku Medical and Pharmaceutical University, JP*

## October 13

Venue II

[Terpenoid Chemistry]

9 : 30-

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A. Wada (Kobe Pharm. Univ.)

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*Department of Applied Chemistry, Keio University, JPN*
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*Graduate School of Engineering, Nagasaki University, JPN*
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Yuki Mimura<sup>1</sup>, Mizuki Kitamatsu<sup>2</sup>, Motohiro Shizuma<sup>3</sup>, Yoshitane Imai<sup>2</sup>  
<sup>1</sup>*Department of Graduate School of Science and Engineering, Kindai University, JPN*  
<sup>2</sup>*Department of Applied Chemistry, Faculty of Science and Engineering, Kindai University, JPN*  
<sup>3</sup>*Department of Biochemistry, Osaka Research Institute of Industrial Science and Technology, JPN*
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*Graduate School of Engineering, Chiba University, JPN*

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*Division of Materials Science, Nara Institute of Science and Technology (NAIST), JPN*
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<sup>1</sup>*Graduate School of Biomedical Sciences, Nagasaki University, JPN*  
<sup>2</sup>*Osaka University of Pharmaceutical Sciences, JPN*
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<sup>1</sup>*Graduate School of Science and Engineering, University of Toyama, JPN*  
<sup>2</sup>*Faculty of Engineering, Toyama Prefectural University, JPN*
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*Kobe Pharmaceutical University, JPN*
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*Graduate School of Environment and Information Sciences, Yokohama National University, JPN*

- 1P II -5** Antiproliferative Effects of Zerumbone-Pendant Derivatives on Jurkat Cells  
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<sup>1</sup>*Graduate School of Agriculture, Kindai University, JPN*  
<sup>2</sup>*Graduate School of Bioresources, Mie University, JPN*
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Yoji Hori  
*Department of Food and Cosmetic Science, Tokyo University of Agriculture,  
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Motoo Tori  
*Faculty of Pharmaceutical Sciences, Tokushima Bunri University, JPN*

## October 13

Venue III

[Biological Chemistry]

9:30–

Chairpersons: S. Toyonaga (Soda Aromatic Co., Ltd.) •  
N. Okubo (National Argic. Food Res. Org.)

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<sup>1</sup>*Faculty of Agriculture, Kyushu University, JPN*  
<sup>2</sup>*College of Design, Jiaying University, CHN*  
<sup>3</sup>*Faculty of Humanity-Oriented Science and Engineering, Kindai University, JPN*  
<sup>4</sup>*Agricultural Japan Inst. of Systems Res., JPN*
- 1A III–2** Real-Time Odor Analysis with the Cell Line Harboring Human Olfactory Receptor Signaling Pathway 84  
Miyo Nakamura<sup>1</sup>, Kenji Tatematsu<sup>1</sup>, Tomoko Yamazaki<sup>1,2</sup>, Shun'ichi Kuroda<sup>1,2</sup>  
<sup>1</sup>*ISIR, Osaka Univ., JPN*  
<sup>2</sup>*Komi-hakko Corp., JPN*
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*School of Pharmacy, Tokyo University of Pharmacy and Life Sciences, JPN*
- 1A III–4** Terpenoid-Polyketide-Derived Natural Products, Inhibiting Adult T-cell Leukemia Cell, Isolated from the Red Alga, *Chondria armata* 90  
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*Graduate School of Science and Engineering, Kagoshima University, JPN*

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Takahiro Ishii, Takashi Kamada<sup>1</sup>, Chin-Soon Phan<sup>2</sup>, Charles S. Vairappan<sup>2</sup>  
*Faculty of Agriculture, University of the Ryukyus, JPN*  
<sup>1</sup>*Faculty of Science and Technology, Shizuoka Institute of Science and Technology, JPN*  
<sup>2</sup>*Institute for Tropical Biology and Conservation, Universiti Malaysia Sabah, MAL*
- 13:00-** Chairpersons: H. Nagai (Zensho Holdings Co., Ltd.) •  
K. Shimizu (Kyushu Univ.)
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*Genome Biotechnology Laboratory, Kanazawa Institute of Technology, JPN*
- 1P III-2** Anti-Aging Effects in *Panax ginseng*. II. 99  
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Atsuyuki Yamashita<sup>1</sup>, Natsumi Ohnishi<sup>1</sup>, Ryuji Takeda<sup>2</sup>, Yoshitaka Fujita<sup>3</sup>  
<sup>1</sup>*Faculty of Agriculture, Kindai University, JPN*  
<sup>2</sup>*Faculty of Health and Welfare, Kansai University of Welfare Sciences, JPN*  
<sup>3</sup>*Oji Foods Inc., Ltd., JPN*
- 1P III-3** Discoloration Preventive Agents of Food and Anti-Aging Effects of the 102  
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Akiyoshi Sawabe<sup>1</sup>  
<sup>1</sup>*Faculty of Agriculture, Kindai University, JPN*  
<sup>2</sup>*Faculty of Health and Welfare, Kansai University of Welfare Sciences, JPN*
- 1P III-4** Search for AGEs Inhibitor Included in Immature Persimmon 105  
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*Faculty of Agriculture, Kindai University, JPN*

- 1P III-5** Development of Photoaffinity Labeling Probes for Elucidation of Antimicrobial Activity of Zerumbone 108  
Sae Imamura<sup>1</sup>, Takashi Kitayama<sup>2</sup>, Yasushi Kawai<sup>1</sup>  
<sup>1</sup>*Nagahama Institute of Bio-Science and Technology, JPN*  
<sup>2</sup>*Faculty of Agriculture, Kindai University, JPN*
- 1P III-6** Suppression of Cancer Cell Proliferation by New Anacardic Acids Derived from *Tyromyces fissilis* 111  
Shunsuke Mitomo<sup>1</sup>, Yuta Morishita<sup>2</sup>, Ayumi Tsutsui<sup>1</sup>, Mitsuru Hirota<sup>2</sup>, Tomoyuki Fujita<sup>1</sup>  
<sup>1</sup>*Graduate School of Science and Technology, Shinshu University, JPN*  
<sup>2</sup>*Faculty of Agriculture, Shinshu University, JPN*
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<sup>1</sup>*Pharmaceutical Research and Technology Institute, Kindai University, JPN*  
<sup>2</sup>*Antiaging Center, Kindai University, JPN*  
<sup>3</sup>*Joint Research Center, Kindai University, JPN*  
<sup>4</sup>*Osaka University of Pharmaceutical Sciences, JPN*
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<sup>1</sup>*Pharmaceutical Research and Technology Institute, Kindai University, JPN*  
<sup>2</sup>*Kaminomoto Ltd., JPN*



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Kiyofumi Ninomiya<sup>1</sup>

<sup>1</sup>*Pharmaceutical Research and Technology Institute, Kindai University, JPN*

<sup>2</sup>*Rajamangala University of Technology Srivijaya, THA*

## October 13

Venue IV

[Flavor and Fragrance Science]  
[Essential Oil Chemistry]

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T. Myoda (Tokyo Univ. Agric.)

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<sup>2</sup>*Faculty of pharmacy, Nihon Pharmaceutical University, JPN*  
<sup>3</sup>*Faculty of Engineering, Kindai University, JPN*
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<sup>1</sup>*ALBION Co., Ltd., JPN*  
<sup>2</sup>*Ishii Dermatology clinic, JPN*  
<sup>3</sup>*Sato Hospital, JPN*  
<sup>4</sup>*Graduate School of Medicine, Gunma University, JPN*

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<sup>1</sup>*Corporate Research and Development Division, Takasago International Corporation, JPN*

<sup>2</sup>*JST-ACCEL, JPN*

<sup>3</sup>*School of Engineering, the University of Tokyo, JPN*

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*Faculty of Science and Technology, Shizuoka Institute of Science and Technology, JPN*  
<sup>1</sup>*Faculty of Agriculture, University of the Ryukyus, JPN*  
<sup>2</sup>*Institute for Tropical Biology and Conservation, Universiti Malaysia Sabah, MAL*
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*College of Science, Rikkyo University, JPN*  
<sup>1</sup>*Faculty of Pharmaceutical Sciences, Tokushima Bunri University, JPN*  
<sup>2</sup>*Kunming Institute of Botany, Chinese Academy of Science, CHN*
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*College of Science, Rikkyo University, JPN*  
<sup>1</sup>*Faculty of Pharmaceutical Sciences, Tokushima Bunri University, JPN*  
<sup>2</sup>*Kunming Institute of Botany, Chinese Academy of Science, CHN*
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<sup>1</sup>*College of Humanities and Sciences, Nihon University, JPN*  
<sup>2</sup>*Chemical Genomics Research Group, RIKEN CSRS, JPN*  
<sup>3</sup>*Kunming Institute of Botany, Chinese Academy of Science, CHN*  
<sup>4</sup>*Department of Chemistry, Rikkyo University, JPN*

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<sup>1</sup>*College of Humanities and Sciences, Nihon University, JPN*  
<sup>2</sup>*Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental  
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*College of Humanities and Sciences, Nihon University, JPN*

## October 14

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Y. Akakabe (Yamaguchi Univ.)

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<sup>1</sup>*San-Ei Gen F.F.I., Inc., JPN*

<sup>2</sup>*Iki Development Bureau, Nagasaki Prefectural Government, JPN*

<sup>3</sup>*Agricultural and Forestry Technical Development Center, Nagasaki  
Prefectural Government, JPN*

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<sup>1</sup>*Corporate Research and Development Division, Takasago International  
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<sup>2</sup>*Faculty of Pharmaceutical Sciences, Tokushima Bunri University, JPN*

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<sup>1</sup>*Corporate Research and Development Division, Takasago International  
Corporation, JPN*

<sup>2</sup>*Faculty of Pharmaceutical Sciences, Tokushima Bunri University, JPN*

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<sup>1</sup>*Corporate Research and Development Division, Takasago International Corporation, JPN*

<sup>2</sup>*Faculty of Pharmaceutical Sciences, Tokushima Bunri University, JPN*

**12:45–** Chairpersons: T. Kimura (Konan Chem. Ind. Co., Ltd.) •  
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Ryo Hanai<sup>3</sup>, Chiaki Kuroda<sup>3</sup>, Xun Gong<sup>4</sup>

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<sup>2</sup>*Faculty of Pharmaceutical Sciences, Tokushima Bunri University, JPN*

<sup>3</sup>*College of Science, Rikkyo University, JPN*

<sup>4</sup>*Kunming Institute of Botany, Chinese Academy of Science, CHN*

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<sup>1</sup>*Graduate School of Biomedical Sciences, Nagasaki University, JPN*

<sup>2</sup>*Faculty of Pharmaceutical Sciences, Tokushima Bunri University, JPN*

<sup>3</sup>*College of Science, Rikkyo University, JPN*

<sup>4</sup>*Kunming Institute of Botany, Chinese Academy of Science, CHN*

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<sup>1</sup>*Graduate School of Biomedical Sciences, Nagasaki University, JPN*  
<sup>2</sup>*Faculty of Pharmaceutical Sciences, Tokushima Bunri University, JPN*  
<sup>3</sup>*College of Science, Rikkyo University, JPN*  
<sup>4</sup>*Kunming Institute of Botany, Chinese Academy of Science, CHN*

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<sup>1</sup>*Central Laboratories for Key Technologies, Kirin Co., Ltd., JPN*  
<sup>2</sup>*Department of Applied Chemistry, School of Engineering, the University of Tokyo, JPN*  
<sup>3</sup>*JST-ACCEL, JPN*

**14:00-** Chairpersons: M. Emura (Takasago International Corp.) •  
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<sup>2</sup>*Niigata Agricultural Research Institute Horticultural Research Center, JPN*

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<sup>1</sup>*Shiono R&D Center, Shiono Koryo Kaisha, Ltd., JPN*  
<sup>2</sup>*Niigata Agricultural Research Institute Horticultural Research Center, JPN*



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*Institute of Vegetable and Floriculture Science, NARO, JPN*

## September 10

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T. Suzuki (Hokkaido Univ.)

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<sup>1</sup>*Graduate School of Chemical Sciences and Engineering, Hokkaido University, JPN*  
<sup>2</sup>*Faculty of Science, Hokkaido University, JPN*
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<sup>2</sup>*Faculty of Science, Hokkaido University, JPN*
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<sup>1</sup>*Graduate School of Chemical Sciences and Engineering, Hokkaido University, JPN*  
<sup>2</sup>*Ogawa & Co., Ltd., JPN*  
<sup>3</sup>*Faculty of Science, Hokkaido University, JPN*

14:00–

Chairpersons: S. Kobayashi (Osaka Inst. Technol.) •  
H. Takikawa (Kobe Univ.)

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Yusuke Ogura<sup>1</sup>  
<sup>1</sup>*Graduate School of Agricultural Science, Tohoku University, JPN*  
<sup>2</sup>*Research and Analytical Center for Giant Molecules, Graduate School of  
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*Graduate School of Biomedical Sciences, Nagasaki University, JPN*  
<sup>1</sup>*NU-MIC, JPN*
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*Department of Applied Biological Chemistry, The University of Tokyo, JPN*  
<sup>1</sup>*Department of Chemistry for Life Sciences and Agriculture, Tokyo University  
of Agriculture, JPN*

## October 14

Venue III

[Biological Chemistry]

9:30–

Chairpersons: S. Hashimoto (Nagaoka Co., Ltd.) •  
T. Sato (Niigata Univ.)

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*Department of Electrical and Electronic Engineering, Okayama University of Science, JPN*  
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<sup>1</sup>*Department of Industrial Pharmacy, Daiichi University of Pharmacy, JPN*  
<sup>2</sup>*Graduate School of Biomedical Sciences, Nagasaki University, JPN*  
<sup>3</sup>*Department of Biophysical Chemistry, Kobe Pharmaceutical University, JPN*  
<sup>4</sup>*Graduate School of Pharmaceutical Sciences, Nagasaki International University, JPN*
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<sup>1</sup>*National Institute of Technology, Wakayama College, JPN*  
<sup>2</sup>*Joint Research Centre, Kindai University, JPN*  
<sup>3</sup>*Graduate School of Materials Science, Nara Institute of Science and Technology, JPN*  
<sup>4</sup>*Department of Applied Chemistry, Kindai University, JPN*

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<sup>1</sup>*Faculty of Agriculture, Kindai University, JPN*  
<sup>2</sup>*Natural Product Division, Inabata Koryo Co., LTD., JPN*
- 12:45-** Chairpersons: S. Oda (Kanazawa Inst. Technol.) •  
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 Tetsuro Shinada<sup>3</sup>, Tsutomu Sato<sup>1</sup>  
<sup>1</sup>*Faculty of Agriculture and Graduate School of Science and Technology,  
 Niigata University, JPN*  
<sup>2</sup>*Faculty of Science and Graduate School of Science, Kyoto University, JPN*  
<sup>3</sup>*Faculty of Science and Graduate School of Science, Osaka City University, JPN*
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<sup>1</sup>*Graduate School of Biosphere Science, Hiroshima University, JPN*  
<sup>2</sup>*Graduate School of Bioscience, Nagahama Institute for Bioscience and  
 Technology, JPN*  
<sup>3</sup>*Graduate School of Integrated Arts and Sciences, Hiroshima University, JPN*

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<sup>1</sup>*Graduate School of Biomedical Sciences, Nagasaki University, JPN*  
<sup>2</sup>*School of Pharmaceutical Sciences, Nagasaki University, JPN*
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<sup>1</sup>*Joint Research Center, Kindai University, JPN*  
<sup>2</sup>*Graduate School of Materials Science, Nara Institute of Science and  
Technology, JPN*  
<sup>3</sup>*Department of Applied Chemistry, Kindai University, JPN*
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Kyouko Sugimoto  
*Genome Biotechnology Laboratory, Kanazawa Institute of Technology, JPN*
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<sup>1</sup>*Graduate School of Science, Okayama University of Science, JPN*  
<sup>2</sup>*Faculty of Medicine, Oita University, JPN*

## October 14

Venue IV

[Flavor and Fragrance Science]

9:30–

Chairpersons: T. Shinada (Osaka City Univ.) •

F. Nagashima (Daiichi Univ. Pharm.)

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Yusuke Murakami<sup>1</sup>, Yukie Ohba<sup>2</sup>, Hisakatsu Iwabuchi<sup>1</sup>, Harukazu Fukami<sup>3</sup>  
<sup>1</sup>*San-Ei Gen F.F.I., Inc., JPN*  
<sup>2</sup>*SUNTORY Foundation for Life Sciences Bioorganic Research Institute, JPN*  
<sup>3</sup>*Faculty of Bioenvironmental Science, Kyoto Gakuen University, JPN*
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Andreas Dunkel<sup>3</sup>, Thomas Hofmann<sup>2,3</sup>  
<sup>1</sup>*R&D Center, T. Hasegawa Co., LTD., JPN*  
<sup>2</sup>*Leibniz-Institute for Food System Biology at the Technical University of  
Munich, GER*  
<sup>3</sup>*Chair for Food Chemistry and Molecular Sensory Science, Technical  
University of Munich, GER*
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Takanori Suzuki<sup>2</sup>, Yoji Hori<sup>1</sup>, Kazuki Toeda<sup>1</sup>, Takao Myoda<sup>1</sup>  
<sup>1</sup>*Department of Food Aroma & Cosmetic Chemistry, Tokyo University of  
Agriculture, JPN*  
<sup>2</sup>*Tokyo Allied Coffee Rosters Co., Ltd., JPN*
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Tetsuya Watanabe<sup>1</sup>  
*Asahi Breweries., Ltd., JPN*



12:45–

Chairpersons: S. Tanimori (Osaka Pref. Univ.) •  
S. Marumoto (Kindai Univ.)

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*R&D, Takatakoryo Co., Ltd., JPN*

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<sup>1</sup>*San-Ei Gen F.F.I., Inc., JPN*

<sup>2</sup>*Institute of Fruit Tree and Tea Science, NARO, JPN*

**2PIV–3** Search of Lemon (*Citrus limon* L.) Aroma Contribution Compounds 292

Naoki Asahina, Kenzou Kasai, Hanna Ochi, Shoji Hattori, Syusaku Morishita

*Soda Aromatic Co., Ltd., JPN*

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*Nippon Flavour Kogyo Co., Ltd., JPN*

14:00–

Chairpersons: H. Tsuda (Nippon Terpene Chemicals, Inc.) •  
K. Nakashima (Tokushima Bunri Univ.)

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Shinji Tanimori<sup>1</sup>

<sup>1</sup>*Graduate School of Life and Environmental Sciences, Osaka Prefecture  
University, JPN*

<sup>2</sup>*Research and Development Center, Nagaoka Co., Ltd., JPN*

- 2PIV-6** Asymmetric Synthesis and Sensorial Property of the Aromatic Bisabolane Sesquiterpene Isolated from the Genus *Curcuma* 301  
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Tomoo Nukada<sup>2</sup>  
<sup>1</sup>*Graduate School of Agriculture, Tokyo University of Agriculture, JPN*  
<sup>2</sup>*Faculty of Life Science, Tokyo University of Agriculture, JPN*
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*Technical Research Institute, T. Hasegawa Co., Ltd., JPN*