

Asia-Pacific Conference on Chemical Ecology 2007 Tsukuba: Symposium Program

Symposium A Aquatic ecosystems <Mari Yotsu-Yamashita; Peiyuan Qian> Sep 11 (Tue) Afternoon

| | | | | | |
|------------|-------------|----------------------|--|---|-----------|
| A-1 | 14:20-14:45 | Hiroshi Nagai | Bioactive polypeptides of the marine venomous animals | Tokyo Univ. of Marine Sci. & Technol. | Japan |
| A-2 | 14:45-15:10 | Peiyuan Qian | Differential gene and protein expression during larval settlement and metamorphosis in response to chemical cues | Hong Kong Univ. of Science & Technology | China |
| A-3 | 15:30-15:55 | Mari Yotsu-Yamashita | Tetrodotoxin resistant systems of the toxin possessing animals | Tohoku Univ. | Japan |
| A-4 | 15:55-16:20 | Rocky de Nys | Surface mediated interactions in the marine environment - The role of natural products | James Cook Univ. | Australia |
| A-5 | 16:20-16:45 | Yoichi Nakao | Bioactive small molecules from marine organisms | Waseda Univ. | Japan |

Symposium B Sociobiology and human <Hiromi Sasagawa; Robin Crewe> Sep 12 (Wed) Morning

| | | | | | |
|------------|-------------|---|--|---|--------------|
| B-1 | 9:45-10:10 | Shota Nishitani (1) & Kazuyuki Shinohara (2) | Chemical communication in humans | Nagasaki Univ. | Japan |
| B-2 | 10:10-10:35 | Takefumi Kikusui | Behavioral adaptations using chemical cues in rodents | Azabu Univ. | Japan |
| B-3 | 10:55-11:20 | Robin Crewe | Alternative forms of reproductive regulation in honeybees: semiochemical contests vs physical contests | Univ. Pretoria | South Africa |
| B-4 | 11:20-11:45 | Hiromi Sasagawa | Semiochemicals inducing social behaviors in honeybees | Foundation for Advancement of International Science | Japan |
| B-5 | 11:45-12:10 | Ryohei Yamaoka | Cuticular hydrocarbons, the most important semiochemicals maintaining complex ant societies | Kyoto Inst. of Technology | Japan |

Asia-Pacific Conference on Chemical Ecology 2007 Tsukuba: Symposium Program

| Symposium C Plant allelochemical diversity <Y. Fujii; Z. Iqbal; W. Chavasiri> Sep 12 (Wed) Morning | | | | | |
|---|-------------|--|--|---|----------|
| C-1 | 9:45-10:10 | Kenji Matsui | Green Leaf Volatiles: Inter- and intra-plant signal molecules | Yamaguchi Univ. | Japan |
| C-2 | 10:10-10:35 | Tsukasa Iwashina (1) & Yoshinori Murai (2) | Natural flavonoids in plants as ultraviolet shields | 1) Nat'l Museum of Nature & Sci., 2) Tokyo Univ. of Agric. & Technol. | Japan |
| C-3 | 10:55-11:20 | Zahida Iqbal (1) & Habib Nasir (2) | Allelopathy of semi-arid region plants | 1) Univ. of Arid Agric. Rawalpindi, 2) Nat'l Inst. for Agro-Environ. Sci. | Pakistan |
| C-4 | 11:20-11:45 | Yoshiharu Fujii | Invasive plants and allelopathy | National Inst. for Agro-Environ. Sci. | Japan |
| C-5 | 11:45-12:10 | Shiming Luo | Induction of rice signaling pathway and defense related genes by infection of pathogen of rice blast disease (<i>Magnaporthe grisea</i>) | South China Agriculture Univ. | China |
| Symposium D Chemical senses and behavior <M. Ozaki; W. v. d. G. v. Naters> Sep 13 (Thu) Morning | | | | | |
| D-1 | 9:45-10:10 | Mamiko Ozaki | Chemical input and neuronal system for aggressiveness in a Japanese carpenter ant | Kobe Univ. | Japan |
| D-2 | 10:10-10:35 | Robert K. Vander Meer | The complexity of fire ant nestmate recognition | USDA Gainesville | USA |
| D-3 | 10:55-11:20 | Wynand van der Goes van Naters | Odor and taste receptors in <i>Drosophila melanogaster</i> : a functional analysis | Yale Univ. | USA |
| D-4 | 11:20-11:45 | Erika Plettner & Yongmei Gong | Insights into the mechanism of ligand binding and release of the pheromone-binding proteins from the gypsy moth, <i>Lymantria dispar</i> | Simon Fraser Univ. | Canada |
| D-5 | 11:45-12:10 | Ryohei Kanzaki | Insect-machine hybrid systems -novel neuroethological approaches for analyzing adaptive behaviors- | Univ. of Tokyo | Japan |

Asia-Pacific Conference on Chemical Ecology 2007 Tsukuba: Symposium Program

| Symposium E Insect-plant interactions I <Kotaro Konno; David E. Dussourd> Sep 13 (Thu) Morning | | | | | |
|--|-------------|--|--|---|-------------|
| E-1 | 9:45-10:10 | Takao Itioka (1) & Masahiro Nomura (2) | Diversity of anti-herbivore defenses in <i>Macaranga</i> myrmecophytes | 1) Kyoto Univ., 2) Nagoya Univ. | Japan |
| E-2 | 10:10-10:35 | Kotaro Konno | Diverse ingredients in plant latex and their defensive roles against herbivorous insects: Case studies in papaya, fig and mulberry trees | Nat'l Inst. of Agrobiological Sci. | Japan |
| E-3 | 10:55-11:20 | David E. Dussourd | Behavioral sabotage of plant defense: Chemical releasers of trenching by insect herbivores | Univ. of Central Arkansas | USA |
| E-4 | 11:20-11:45 | Keiichi Honda | Addiction to pyrrolizidine alkaloids in male danaid butterflies: Delving into the evolutionary origin of pharmacophagy | Hiroshima Univ. | Japan |
| E-5 | 11:45-12:10 | Alvin Kah-Wei Hee | An appreciation of the elegant utilisation of a potent plant-derived attractant, methyl eugenol by the male Oriental fruit fly: from ecology to physiology | Lincoln, Canterbury | New Zealand |
| Symposium F Practical use of pheromones <Sadahiro Tatsuki; Yongping Huang> Sep 13 (Thu) Afternoon | | | | | |
| F-1 | 14:10-14:35 | Norio Arakaki | Mating disruption for control of the sugarcane click beetle <i>Melanotus okinawensis</i> Ohira (Coleoptera: Elateridae), with synthetic sex pheromone | Okinawa Pref. Agric. Res. Center | Japan |
| F-2 | 14:35-15:00 | Fumiaki Mochizuki | Utilization of mating disruption products for pest control in Japan | Shin-Etsu Chemical Co., Ltd. | Japan |
| F-3 | 15:20-15:45 | Yongping Huang | Semiochemicals communication and their application in China | Shanghai Inst. of Plant Physiol. & Ecol., Chinese Academy of Sci. | China |
| F-4 | 15:45-16:10 | Allan Cam Oehlschlanger | Mass trapping as a control strategy for tropical Coleoptera | ChemTica Internacional S. A. San Jose | Costa Rica |
| F-5 | 16:10-16:35 | Kazutaka Shinoda | Monitoring stored-product insects by pheromone traps in food-processing facilities in Japan | Fuji Flavor Co. Ltd. | Japan |

Asia-Pacific Conference on Chemical Ecology 2007 Tsukuba: Symposium Program

Symposium G Insect-plant interactions II <Junji Takabayashi; Jeremy McNeil> Sep 13 (Thu) Afternoon

| | | | | | |
|------------|-------------|----------------|---|---|---------|
| G-1 | 14.10-14.25 | Ryoko Ichiki | Olfactory and visual responses to herbivore-infested corn plants by the parasitoid fly <i>Exorista japonica</i> | Japan Internat'l Res. Center for Agric. Sci. | Japan |
| G-2 | 14.25-14.40 | Kaori Shiojiri | Why does sagebrush emit volatile cues that cause neighbor to become more resistant to herbivory? | Kyoto Univ. | Japan |
| G-3 | 14.40-15.00 | Yonggen Lou | Induced direct and indirect defenses and transcriptional responses in rice after infestation by <i>Chilo suppressalis</i> | Zhejiang Univ. | China |
| G-4 | 15.20-15.50 | Monika Hilker | Early herbivore alert: Insect eggs induce plant defence | Freie Univ. | Germany |
| G-5 | 15.50-16.05 | Masaru Satoh | Induced disease resistance in rice plants infested with whitebacked planthopper, <i>Sogatella furcifera</i> | KONARC, Nat'l Agric. & Food Res. Organization | Japan |
| G-6 | 16.05-16.35 | Jeremy McNeil | Do host plant volatiles always attract parasitoids? | Univ. of Western Ontario | Canada |

Symposium H Diversity of pheromonal communication <Tetsu Ando; Gerhard Gries> Sep 14 (Fri) Morning

| | | | | | |
|------------|-------------|--------------------|--|---|---------|
| H-1 | 9:35-9:55 | Stefan Schulz | Chemical diversity of arthropod semiochemicals | Technical Univ. Braunschweig | Germany |
| H-2 | 9:55-10:15 | Tadakazu Nakashima | Functional diversity of boring insects pheromones | Forest Res. Institute | Japan |
| H-3 | 10:35-10:55 | Coby Schal | Sex pheromone communication systems in the German cockroach: A tribute to Ritz | North Carolina State Univ. | USA |
| H-4 | 10:55-11:15 | Kye Chung Park | Diversity of sensory system in pheromonal communication | Penn State Univ. | USA |
| H-5 | 11:15-11:35 | Chang-Yeol Yang | Sex pheromones and reproductive isolation in three species of <i>Adoxophyes</i> in Korea | Korean Horticultural Res. Institute, Rural Development Admin. | Korea |
| H-6 | 11:35-11:55 | Gerhard Gries | Pheromonal communication in selected species of lymantriid moths | Simon Fraser Univ. | Canada |

Asia-Pacific Conference on Chemical Ecology 2007 Tsukuba: Symposium Program

Symposium I Perspectives of Chemical Ecology <Y. Ishikawa; J. Millar; T. Ando> Sep 14 (Fri) Afternoon

| | | | | | |
|-----|-------------|------------------|--|---------------------------------------|-------------|
| I-1 | 13:00-13:25 | Makoto Shinohara | Quorumone: a bacterial cell-cell communication signal has the function as the cross-kingdom signal | Nat'l Inst. of Vegetable & Tea Sci. | Japan |
| I-2 | 13:25-13:50 | Shogo Matsumoto | Molecular mechanisms underlying bombykol biosynthesis in <i>Bombyx mori</i> | The Inst. of Physical & Chemical Res. | Japan |
| I-3 | 13:50-14:15 | Max Suckling | "Talking Trees": How do apple trees signal to lightbrown apple moth parasitoids ? | Hort Research | New Zealand |
| I-4 | 14:35-15:00 | Jocelyn Millar | Identification, synthesis, and applications of pheromones of mealybugs | Univ. of California, Riverside | USA |