



Jena, Germany, 22-26 July 2007

Final Program

www.gdch.de/isce2007



Sunday, July 22

Lecture Hall, Carl-Zeiss-Straße 3, HS 2, Ground Floor

- 13:00–18:00 **Registration and Mounting of Posters**
Foyer of the Lecture Hall
Carl Zeiss Straße 3, Jena
- 17.30 **Official Welcome**
(HS 2, Ground Floor)
- Klaus Dicke**
President of the Friedrich Schiller University, Jena, German
- Wilhelm Boland**
Meeting Host, MPI for Chemical Ecology, Jena, Germany
- Gary Blomquist**
ISCE President, University of Nevada, Reno, USA
- 18:00 **OPENING LECTURE**
(HS 2, Ground Floor)
- Jacques Pasteels**
Université Libre de Bruxelles, Belgium
Evolution of chemical defenses
- 19:00 **Get-together / Grill-party**
-

PROGRAM

PROGRAM

Monday, July 23

Symposium on Insect Semiochemicals I

Lecture Hall, Carl Zeiss Straße 3, HS 2, Ground Floor

Organizers and Chairs: Wittko Francke, Bill Hansson

- 8.30-8.45 **Stefan Schulz**, Technical University of Braunschweig, Germany
Pheromone communication in spiders
- 8.45-9.00 **Jocelyn Millar**, J.S. McElfresh, J. Moreira, and K.M. Daane.,
University of California, Riverside, USA
Strange tales of terpenes: Pheromones of mealybug
- 9.00-9.15 **Manfred Ayasse**, University of Ulm, Germany
Chemical ecology and dominance signals in Bumble Bees
- 9.15-9.30 **Konrad Dettner**, University of Bayreuth, Germany
Chemical defense in Staphylinid beetles
- 9.30-9.45 **Francesca Dani**, University of Florence, Italy
Chemical communication in *Polistes* paper wasps,
a primitively eusocial genus
- 9.45-10.00 **Stefano Colazza**, University of Palermo, Italy
The role of host cuticular hydrocarbons in mediating
the host searching behaviour of an egg parasitoid
- 10.00-10.30 Coffee Break
- 10.30-11.05 **Jürgen Krieger**, University of Stuttgart, Germany
Molecular basis of pheromone reception in moths
- 11.05-11.30 **Hong Lei**, University of Arizona, Tucson, USA
Encoding odor plume dynamics – an approach from
cellular manipulation to behavioral observation
- 11.30-11.45 **Bill Hansson**, MPI for Chemical Ecology, Jena, Germany
Strain-specific pheromone processing in the European
corn borer antennal lobe
- 11.45-12.00 **Angel Guerrero**, Consejo Superior de Investigaciones
Científicas, Barcelona., Spain
Esterase inhibitors as antagonists of insect sex pheromones.
Prospects for practical utilization in the field
- 12:00-14:00 Lunch Break

Monday, July 23

Symposium on Insect Semiochemicals I

Lecture Hall, Carl Zeiss Straße 3, HS 2, Ground Floor

Organizers and Chairs: Stefan Schulz, John Pickett

- 14:00-14.15 **Tetsu Ando**, Tokyo University of Agric. & Technol., Japan
GC-MS and LC-MS analyses unraveling diversity of
lepidopteran communication systems
- 14.15-14.30 **Ales Svatos**, MPI for Chemical Ecology, Jena, Germany
MALDI-TOF MS imaging of semiochemicals in plant
and insect tissues
- 14.30-14.45 **Linda Field**, Rothamsted Research, Harpenden, Great Britain
Prospects for coupling new molecular approaches to
chemical analysis
- 14.45-15.00 **Joachim Ruther**, Free University of Berlin, Germany
Biosynthesis of 5-hydroxy-4-decanolide, the male sex
pheromone of the parasitoid *Nasonia vitripennis*
- 15.00-15.15 **Marie Pettersson**, KTH – The Royal Institute of Technology,
Stockholm, Sweden
Volatiles of the spruce shoot aphid and its host Norway
spruce. A method to identify the diastereomers of
nepetalactone by mass spectrometry
- 15.15-15.30 **Ylva Hillbur**, Swedish University of Agricultural Sciences,
Alnarp, Sweden
Identification of sex pheromone components of the Hessian fly
- 15.30-15.45 **Claude Wicker-Thomas**, Laboratoire NAMC,
Université Paris Sud, Orsay, France
Genes involved in pheromone biosynthesis and
sexual isolation in *Drosophila*
- 15.45-16.00 **Jean-Luc Boevé**, Royal Belgian Institute of Natural Sciences,
Bruxelles, Belgium
Defence strategies in argid sawfly larvae
- 16:00-16:30 Coffee Break
- 16:30-17:30 **SILVERSTEIN-SIMEONE AWARD LECTURE**
Walter Leal, University of California, Davis, USA
Molecular Basis of Pheromone Reception
- 18:00-19:00 Dinner Time
- 19.00 **Thomas Hartmann**, Technical University of Braunschweig, Germany
A seedling yields fruits: origin of chemical ecology 120 years
ago in Jena
- 20:00-22:00 **POSTER SESSION I** (Beer and Pretzel)

PROGRAM

PROGRAM

Monday, July 23

Workshop on statistical methods for the analysis
of complex metabolic profiles

Lecture Hall, Carl Zeiss Straße 3, SR 207, 2. Floor

Organizer: Nicole van Dam

with contributions of

- 14.00-14.10 **Nicole van Dam**, Netherlands Institute of Ecology, Heteren, Netherlands
Introduction to the topic
- 14.10-14.50 **Margit Leitner**, MPI for Chemical Ecology, Jena, Germany
How to get a grip on volatile data: finding patterns in volatile blends
- 14.50-15.30 **Jeroen Jansen**, Netherlands Institute for Ecology, Heteren, Netherlands
Going the distance: Multivariate data analysis for extracting phytochemically relevant information from complex metabolomics data
- 15.30-16.00 **Discussion by speakers and participants**
Whether and how will metabolomic techniques and multivariate analyses advance the field of chemical ecology?

Tuesday, July 24

Symposium on Induced Plant Defenses I

Lecture Hall, Carl Zeiss Straße 3, HS 2, Ground Floor

Organizers and Chairs: Ian Baldwin, Junji Takabayashi

- 8.30-9.00 **Linda Walling**, University of California, Riverside, USA
Silverleaf whiteflies induce salicylic acid defenses and suppress effectual jasmonic acid defenses
- 9.00-9.15 **Kenji Matsui**, University of Yamaguchi, Japan
Molecular aspects of plant induced defense against insects and pathogen
- 9.15-9.30 **Marco D'Alessandro**, University of Neuchatel, Switzerland
Endophytic bacteria and plant defence
- 9.30-9.45 **Massimo Maffei**, University of Turino, Italy
Early events in plant-insect interactions
- 9.45-10.00 **Hans Alborn**, United States Department of Agriculture, Gainesville, USA
Novel fatty acid-related compounds from the American bird grasshopper, *Schistocerca americana*, elicit plant volatiles
- 10.00-10.30 Coffee Break
- 10.30-10.45 **Monika Hilker**, Free University of Berlin, Germany
Plant defense against insect egg deposition
- 10.45-11.00 **Roland Mumm**, Marcel Dicke, Wageningen University, Netherlands
Insect-plant interactions: from genes to behaviour
- 11.00-11.15 **Martin Heil**, University of Duisburg-Essen, Germany
Lima bean: Multiple interactions among direct and indirect defences
- 11.15-11.30 **Gen Arimura**, MPI for Chemical Ecology, Jena, Germany
Nocturnal herbivore damage: jasmonate signaling, gene regulation and light-dependent ocimene emission
- 11.30-11.45 **Inga Mewis**, Humboldt University of Berlin, Germany
Varying glucosinolate profiles in *Arabidopsis* influence plant defense against generalist and specialist insect herbivores differently
- 11.45-12.00 **Anke Steppuhn**, MPI for Chemical Ecology, Jena, Germany
Defensive synergism – Nicotine prevents herbivores from compensating for plant protease inhibitors
- 12:00-14:00 Lunch Break

PROGRAM

PROGRAM

Tuesday, July 24

**Lunch seminar on new tools to use
on the LTQ Orbitrap Mass Spectrometer for small molecule analysis**

Lecture Hall, Carl Zeiss Straße 3, SR 127, 1. Floor

12.00-14.00 Organizer: Thermo Fisher Scientific

Symposium on Animal Responses to Plant Secondary Metabolites I

Lecture Hall, Carl Zeiss Straße 3, HS 2, Ground Floor

Organizers and Chairs: David Heckel, Manfred Ayasse

- 14:00-14.15 **Thomas Eitz**, University of Düsseldorf, Germany
Use of plant secondary compounds by male orchid bees (Euglossini): mechanistic and evolutionary aspects of perfume collection
- 14.15-14.30 **Robert Hodgkison**, Manfred Ayasse, Elisabeth E. K. V. Kalko, C. Häberlein, Stefan Schulz, Akbar Zubaid, Thomas H. Kunz, University of Ulm, Germany
The chemical ecology of fruit bat foraging behaviour in relation to the fruit odours of bat-dispersed figs in the Palaeotropics
- 14.30-14.45 **Stefan Dötterl**, Irmgard Schäffler, University of Bayreuth, Germany
Floral scent of oil-flowers as attractant for oil-bees
- 14.45-15.00 **Heiko Vogel**, MPI for Chemical Ecology, Jena, Germany
Transcriptional responses of *Helicoverpa armigera*, a generalist herbivore, to environmental, chemical and plant-induced stress
- 15.00-15.15 **Shai Morin**, Hebrew University of Jerusalem, Israel
Metabolic gene expression and polyphagy in *Bemisia tabaci*
- 15.15-15.30 **Magali Proffit**, Centre d'Ecologie Fonctionnelle et Evolutive, Montpellier, France
Parasites escape a trap set for a mutualist: intersexual chemical mimicry in a dioecious fig deceives mutualists, but not a specific parasite of a mutualism
- 15:30-16:00 Coffee Break

Tuesday, July 24

ISCE Travel Awards

Lecture Hall, Carl Zeiss Straße 3, HS 2, Ground Floor

Chair: Angel Guerrero

- 16:00-16.10 **Maud Ferrari**, University of Saskatchewan, Saskatoon, Canada
Degradation of chemical alarm cues under natural conditions: risk assessment by larval woodfrogs
- 16.10-16.20 **Orkun Baris Kovanci**, Uludag University, Bursa, Turkey
Applied chemical ecology of the oriental fruit moth: Optimizing the use of hand-applied dispensers for mating disruption
- 16.20-16.30 **Catalina Estrada**, University of Texas, Austin, USA
The role of sex-specific pheromones in pupal-mating *Heliconius* butterflies
- 16.30-16.40 **Johannes Stökl**, University of Ulm, Germany
Consequences of hybridization on the pollinator attracting odour, genetic variation, and radiation of three *Ophrys* species on Mallorca
- 16.40-16.50 **Jeroen Jansen**, Netherlands Institute for Ecology, Heteren, Netherlands
From microscope to telescope: metabolomics to study aboveground and belowground induced responses and their ecological impact
- 16.50-17.00 **Flore Mas**, University of Basel, Switzerland
Regulation of maternal care by chemical communication in insects
- 17.00-17.10 **Petra Matouskova**, Academy of Sciences of the Czech Republic, Prague, Czech Republic
Do more with less: A complex pheromone blend in *Manduca sexta* is produced by a minimal number of desaturases
- 17.10-17.20 **Thorben Nawrath**, Technical University of Braunschweig, Germany
The biosynthesis of 2-Methylisoborneol in bacteria
- 17.20-17.30 **Josef Vuts**, Hungarian Academy of Sciences, Budapest, Hungary
Improving the field activity of the synthetic floral bait in *Cetonia a. aurata* and *Potosia cuprea* (Coleoptera: Scarabaeidae: Cetoniinae)
- 17.30-17.40 **Sandra Steiger**, University of Freiburg, Germany
The smell of parents: breeding status influences cuticular hydrocarbon pattern in the burying beetle *Nicrophorus vespilloides*
- 17.40-17.50 **Kenneth Webster**, Plant Research International, Wageningen, Netherlands
Exploiting the host-finding behaviour of thrips with colour and odour attractants: underlying principles
- 17.50-18.00 **Mohammad Mahier Uddin**, Humboldt University of Berlin, Germany
Chemical implications of crucifer crop suitability to the specialist beetle *Phaedon cochleariae* (F.)
- 18:00-19:30 Dinner Time
- 19:30-22:00 POSTER SESSION II (Beer and Pretzel)

PROGRAM

PROGRAM

Wednesday, July 25

Symposium on Microbial Interactions

Lecture Hall, Carl Zeiss Straße 3, HS 2, Ground Floor

Organizers and Chairs: Leo Eberl, Axel Brakhage

- 8:30-8.45 **Christian Hertweck**, Hans Knöll Institute, Jena, Germany
Phytopathogenic alliance of a fungus and its bacterial endosymbionts
- 8.45-9.00 **Ying Zeng**, Kunming Institute of Botany, Kunming, China
The metagenome of plant-associated microbes
- 9.00-9.15 **Md. Tofazzal Islam**, University of Göttingen, Germany
Chemical ecology of the phytopathogenic Peronosporomycete zoospores
- 9.15-9.30 **Jennifer Dean**, Penn State University, University Park, USA
Effects of the legume-rhizobia mutualism on herbivore-plant interactions
- 9.30-9.45 **Birgit Piechulla**, University of Rostock, Germany
Rhizobacterial volatiles affect the growth of fungi
- 9.45-10.00 **Elisabeth Gross**, University of Konstanz, Germany
Microbial interference with allelochemical interactions of the aquatic angiosperm *Myriophyllum spicatum* (Haloragaceae)
- 10:00 Coffee Break
- 10:30-10:45 **Anton Hartmann**, GSF – Research Center, Munich, Germany
N-Acylhomoserine lactone signaling within rhizosphere bacterial communities and signal uptake and perception by plants
- 10.45-11.00 **Barbara Schellenberg**, University of Zürich, Switzerland
Action of Syringolin A, a *P. syringae* elicitor, on plants
- 11.00-11.15 **Carsten Matz**, Technical University of Braunschweig, Germany
Microscopical battlefields: chemical defense of biofilm bacteria against eukaryotic predation
- 11.15-11.30 **Doris Engelmeier**, University of Vienna, Austria
Leaf epicuticular waxes and their host specificity to fire blight (*Erwinia amylovora*)
- 11.30-11.45 **Jürgen Gross**, University of Gießen, Germany
Phytoplasma engineer its insect vector by altering behavior and host plant odor

Wednesday, July 25

Symposium on Semiochemicals II

Lecture Hall, Carl Zeiss Straße 3, HS 8, 1. Floor

Chair: Gunnar Bergström

- 8.30-8.45 **Jeffrey Aldrich**, USDA-ARS, Beltsville, USA
A case of pheromonal eavesdropping in true bugs?
- 8.45-9.00 **Till Tolasch**, University of Hohenheim, Stuttgart, Germany
New taxonomical insights from the identification of new click beetle pheromones (Coleoptera: Elateridae)
- 9.00-9.30 **Gary Blomquist**, University of Nevada, Reno, USA
Myrcene synthase, myrcene hydroxylase (cytochrome P450) and oxidoreductases in the terminal steps in ipsdienol biosynthesis in the pine bark beetles *Ips pini* and *I. confusus*
- 9.30-9.45 **Vincent Harraca**, University of Neuchâtel, Switzerland
Sensing resources in tsetse flies
- 9.45-10.00 **Claude Everaerts**, Université de Bourgogne, Dijon, France
Taste perception and discrimination of pheromones in *Drosophila melanogaster*
- 10:00-10.30 Coffee Break

Symposium on Evolution and Adaptation I

Lecture Hall, Carl Zeiss Straße 3, HS 8, 1. Floor

Chair: Thomas Hartmann

- 10.30-11.00 **Eran Pichersky**, University of Michigan, Ann Arbor, USA
Biochemistry of plant volatiles, or how plants evolve the ability to make so many scent compounds
- 11.00-11.15 **Monika Frey**, Technical University of Munich, Germany
Indole-3-glycerol phosphate lyase: Recruitment of an enzyme of primary metabolism for secondary purposes
- 11.15-11.30 **Jan-Willem de Kraker**, MPI for Chemical Ecology, Jena, Germany
From primary to secondary metabolism: amino acid to glucosinolate biosynthesis
- 11.30-11.45 **Johannes Steidle**, University of Hohenheim, Stuttgart, Germany
Infochemical use by parasitoids of seed feeding insects: A test for the reliability-detectability concept?

PROGRAM

Wednesday, July 25

- 11.45-12.30 **Business meeting**
- 12:30-13:30 Lunch
- 14:00-18:00 **Excursions into the surroundings of Jena**
- 19:00-24:00 **Symposium Dinner**
Volkshaus Jena
- SOCIAL LECTURE**
Wittko Francke, University of Hamburg, Germany
How things developed over time
- AWARDS**
- ELECTIONS**

PROGRAM

Thursday, July 26

Lecture Hall, Carl Zeiss Straße 3, HS 2, Ground Floor

- 8:30 – 9:30 **SILVER MEDAL AWARD LECTURE**
Koji Nakanishi, Columbia University New York, USA

Symposium on Evolution and Adaptation II

Lecture Hall, Carl Zeiss Straße 3, HS 2, Ground Floor

Organizers and Chairs: Dietrich Ober, Jonathan Gershenzon

- 9:30-10:00 **May Berenbaum**, University of Illinois, Morrill Hall; USA
Wild parsnips and parsnip webworms on three continents;
when interactions go international
- 10.00-10.15 **Susanne Dobler**, University of Hamburg, Germany
Coping with cardenolides in host-plants – multiple ways
of achieving resistance by amino-acid substitutions in
the Na⁺/K⁺-ATPase
- 10.15-10.30 **Kotaro Konno**, National Institute of Agrobiological Sciences
Tsukuba, Ibaraki, Japan
Defense chemicals and proteins in mulberry latex and
enzyme level counter-adaptation of the silkworm, *Bombyx
mori*, a mulberry specialist
- 10:30-11:00 Coffee Break
- 11:00-11.15 **Astrid Groot**, MPI for Chemical Ecology, Jena, Germany
Geographic and temporal variation in premating cues of
two noctuid moths
- 11.15-11.30 **Doug Chivers**, University of Saskatchewan, Saskatoon,
Canada
Manipulating predation risk, pathogens, parasites and heavy
metal exposure to understand the ecology and evolution of
fish fear substances
- 11.30-11.45 **Christer Löfstedt**, Lund University, Sweden
Sex pheromone communication in caddisflies (Trichoptera):
analytical problems and phylogenetic perspectives
- 11.45-12.00 **Thomas Schmitt**, University of Freiburg, Germany
Evolution of specific cuticular hydrocarbon profiles in
solitary Hymenoptera

Thursday, July 26

Symposium on Induced Plant Defenses II

Lecture Hall, Carl Zeiss Straße 3, HS 8, 1. Floor

Chair: Jocelyn Millar

- 9.30-9.45 **Peter Spiteller**, Technical University of Munich, Germany
Chemical defence mechanisms of higher fungi
- 9.45-10.00 **Carsten Thoms**, University of Guam, USA
Activated chemical defense in sponges
- 10.00-10.15 **Naoko Yoshinaga**, University of Kyoto, Japan
Importance of glutamine moiety in volicitin
- 10.15-10.30 **Daniel Hare**, University of California, Riverside, USA
Induced volatile organic compounds produced by trichome phenotypes of *Datura wrightii*
- 10:30-11:00 Coffee Break

Symposium on Animal Responses to Plant Secondary Metabolites II

Lecture Hall, Carl Zeiss Straße 3, HS 8, 1. Floor

Chair: Jim Tumlinson

- 11.00-11.15 **Torsten Meiners**, Free University of Berlin, Germany
Opposing signals: How parasitoids deal with conflicting environmental information
- 11.15-11.30 **Rob van Tol**, Plant Research International, Wageningen, Netherlands
Female aphid-induced plant volatiles trigger specific attraction of male *Dysaphis* spp. to the sex pheromone
- 11.30-11.45 **Andreas Jürgens**, Hort Research, Lincoln, New Zealand
Floral volatiles in Apocynaceae-Asclepiadoideae adapted to carrion flies, bees and moths as pollinators
- 11.45-12.00 **Claus Tittiger**, University of Nevada, Reno, USA
Resin Detoxification and Pheromone Production by cytochromes P450 in Pine Bark Beetles
- 12.00-12.15 **Farewell**
- 12.30 Lunch

- P 001 **A male-produced sex pheromone from the neotropical redbanded stink bug, *Piezodorus guildinii* (Westwood.) (Hemiptera: Pentatomidae)**
Moraes, M. C. B., Brasilia/BR, Millar, J. G., Riverside/USA, Laumann, R. A., Brasilia/BR, Borges, M., Brasilia/BR
- P 002 **Influence of apple genotypes on leaf chemistry**
Vogler, U., Zürich/CH, Rott, A. S., Zürich/CH, Dorn, S., Zürich/CH
- P 003 **Changes in the volatile profile of soybean after herbivory and oviposition damage caused by *Euschistus heros*, and influence on the behaviour of the parasitoid *Telenomus podisi*.**
Borges, M., Brasilia/BR, Laumann, R. A., Brasilia/BR, Pareja, M., Brasilia/BR, Moraes, M. C. B., Brasilia/BR
- P 004 **Inter- and intraspecific variation in defensive compounds produced by five Neotropical stink bug species (Hemiptera: Pentatomidae)**
Borges, M., Brasilia/BR, Pareja, M., Brasilia/BR, Moraes, M. C. B., Brasilia/BR, Laumann, R. A., Brasilia/BR
- P 005 **Exploitation of Sex Pheromone in Monitoring Browntail Moth**
Khrimian, A., Beltsville/USA, Lance, D. R., Otis/USA, Mastro, V. C., Otis/USA
- P 006 **Autogenous synthesis of defensive compounds in *Chrysomela lapponica* from Kazakhstan**
Tolzin-Banasch, K., Jena/D, Boland, W., Jena/D, Pasteels, J. M., Brussels/B
- P 007 ***cis*-Jasmone induces accumulation of defence compounds in wheat, *Triticum aestivum***
Moraes, M. C. B., Brasilia/BR, Birkett, M. A., Haperden/UK, Bromilow, R., Haperden/UK, Dufour, S., Haperden/UK, Picket, J. A., Haperden/UK
- P 008 **Chemical Mimicry and Host Entering Behavior of the Social Parasitic Bumble Bee *Bombus vestalis***
Sramkova, A., Ulm/D, Schröder, S., Bonn/D, Wittmann, D., Bonn/D, Ibarra, F., Hamburg/D, Francke, W., Hamburg/D, Ayasse, M., Ulm/D
- P 009 **Impact of UV radiation on crop plants and their pests**
Kuhlmann, F., Würzburg/D, Müller, C., Bielefeld/D
- P 010 **Pollinator attracting scent of the wasp-flower *Epipactis helleborine* (Orchidaceae)**
Brodmann, J., Ulm/D, Twele, R., Hamburg/D, Francke, W., Hamburg/D, Ayasse, M., Ulm/D
- P 011 **Sympatric Speciation in the Sexually Deceptive Orchids *Ophrys chestermanii*, *O. normanii* and *O. tenthredinifera***
Gögler, J., Ulm/D, Stöckl, J., Ulm/D, Sramkova, A., Ulm/D, Twele, R., Hamburg/D, Francke, W., Hamburg/D, Cozzolino, S., Napoli/I, Ayasse, M., Ulm/D

LIST OF POSTERS

- P 012 **Composition of frontal gland secretion in *Prorethirus simplex* (Isoptera: Rhinotermitidae): natural castes and artificial intercastes**
Sobotnik, J., Prague/CZ, Piskorski, R., Prague/CZ, Hanus, R., Prague/CZ, Vasickova, S., Prague/CZ, Cvacka, J., Prague/CZ, Svatos, A., Jena/D, Valterová, I., Prague/CZ
- P 013 **A female sex pheromone mediates mate finding of the European hornet**
Ruther, J., Berlin/D, Spiewok, S., Berlin/D, Schmolz, E., Berlin/D
- P 014 **AOP gene expression in *Arabidopsis thaliana* (L.) – Impact on glucosinolate profile and insect resistance**
Rohr, F., Berlin/D, Ulrichs, C., Berlin/D, Gershenson, J., Jena/D, Mewis, I., Berlin/D
- P 015 **Phenolics in the bark of Norway spruce (*Picea abies*): Chemical identification, cellular localization, and function in antifungal defense**
Li, S.-H., Jena/D, Niu, X.-M., Jena/D, Schneider, B., Jena/D, Gershenson, J., Jena/D
- P 016 **Terpenoid accumulation in the foliage of cotton after mechanical damage and herbivory**
Opitz, S., Jena/D, Gershenson, J., Jena/D
- P 017 **Cuticular hydrocarbons as chemical tools to identify Calliphoridae (Diptera) of forensic importance**
Trigo, J. R., Campinas/BR, Ropelli, A., Campinas/BR, Thyssen, P. J., Campinas/BR, Linhares, A. X., Campinas/BR
- P 018 **A convenient and highly efficient preparative GC system using short sections of megabore column as sample collection traps**
Nojima, S., Raleigh/USA, Schal, C., Raleigh/USA, Apperson, C., Raleigh/USA
- P 020 **Identification and Synthesis of the Sex Pheromone of the Pacific Mealybug, *Planococcus minor* (MASKELL)**
Ho, H. Y., Taipei/RC, Chuang, T. H., Taipei/RC, Hung, C. C., Taichung/RC, Wang, W. L., Taichung/RC
- P 021 **Age-Dependent Changes in the Exocrine Glands Secretions of *Bombus terrestris* Queens (Hymenoptera: Apidae, Bombini)**
Urbanová, K., Prague/CZ, Cahlíková, L., Prague/CZ, Hovorka, O., Prague/CZ, Ptáček, V., Brno/CZ, Valterová, I., Prague/CZ
- P 022 **Changes in the composition of the labial gland secretion during the life of *Bombus lucorum* males**
Zacek, P., Prague/CZ, Jiri, K., Prague/CZ, Blanka, K., Prague/CZ, Irena, V., Prague/CZ
- P 023 **Matching plant defence syndromes with performance of a specialist herbivore**
Müller, C., Bielefeld/D, Travers-Martin, N., Würzburg/D

LIST OF POSTERS

- P 024 **Fatty acids as precursors of aliphatic compounds in bumblebees pheromone**
Krafkova, E., Prague/CZ, Cvacka, J., Prague/CZ, Hovorka, O., Prague/CZ, Kindl, J., Prague/CZ, Jiros, P., Prague/CZ, Nekola, A., Prague/CZ, Valterová, I., Prague/CZ
- P 025 **Iridoid biosynthesis in leaf beetle larvae – regulation of HMG-CoA-reductase by biosynthesis metabolites and plant derived compounds**
Frick, S., Jena/D, Schmidt, A., Jena/D, Kuhnert, M., Jena/D, Büchler, R., Jena/D, Boland, W., Jena/D, Burse, A., Jena/D
- P 026 **Reinvestigation of the sex pheromone of the beet armyworm *Spodoptera exigua***
Quero, C., Barcelona/E, Acín, P., Barcelona/E, Guerrero, A., Barcelona/E, Rosell, G., Barcelona/E
- P 027 **Triacylglycerols Extracted from Fat Bodies of Bumblebees – Aspect of the Age**
Jiros, P., Prague/CZ, Cvacka, J., Prague/CZ, Krafková, E., Prague/CZ, Kindl, J., Prague/CZ, Valterová, I., Prague/CZ
- P 028 **NMR-based metabolomic analysis of *Arabidopsis thaliana* Col. transformed with a polyketide synthase type III from *Wachendorfia thyrsiflora***
Brand, S., Jena/D, Lenz, A., Jena/D, Schneider, B., Jena/D
- P 029 **The fragrance of Cabbage White butterflies**
Yildizhan, S., Braunschweig/D, Schulz, S., Braunschweig/D, Ayasse, M., Ulm/D, van Loon, J., Wageningen/NL
- P 030 **Parasitoid Response to Progressive Mechanical Plant Wounding**
Connor, E. C., Zurich/CH, Rott, A. S., Zurich/CH, Samietz, J., Zurich/CH, Dorn, S., Zurich/CH
- P 031 **Innate orientation of European corn borer neonate larvae towards host and non-host plants odors**
Piesik, D., Bydgoszcz/PL, Marion-Poll, F., Versailles/F, Rochat, D., Versailles/F
- P 032 **Description and characterization of channel-forming compounds from the regurgitate of lepidopteran larvae**
Maischak, H., Jena/D, Grigoriev, P. A., Pushino/RUS, Mithöfer, A., Jena/D, Boland, W., Jena/D
- P 033 **Different 'dialects' in different zygomycetes?**
Richter, M., Jena/D, Schachtschabel, D., Jena/D, Boland, W., Jena/D
- P 034 **Using differential 2-D protein gel analysis to identify detoxification enzymes in herbivorous caterpillars**
Schramm, K., Jena/D, Wittstock, U., Braunschweig/D
- P 035 **Eicosanoid derived pheromones in brown algae**
Rui, F., Jena/D, Boland, W., Jena/D

LIST OF POSTERS

- P 036 **Efficient incorporation of unsaturated fatty acids to the fatty acid-amides in *Spodoptera litura***
Aboshi, T., Kyoto/J, Yoshinaga, N., Kyoto/J, Noge, K., Kyoto/J, Nishida, R., Kyoto/J, Mori, N., Kyoto/J
- P 037 **Sex pheromone of *Lysiphlebus testaceipes* (Hymenoptera Braconidae)**
Cangelosi, B., Palermo/I, Lo Genco, A., Palermo/I, Lo Pinto, M., Palermo/I, De Pasquale, C., Palermo/I, Colazza, S., Palermo/I
- P 038 **Hymenoptera egg parasitoids use hydrocarbons present on lepidopteran scales and on pentatomid bug footprints to discriminate between host genders**
Colazza, S., Palermo/I, Peri, E., Palermo/I, Salerno, G., Perugia/I, Conti, E., Perugia/I, Bin, F., Perugia/I
- P 039 **Pheromone baited traps as a monitoring technique for the neotropical red-shouldered stink bug, *Thyanta perditor* (Fabricius) (Hemiptera: Pentatomidae)**
Lauman, R. A., Brasília/BR, Moraes, M. C. B., Brasília/BR, Khirman, A., Baltimore/USA, Borges, M., Brasília/BR
- P 040 **Field application of *E-2-hexenal*: A kairomone for egg parasitoids (Hymenoptera: Scelionidae) management**
Laumann, R. A., Brasília/BR, Moraes, M. C. B., Brasília/BR, Correa-Ferreira, B. S. S., Londrina/BR, Caetano, L. D., Brasília/BR, Vieira, A. R. A., Brasília/BR, Pires, C. S. S., Brasília/BR, Borges, M., Brasília/BR
- P 041 **Utilization of Secondary metabolite of weed *Lantana camara* L. in drug development: Design of antitumor lantadenes**
Sharma, M., Chandigarh/IND, Sharma, P. D., Chandigarh/IND, Bansal, M. P., Chandigarh/IND, Singh, J., Jammu/IND
- P 042 **Phenylphenalenone biosynthesis – origin of the OH-functions of phenylphenalenones**
Munde, T., Jena/D, Schneider, B., Jena/D
- P 043 **Phloem Sucking Disturbance of the Brown Planthopper in the Resistant Rice Cultivars**
Seo, B. Y., Suwon/ROK, Jung, J. K., Suwon/ROK
- P 044 **Synthesis of Minor Components from Headspace Extracts of the Storage Mite *Chortoglyphus arcuatus***
Barcari, E., Braunschweig/D, Schulz, S., Braunschweig/D, Steidle, J. L. M., Stuttgart/D
- P 045 **From food to secretion: The sequestration of plant derived glucosides in leaf beetle larvae**
Discher, S., Jena/D, Tolzin-Banasch, K., Jena/D, Burse, A., Jena/D, Heinemann, S. H., Jena/D, Boland, W., Jena/D

LIST OF POSTERS

- P 046 **Lowering of trapping efficiency in monitoring of 2nd generation of adult of the Asian corn borer, *Ostrinia furnacalis*, by sex pheromone trap in a maize field**
Jung, J. K., Suwon/ROK, Seo, B.-Y., Suwon/ROK, Seong, K. Y., Suwon/ROK, Park, C. G., Suwon/ROK
- P 047 **Root exudation: identification of plant secondary metabolites involved in the plant defense mechanism**
Daolio, C., Jena/D, Schneider, B., Jena/D
- P 048 **Sex pheromone communication in two closely related leaf-mining species *Phyllonorycter insignitella* (Zeller) and *Ph. nigrescentella* (Logan) (Lepidoptera: Gracillariidae)**
Mozuraitis, R., Stockholm/S
- P 049 **Rapid Hydrolysis of *N-Acylhomoserines* in the Gut of *Spodoptera Larvae***
Funke, M., Jena/D, Mahobia, V., Jena/D, Büchler, R., Jena/D, Boland, W., Jena/D
- P 050 **Flower odour of *Silene otites* (Cayophyllaceae) as attractant for mosquitoes**
Jhumur, U.S., Bayreuth/D, Dötterl, S., Bayreuth/D, Jürgens, A., Lincoln/NZ
- P 051 **ChromatoProbe: A powerful device for qualitative and quantitative analyses of volatile organic compounds**
Dötterl, S., Bayreuth/D, Weibchen, G., Darmstadt/D, Jürgens, A., Lincoln/NZ
- P 052 **Allelopathic Interference of *Melilotus neapolitana* on Coexisting Herbaceous Plants of Mediterranean *macchia***
Izzo, A., Caserta/I, Esposito, A., Caserta/I, Fiorentino, A., Caserta/I, D'Ambrosca, B., Caserta/I, Cefarelli, G., Caserta/I, Golino, A., Caserta/I, Caporaso, S., Caserta/I, Monaco, P., Caserta/I
- P 053 **Phenylphenalenones in *Musa acuminata* defense**
Jitsaeng, K., Jena/D, Phillips, M., Jena/D, Schneider, B., Jena/D
- P 054 **Allelopathic inhibitors of soil nitrification from *Arbutus unedo* living in a monospecific Mediterranean woodland**
Natale, A., Caserta/I, Fiorentino, A., Caserta/I, Castaldi, S., Caserta/I, Canfora, A., Caserta/I, D'Ambrosca, B., Caserta/I, Messere, A., Caserta/I, Miglietta, F., Firenze/I, Cotrufo, M. F., Caserta/I
- P 055 **Biosynthesis and function of polyunsaturated aldehydes in diatoms**
Barofsky, A., Jena/D, Vidoudez, C., Jena/D, Pohnert, G., Jena/D
- P 056 **Altered chemical composition of pheromone gland extract of *Erannis bajaria* (Lepidoptera: Geometridae)**
Goller, S., Braunschweig/D, Szöcs, G., Budapest/H, Schulz, S., Braunschweig/D

LIST OF POSTERS

- P 057 **Phytohormones in the interaction between *Glomus intraradices* and *Nicotiana attenuata* – who is important?**
Riedel, T., Jena/D, Baldwin, I. T., Jena/D, Groten, K., Jena/D
- P 058 **Caste specific egg surface volatiles and their possible communicative function in a stingless bee, *Melipona beecheii* (Hymenoptera, Apidae, Meliponini)**
Jarau, S., Ulm/D, Twele, R., Hamburg/D, van Veen, J. W., Heredia/CR, Aguilar, I., Heredia/CR, Francke, W., Hamburg/D, Ayasse, M., Ulm/D
- P 059 **Formation of phenylphenalenones in Musaceae after *Cosmopolites sordidus*-attack**
Hölscher, D., Jena/D, Schneider, B., Jena/D, Heckel, D., Jena/D
- P 060 **How are new plant natural products evolving?**
Saito, S., Copenhagen/DK, Engelbrecht, J., Copenhagen/DK, Olsen, C. E., Copenhagen/DK, Moller, B. L., Copenhagen/DK, Bak, S., Copenhagen/DK
- P 061 **Multiple roles of the sesquiterpene caulerpenyne in wound closure and chemical defense**
Weißflog, J., Jena/D, Adolph, S., Jena/D, Pohnert, G., Jena/D
- P 062 **More than a spice: The effects of capsaicin from hot pepper on insect development**
Ahn, S.-J., Jena/D, Heckel, D. G., Jena/D
- P 063 **Biopolymer plug formation in the wound response of the unicellular alga *Dasycladus vermicularis***
Welling, M. A., Jena/D, Ross, C., Ft. Peirce/USA, Pohnert, G., Jena/D, Johnsson, K., Lausanne/CH
- P 064 **New pheromone components predicted from the biosynthetic pathway in *Blattella germanica* and basis for courtship of nymphs and heterospecifics**
Eliyahu, D., Raleigh/USA, Nojima, S., Raleigh/USA, Mori, K., Tokyo/J, Schal, C., Raleigh/USA
- P 065 **Seed odor mediates an obligate ant-plant mutualism in Amazonian rainforest**
Youngsteadt, E., Raleigh/USA, Nojima, S., Raleigh/USA, Schal, C., Raleigh/USA, Häberlein, C., Braunschweig/D, Shulz, S., Braunschweig/D
- P 066 **Assessment of oviposition site quality by predatory hoverflies: effects of larval tracks**
Almohamad, R., Gembloux/B, Verheggen, F., Gembloux/B, Francis, F., Gembloux/B, Lognay, G., Gembloux/B, Haubruge, E., Gembloux/B
- P 067 **Calling behaviour and male response towards sex pheromone in *Condylorrhiza vestigialis* (Lepidoptera: Crambidae)**
Zarbin, P. H. G., Curitiba/BR, Ambrogi, B. G., Curitiba/BR, Fonseca, M. G., Curitiba/BR, Coracini, M. D. A., Curitiba/BR, Moreira, F. G., Curitiba/BR

LIST OF POSTERS

- P 068 **Olfactory Response of the egg-parasitoid *Telenomus remus* Nixon (Hymenoptera: Scelionidae) to egg-induced maize plants**
Penaflor, M. F. G. V., Piracicaba/BR, Bento, J. M. S., Piracicaba/BR
- P 069 **Effect of sex pheromone dose and time-action on male capture of citrus leaf miner *Phyllocnistis citrella*: implications for monitoring**
Parra-Pedrazzoli, A. L., Piracicaba/BR, Leal, W. S., Davis/USA, Vilela, E. F., Vicoso/BR, Mendonca, M. C., Aracaju/BR, Bento, J. M. S., Piracicaba/BR
- P 070 **Different attractiveness of *Solanum tuberosum* (Solanaceae) volatiles to the potato tuber moth *Phthorimaea operculella* (Gelechiidae) and the predator *Orius insidiosus* (Anthocoridae)**
Arab, A., Piracicaba/BR, Trigo, J. R., Campinas/BR, Lourencao, A. L., Campinas/BR, Santos, A. M., Piracicaba/BR, Ramos, F., Piracicaba/BR, Bento, J. M. S., Piracicaba/BR
- P 071 **Semiochemicals mediate host choice in the phoretic relationship between the mite *Poecilochirus carabi* and carrion beetles**
Nehring, V., Freiburg/D, Müller, J. K., Freiburg/D
- P 072 **Plant volatiles affect behavioral responses of grapevine moth males, *Lobesia botrana*, to their sex pheromone**
von Arx, M., Neuchâtel/CH, Guerin, P. M., Neuchâtel/CH
- P 073 **Mechanisms of olfactory preference: Divergence of pheromone attraction in male moths**
Hillier, N. K., Salt Lake City/USA, Vickers, N. J., Salt Lake City/USA, Estock, M., Raleigh/USA, Katz, R., Raleigh/USA, Gould, F.V.L., Raleigh/USA
- P 074 **Z-ocimene, but not alkaloids, deters oviposition of the specialist moth *Agonopterix alstroemeriana* on *Conium maculatum***
Castells, E., Barcelona/E, Berenbaum, M., Urbana/USA
- P 075 **Metabolic profiling of anthocyanines in *Arabidopsis thaliana* using high-efficiency Ion-Mobility (IMS) based separations on the Synapt High Definition MS System**
Wiegand, M., Eschborn/D, Svatos, A., Jena/D, Lock, R., Manchester/GB, Tomczyk, N., Manchester/GB, DAuria, J. C., Jena/D
- P 076 **Fragrance-driven (sympatric) speciation in orchid bees?**
Zimmermann, Y., Düsseldorf/D, Quezada-Euan, J. J. G., Merida/MEX, Eitz, T., Düsseldorf/D
- P 077 **Identification and synthesis of novel spider lipids: Branched wax esters of the kleptoparasitic spider *Argyrodes elevatus***
Satya, C., Braunschweig/D, Goller, S., Braunschweig/D, Uhl, G., Bonn/D, Schulz, S., Braunschweig/D

LIST OF POSTERS

- P 078 **Metabolic profiling of anthocyanines in *Arabidopsis thaliana* using high-efficiency Ion-Mobility (IMS) based separations on the Synapt High Definition MS System**
Svatos, A., Jena/D, Lock, R., Manchester/GB, Tomczyk, N., Manchester/GB, Dauria, J. C., Jena/D
- P 079 **Proteomic study of the PBP region of four different moth species with different daylight habits**
Acin, P., Barcelona/E, Carrascal, M., Bellaterra/E, Abián, J., Bellaterra/E, Guerrero, A., Barcelona/E, Quero, C., Barcelona/E
- P 080 **GC-MS identification and electrophysiological responses of volatiles from the flatheaded woodborer, *Capnodis tenebrionis* L. (Coleoptera: Buprestidae)**
Peraba, A., Linares (Jaén)/E, Hidalgo, F., Linares (Jaén)/E, Ortiz, A., Linares (Jaén)/E
- P 081 **Functional characterization of terpene synthases from *Medicago truncatula***
Garms, S., Jena/D
- P 082 **Molecular evolution of *Senecionine-N-oxygenase* of insects adapted to plants containing pyrrolizidine alkaloids**
Wang, L., Kiel/GE, Ober, D., Kiel/D
- P 083 **Evolution of Insect Defense Strategy of Leaf Beetles (*Chrysomelina*) that use Herbal Precursors**
Michalski, C., Kiel/D, Mohagheghi, H., Braunschweig/D, Ober, D., Kiel/D
- P 084 **Sexual discrimination of cuticular hydrocarbons by an ovipositing parasitoid female**
Darrouzet, E., Tours/E, Bagnères, A.-G., Tours/F, Gouix, N., Tours/F, Wipf, A., Tours/F
- P 085 **Repellency of *Ferula assafoetida* (Apiaceae) to Carob Moth, *Ectomyelois ceratoniae* (Lep.: Pyralidae) under laboratory conditions**
Barkhordar, B., Karaj/IR, Goldansaz, S. H., Karaj/IR, Talebi Jahromi, K., Karaj/IR, Ashouri, A., Karaj/IR
- P 086 **Response of red palm weevil *Rhynchophorus ferrugineus* (Col.: Dryophthoridae) to its aggregation pheromone under laboratory conditions.**
Poorjavad, N., Karaj/IR, Goldansaz, S. H., Karaj/IR, Avandfaghini, A., Karaj/IR
- P 087 **Finding the genetic basis of resistance to the *Cydia pomonella* granulovirus (CpGV) in two *Cydia* moths**
Gund, N. A., Jena/D, Groot, A. T., Jena/D, Reineke, A., Geisenheim/D, Zebitz, C. P. W., Stuttgart/D, Heckel, D. G., Jena/D
- P 088 **Potential of infochemicals to manipulate natural enemies of aphids in cereal and potatoes**
Goldansaz, S. H., Karaj/IR, McNeil, J. N., London/CDN

LIST OF POSTERS

- P 089 **Digestive physiology of generalist and specialist *Lepidoptera***
Preiss, S., Jena/D, Pauchet, Y., Jena/D, Courtiade, J., Jena/D, Soerensen, B., Jena/D, Vogel, H., Jena/D, Heckel, D. G., Jena/D
- P 090 **The responses of *Picea abies* (L.) Karst clones subjected to the attack of *Heterobasidion parviporum* (L.) Karst.) and different watering regimes**
Michelozzi, M., Firenze/I, Madmony, A., Rehovot/IR, Zamponi, L., Firenze/I, Capretti, P., Firenze/I, Colom, R. M., Florence/I
- P 091 **Molecular basis of olfactory specialization in *Drosophila melanogaster* siblings**
Lavista-Llanos, S., Jena/D, Stensmyr, M. C., Jena/D, Hansson, B. S., Jena/D
- P 092 **Do ants use olfactory landmarks?**
Knaden, M., Jena/D, Steck, K., Jena/D, Hansson, B., Jena/D
- P 093 **Enantiomeric indifference in a pheromone-kairomone system of two threatened saproxylic beetles, *Osmoderma eremita* and *Elatér ferrugineus***
Svensson, G. P., Lund/S, Larsson, M. C., Alnarp/S
- P 094 **Role of Primary Symbionts on Alarm Pheromone Production and Relation with Proteome Patterns of Aphid with or without Symbiotic Bacteria**
Verheggen, F.J., Gembloux/B, Francis, F., Gembloux/B, Haubruge, E., Gembloux/B
- P 095 **Olfactory responses of the multicolored Asian lady beetle, *Harmonia axyridis* to aphid and host plant volatile releases**
Alhemdi, A., Gembloux/B, Francis, F., Gembloux/B, Haubruge, E., Gembloux/B
- P 097 **Characterization of fatty acyl-coA reductases involved in the sex pheromone biosynthesis of the European corn borer, *Ostrinia nubilalis* (Lepidoptera: Crambidae)**
Lassance, J.-M., Lund/S, Löfstedt, C., Lund/S
- P 098 **Photochemically prepared stilbenoid analogs as insect ecdysone receptor antagonists**
Harmatha, J., Prague/CZ, Vokac, K., Prague/CZ, Moravcová, L., Prague/CZ, Kolouchová, I., Prague/CZ, Smidrkal, J., Prague/CZ
- P 099 **Volatile compounds produced by the onion fly, *Delia antiqua* (Diptera: Anthomyiidae)**
Bergmann, J., Valparaiso/RCH, Francke, W., Hamburg/D

LIST OF POSTERS

- P 100 ***Leucoma candida* males attracted to the same stereoisomer of leucomalure in Japan, as *L. salicis* males in Hungary**
Scocs, G., Budapest/H, Kamata, N., Tokyo/J, Tuda, M., Fukuoka/J, Naka, H., Osaka/J, Mori, K., Chiba/J, Molnar, B., Budapest/H
- P 101 **Transcriptional and Biochemical Signatures of Speciation in Two Closely Related Alpine Cress of Aotearoa**
Voelckel, C., Palmerston North/NZ, Heenan, P., Lincoln/NZ, Jansen, B., Auckland/NZ, Reichelt, M., Jena/DE, Lockhart, P., Palmerston North/NZ
- P 102 **The influence of herbivory on VOC emission from floral and vegetative tissue of *Nicotiana suaveolens***
Piechulla, B., Rostock/D, Effmert, U., Rostock/D, Dinse, C., Rostock/D
- P 103 **Sexual communication of a termite *Prorethia simplex* (Isoptera: Rhinotermitidae)**
Hanus, R., Prague/CZ, Luxová, A., Prague/CZ, Sobotník, J., Prague/CZ, Kalinová, B., Prague/CZ, Valterová, I., Prague/CZ, Jiros, P., Prague/CZ, Bordereau, C., Dijon/F
- P 104 **Identification of the Female Sex Pheromone of the Locust Bean Midge, *Dasineura gleditchiae* (Diptera: Cecidomyiidae)**
Molnár, B. P., Budapest/H, Kárpáti, Z., Budapest/H, Hall, D. R., Chatham Maritime/G, Scöcs, G., Budapest/H
- P 105 **A male sex pheromone in the scorpionfly *Panorpa germanica* (Mecoptera, Panorpidae)**
Kock, D., Bonn/D, Ruther, J., Berlin/D, Sauer, K. P., Bonn/D
- P 106 **The floral carboxyl methyltransferases from Solanaceae**
Krohn, K., Rostock/D, Feike, J., Rostock/D, Piechulla, B., Rostock/D
- P 107 **Temporal synchronization of ethylene emission, ACC oxidase and SAM cycle gene expression in *N. suaveolens* flowers**
Dreschler, K., Rostock/D, Roeder, S., Ann Arbor/USA, Piechulla, B., Rostock/D
- P 108 **Simultaneous synthesis of floral scent terpenoids by the 1,8-cineole synthase of *Nicotiana suaveolens***
Hartmann, A.M., Rostock/D, Roeder, S., Ann Arbor/USA, Effmert, U., Rostock/D, Piechulla, B., Rostock/D
- P 109 **Recording behavioural responses of grapevine moth larvae *Lobesia botrana* to host plant volatiles on a locomotion compensator servosphere**
Becher, P. G., Neuchâtel/CH, Guerin, P. M., Neuchâtel/CH
- P 110 **Olfactory recognition of host plants in the absence of host-specific volatile compounds**
Webster, B., Harpenden/GB, Bruce, T. J. A., Harpenden/GB, Hardie, J., Ascot/GB, Pickett, J. A., Harpenden/GB

LIST OF POSTERS

- P 111 **Nest specific information in the trail pheromone of a stingless bee, *Trigona corvina* (Hymenoptera, Apidae, Meliponini)**
Dambacher, J., Ulm/D, Jarau, S., Ulm/D, Twele, R., Hamburg/D, Aguilar, I., Heredia/CR, Francke, W., Hamburg/D, Ayasse, M., Ulm/D
- P 112 **Redox equilibria and toxicity: Interaction of secondary metabolites with living organisms**
Chobot, V., Vienna/A, Huber, C., Vienna/A, Trettenhahn, G., Vienna/A, Hadacek, F., Vienna/A
- P 113 **A Maize (*E*)- β -Caryophyllene Synthase Attracts Herbivore Enemies Towards Different Herbivores Above and Below Ground**
Degenhardt, J., Jena/D, Koellner, T. G., Jena/D, Held, M., Neuchatel/CH, Lenk, C., Jena/D, Hiltbold, I., Neuchatel/CH, Turlings, T. C. J., Neuchatel/CH, Gershenzon, J., Jena/D
- P 114 **Evaluation of Chemical Communication in the Sexual Behavior of *Loxosceles intermedia***
Marques, F. A., Curitiba/BR, Fontana, J. D., Curitiba/BR, Delay, C. E., Curitiba/BR, Sales Maia, B. H. L. N., Curitiba/BR, Fischer, M. L., Curitiba/BR, Ramires, E. N., Curitiba/BR, Marques-da-Silva, E., Curitiba/BR, Schulz, S., Braunschweig/D
- P 115 **Kin recognition in the cockroach *Blattella germanica* (L.)**
Lihoreau, M., Rennes/F, Rivault, C., Rennes/F
- P 116 **Mating Disruption of the Carpenter Moth, *Cossus insularis***
Nakamura, K., Tsukuba/J, Nakanishi, T., Tokushima/J, Mochizuki, F., Joetsu/J
- P 117 **Influence of spider mite infestation on the synthesis and emission of terpenes and methyl salicylate in cotton**
Röse, U. S. R., Jülich/D, Wildt, J., Jülich/D, Kleist, E., Jülich/D
- P 118 **Eavesdropping Ants in an Obligate Insect-Plant Mutualism**
Ranganathan, Y., Bangalore/IND, Borges, R. M., Bangalore/IND
- P 119 **Aggregative response and upwind flight behavior of a bark-beetle predator, toward prey pheromones alone or associated to α pinene**
Costa, A., Carbondale/USA, Reeve, J. D., Carbondale/USA
- P 120 **The Role of Herbivore-Induced Plant Volatiles in Biological Control: a Journey from Lab to Field**
Williams, L., Reno/USA, Castle, S., Moscow/USA, Rodriguez-Saona, C., Chatsworth/USA, Zhu, S., Norman/USA, Quinlan, R., Reno/USA, MontBlanc, E., Reno/USA
- P 121 **The flight of the European grape berry moth to its pheromone is affected by plant volatiles**
Büsser, D., Neuchâtel/CH, Guerin, P. M., Neuchâtel/CH
- P 122 **Pheromonal communication in European pest click beetles (Coleoptera: Elateridae): overview of research of the past decade**
Tóth, M., Budapest/H, Furlan, L., Padua/I

LIST OF POSTERS

- P 123 **Oviposition preference: Does mother really know best?**
Heckel, D., Jena/D, Liu, Z., Jena/D, Scheirs, J., Jena/D
- P 124 **Attraction of Andean Potato Weevils to Volatiles from Host Plants**
Hall, D.R., Chatham Maritime/GB, Downham, M. C. A., Chatham Maritime/GB, Farman, D. I., Chatham Maritime/GB, Calderon, R., Cochabamba/BOL, Crespo, L., Cochabamba/BOL, Franco, J., Cochabamba/BOL, Alcazar, J., Lima/PE, Rios, A., Lima/PE
- P 125 **Plant derived compounds against Formosan Subterranean Termites (*Coptotermes Formosanus*)**
Meepagala, K., University/USA, Osbrink, W., New Orleans/USA, Purcaro, R., Napoli/I, Sturtz, G., University/USA, Burandt, C. L., University/USA, Lax, A. R., University/USA, Duke, S. O., University/USA
- P 126 **Collembola behaviour during interspecific basidiomycete mycelial interactions**
Müller, C. T., Cardiff/GB, Rotheray, T. D., Cardiff/GB, Jones, T. H., Cardiff/GB, Boddie, L., Cardiff/GB
- P 127 **Prey chemical defence as a means of quantifying natural predation: laboratory tests using GC-MS of ladybird alkaloids (Coleoptera: Coccinellidae)**
Sloggett, J. J., Lexington/USA, Obrycki, J. J., Lexington/USA, Haynes, K. F., Lexington/USA
- P 128 **Effects of nitrogen availability on tritrophic interactions in soybean**
Winter, T. R., Würzburg/D, Rostás, M., Würzburg/D
- P 129 **Effect of a potential biocontrol agent of apple powdery mildew on *Cydia pomonella* egg laying and role of the phylloplane primary metabolites in this interaction**
Alaphilippe, A., San Michele All'Adige/I, Inra, D. S., Versailles/F, Aro, E. Y., Bet Dagan/IL, Gessler, C., Zurich/CH
- P 130 **Chemical communication in the plankton: complex interactions involving the red tide dinoflagellate, *Karenia brevis***
Prince, E. K., Atlanta/USA, Myers, T. L., Atlanta/USA, Kubanek, J., Wilmington/USA
- P 131 **How to use a general cue to find a specific resource: potential role of volatile concentration in prey location by ground dwelling predators of the cabbage root fly**
Ferry, A., Rennes/F, Dugravot, S., Rennes/F, Christides, J. P., Tours/F, Auger, J., Tours/F, Bagnères, A. J., Tours/F, Poinot, D., Rennes/F, Cortesero, A. M., Rennes/F
- P 132 **Cues and mechanisms of kin recognition in a coleopteran parasitoid larvae**
Lizé, A., Rennes/F, Poinot, D., Rennes/F, Bagnères, A. J., Tours/F, Cortesero, A. M., Rennes/F

LIST OF POSTERS

- P 133 **Potential ecological costs of using the 'Push-Pull' technique for pest control in tritrophic systems**
McNeil, J. N., London/CDN, Brodeur, J., Montreal/CDN
- P 134 **Evaluation of Sex Pheromone as a Tool for Cocoa Pod Borer Pest Management**
Zhang, A., Beltsville/USA, Hall, D. R., Chatham Maritime/GB, Kuang, L. F., Tawau/MAL, Hebbar, P., Hackettstown/USA
- P 135 **Chiral Chemical Signals: Important tool in the Integrated Pest Management**
Chauhan, K., Beltsville/USA
- P 136 **Male-specific volatiles released by *Hedypathes betulinus* (Coleoptera: Cerambycidae): Identification and evidence of a sex pheromone**
Zarbin, P. H. G., Curitiba/BR, Fonseca, M. G., Curitiba/BR, Vidal, D. M., Curitiba/BR
- P 137 **A single odorant in the urine of male tilapia reflects social status to females**
Barata, E. N., Faro/P, Hubbard, P. C., Faro/P, Almeida, O. G., Faro/P, Frade, P., Faro/P, Canário, A. V. M., Faro/P, Fine, J. M., St Paul/USA, Sorensen, P. W., St Paul/USA
- P 142 **Laying Sequence Variation in Yolk Carotenoid Concentrations in Yellow-headed Blackbird (*Xanthocephalus xanthocephalus*) Eggs**
Newbury, J. L., Fargo/USA, Reed, W.L., Fargo/USA, Foster, S.P., Fargo/USA, Zander, G.L., Milwaukee/USA
- P 143 **Characterization of isoprenyl diphosphate synthases from Norway spruce – critical branch-point enzymes in terpene resin biosynthesis**
Schmidt, A., Jena/D, Gershenzon, J., Jena/D
- P 144 **(2S,8Z)-2-Butyroxyl-8-heptadecene: Major Component of the Female Sex Pheromone of a Gall Midge, *Rhopalomyia* sp., pest of Chrysanthemums in China**
Liu, Y., Beijing/PRC, He, X., Beijing/PRC, Amarawardana, L., Chatham Maritime/GB, Hall, D. R., Chatham Maritime/GB, Cross, J. V., East Malling/GB