

🏠 POSTER PRESENTATION

P1 Bee Vision and Learning

- P1.01 Associative visual learning, color discrimination, and chromatic adaptation in the harnessed honeybee.
Sayaka Hori, Hideaki Takeuchi, Kentaro Arikawa, Michiyo Kinoshita, Naoko Ichikawa, Masami Sasaki, Takeo Kubo
- P1.02 Honeybee workers excel in distinction and learning of colors, shapes and patterns.
Sayaka Hori
- P1.03 Bee orientation under new energy saving greenhouse claddings.
Tjeerd Blacquière, Bram Cornelissen & Jeroen Donders

P2 Physiology and Behaviour

- P2.01 Differences between foraging groups in a learning task but no correlation in performance between tasks.
Sharoni Shafir, Tamar Drezner-Levy and Brian H. Smith
- P2.02 Do honeybees, *Apis mellifera scutellata*, regulate humidity in their nest?
Hannelie Human, Sue W. Nicolson, Vincent Dietemann
- P2.03 How do baby bees find a temperature optimum.
R. Thenius, T. Schmickl and K. Crailsheim
- P2.04 Age specificity in expression of fat body proteins in honeybee (*Apis mellifera* L.) during ontogenesis.
Evgeniya Ivanova, Teodora Staykova

- P2.05 RNA interference and olfactory memory in the honeybee.
Lucile Garreau, Sabrina Oliveira, Claire Marty, Didier Fournier, Martin Giurfa, Valérie Raymond-Delpech, Monique Gauthier
- P2.06 Protein supplementation in honeybee colonies – where does the protein go?
K. Crailsheim, U. Riessberger, R. Thenius, H. Kovac, J. Vollmann and R. Brodschneider
- P2.07 Fipronil effect on side-specific antennal tactile learning in the honeybee.
A. Bernadou, R. Marionneau, L. de Pinho, J. C. Sandoz, M. Gauthier
- P2.08 Dominance hierarchies in experimental groups of honeybee workers.
Holger Scharpenberg and Robin F.A. Moritz
- P2.09 Dependence of the morphological characteristics of the bee venom gland of the honey bee on the parameters of the third tergite.
Peter Nentchev, Lina Jordanova
- P2.10 A technique for measuring temperature distributions in the comb of honeybees (*Apis mellifera*).
Matthias Becher, Robin FA Moritz
- P2.11 Candidate genes involved in the honeybee social behaviors.
Hideaki Takeuchi

P3 Honey Bee Viruses

- P3.01 Development of a taqman real-time two-step RT-PCR assay for quantification of chronic bee paralysis virus (CBPV) genome.
Blanchard, Magali Ribière, Olivier Celle, Frank Schurr, Perrine Lallemand, Violaine Philippe Olivier, Jean-Paul Faucon
- P3.02 The chronic bee paralysis virus: a virus like no other; genomic and phylogenetic comparison with other bee viruses.
Violaine Olivier, Philippe Blanchard, Soraya Chaouch, Perrine Lallemand, Frank Schurr, Olivier Celle, Jean-Paul Faucon, Magali Ribière
- P3.03 Transmission routes of Deformed wing virus.
Constanze Yue and Elke Genersch
- P3.04 Prevalence of six honeybee viruses in beehives collected at different Austrian locations during different seasons, and correlation with non-viral diseases.
Hemma Köglberger, Irmgard Derakhshifar, Jolanta Kolodziejek, Norbert Nowotny
- P3.05 The first results of diagnostics of viral diseases of bees in Slovakia.
Cermakova T., Habovstiakova J., Kantikova M.
- P3.06 Reciprocal sequence exchange between non-retro viruses and hosts leading to the appearance of new host phenotypes.
Eyal Maori, Edna Tanne and Ilan Sela

P4 Pathogens & Diseases

- P4.01 Purification and Biochemical Characterization of Proteolytic Enzyme of Bacterium *Paenibacillus* larvae subsp. larvae.
J. Hrabák, O. Hrušková-Heidingsfeldová, K. Martinek
- P4.02 Identification of virulence factors of *P.* larvae.
Ainura Ashiralieva, Rainer Borriss, Elke Genersch

- P4.03 Molecular screening by PCR of honey bee larvae for *Melissococcus plutonius* infection.
Pietro Arculeo, Anna Maria Di Noto, Fabrizio Vitale, Maria Vitale
- P4.04 A new approach for American Foulbrood prevention.
Elena Bessi
- P4.05 Effect of sanitizing and curative treatments on the infestation of bee colonies by the spores of *Paenibacillus* larvae subsp. larvae
Krystyna Pohorecka, Dariusz Gerula, Małgorzata Bieńkowska, Beata Panasiuk
- P4.06 Survival of American foulbrood pathogen in hot beeswax.
M. Haklová, D. Titěra, M. Lutzová, P. Janoušová, M. Bednář
- P4.07 The use of Commercial Nutrient Agar TRIOS for diagnosis of American foulbrood in Honeybees.
M. Haklová, E. Bazgerová, D. Titěra, J. Bzdil
- P4.08 Spread of American Foulbrood through *Aethina tumida*?
Marc Schäfer
- P4.09 *Nosema ceranae* and *Nosema apis* in France: co-infections in honey bee colonies.
Chauzat M.-P., Higes M., Martin R., Meana A., and Faucon J.-P.
- P4.10 The incidence of honeybee parasites and diseases in Turkey.
I. Çakmak and L. Aydin
- P4.11 First Steps Towards the In vitro Cultivation of *Nosema ceranae*.
C. Del Aguila, F. Izquierdo, P.G. Palencia, R. Martin, M. Higes, S. Fenoy
- P4.12 Honeybee disease control in the EU: the Commission's decision for granting exemptions to the prescription-only principle.
Franco Mutinelli, Alessandra Baggio
- P4.13 An approach to *Nosema ceranae* control with fumagillin in field conditions.
Higes Mariano, Martín-Hernández Raquel, Garrido-Bailón Encarnación; Meana Aranzazu
- P4.14 Effects of natural compounds on *Nosema* diseased honeybees in laboratory conditions.
Marco Lodesani, Lara Maistrello, Cecilia Costa, Francesco Leonardi, Giovanna Marani
- P4.15 Reliability of diagnostic methods to detect *Nosema* spp. spores in honey bees: molecular identification versus visual observation.
Martín-Hernández Raquel, Higes Mariano, Garrido M. Encarnación, García-Palencia Pilar, Meana Aranzazu
- P4.16 Influence of sampling in the detection of *Nosema ceranae* spores.
Martín-Hernández Raquel, Higes Mariano, Garrido M. Encarnación, Meana Aranzazu
- P4.17 Experimental infection of *Apis mellifera* honeybees with *Nosema ceranae* spores
Higes Mariano, Martín-Hernández Raquel, Meana Aranzazu, García-Palencia Pilar
- P4.18 Quantitative method for the diagnosis of honey-bee nosemosis.
Gabriela Chioveanu
- P4.19 Activation of *Nosema apis* spores by carbon dioxide.
Krystyna Czekońska

P5 Macroparasites

- P5.01 Checking the efficacy of APIVAR® in French colonies.
Faucon J.-P., Drajnudel P., Chauzat M.-P. and Aubert M.F.A.
- P5.02 The Effect of Alternative Acaricides on Honey Quality in Organic Beekeeping.
H. Garção, R. Alvares, L. Barros and M. Vilas-Boas

- P5.03 Topsy-turvy brood combs – Impact on population dynamics of honey bees (*Apis mellifera* L.) and *Varroa* destructor.
Aumeier P, Kirchner WH, Liebig G
- P5.04 Chemotactic orientation of the Small Hive Beetle (*Aethina tumida*, Nitidulidae) in laboratory bioassays.
Sandra Mustafa, Peter Rosenkranz, Till Tolasch and Hannes Steidle
- P5.06 Genetic Parameters for *Varroa* Tolerance used for Estimating Breeding Values in the Honey Bee.
Klaus Ehrhardt, Norbert Reinsch, Ralph B uchler, Claudia Garrido, Kaspar Bienefeld
- P5.07 Acaricide (fluvalinate and acrinathrin) residues in Czech beeswax.
Hofbauer J., Krieg P.
- P5.08 Survival of honey bees during winter in colonies infected with *Varroa* destructor.
Lonne Gerritsen
- P5.09 Brood and worker bee viability and cellular responses after acaricide applications in honeybee colonies.
Aleř Gregorc
- P5.10 Course of *Varroa* destructor invasion in bee colonies treated with amitraz.
Rajmund Sok l, Konstanty Romaniuk, Wiesław Witkiewicz

P6 Honey Bee Genetics and Queen Rearing

- P6.01 Seasonal variation of phosphoglucomutase (Pgm) enzyme polymorphism in honeybees (*Apis mellifera* L.) of Turkey.
Kence, M., Gulduren, Z., Kence, A.
- P6.02 Breeders selection work in Serbian apiculture.
Mića Mladenović, Nebojša Nedić, Ljubiša Stanisavljević, Slađan Rašić
- P6.03 The male genital system of *Apis mellifera*: A morphological approach.
Moors L., Koeniger G., Billen J.
- P6.04 The Weight Changes and Reproductive Traits of Honey Bee Queens (*A. m. caucasica*).
Yasin Kahya and H. Vasfi Gencer
- P6.05 Study on factors accelerating oviposition of instrumentally inseminated queen bees.
Jasiński Z., Prabucki J., Wilde J., Woyke J., Chuda-Mickiewicz B., Siuda M., Madras-Majewska B., Samborski J., Bratkowski J., Joczzyk A., Bąk B.
- P6.06 Influence of various concentrations of CO₂ on results of instrumental insemination of honeybee queens.
M.Bieńkowska, D.Gerula, B.Panasiuk
- P6.07 Injuries formation in production of artificially inseminated queens and its influence on their useful value.
Gerula Dariusz, Bieńkowska Małgorzata

P7 Diversity and Conservation

- P7.01 Molecular phylogeny of *A.mellifera* subspecies occurring in Greece based on sequencing of two mtDNA segments.
E. Klossa-Kilia, Bouga M., Martimianakis S., Alahiotis S. and Kilias G.
- P7.02 Microsatellite analysis revealed the maintenance of genetic identity of subspecies of *Apis mellifera* L. in Turkey in spite of intensive migratory beekeeping.
Bodur, C., Kence, M., Kence, A.
- P7.03 Determination of Genetic variation in Northern Iran honeybee (*Apis mellifera meda*) populations using microsatellite and RAPD markers.
Kence, M., Jabbarifarhoud, H., Ivgin Tunca, R.

- P7.04 Variation of mitochondrial DNA in honey bees of Jordan.
Marina Meixner, Nizar Haddad, Stefan Fuchs
- P7.05 European bees, their morphology and microsatellites.
František Kašpar, Tomáš Kott, Květoslav Čermák, Dalibor Titěra
- P7.06 Conservation and increase the native pollinator numbers in natural habitat.
Nikolay Dobrynin
- P7.07 Flowering set-asides in large cultivated zones: converging interests for farmers, the biodiversity, landscapes and beekeeping.
Axel Decourtye
- P7.08 Biomonitoring in an Italian natural reserve.
Albino Gallina, Alessandra Baggio, Franco Mutinelli
- P7.09 Genetic variability in Turkish honeybee populations with RAPD method
Fulya Özdil

P8 Pollination

- P8.01 The pollinating insects effect on seed yield of sunflower (*Helianthus annuus* L.) plantation.
Zbigniew Koltowski
- P8.02 Motive of insect pollinators and beekeeping on postage stamps.
Robert Chlebo
- P8.03 Identification of pollen from wild, cultivated and ornamental plants in La Laguna region, Mexico.
José Luis Reyes- Carrillo, Rubi Muñoz-Soto, Frank A. Eischen , Francisca Sánchez- Bernal, Eduardo Blanco-Contreras and Pedro Cano-Ríos
- P8.04 Analysis of transgenic pollen in rape honey with real time PCR.
Waiblinger, H.U., Ohmenhaeuser, M., Pietsch K., Ritter, W., Steegmüller, J., Horn, H. and Schroeder, A.
- P8.05 Spatial and temporal distribution of honeybee foragers in a cantaloupe field with different colony densities.
Jose Luis Reyes-Carrillo, Pedro Cano-Rios, Frank A. Eischen, Rafael Rodríguez-Martinez and Urbano Nava-Camberos
- P8.06 Changes of the pollen spectrum of honeys during its ripening in the beehive.
Dariusz Teper, Piotr Semkiw, Wojciech Skowronek, Piotr Skubida
- P8.07 Relations between *Apis mellifera* L. and tulip tree (*Liriodendron tulipifera* L.).
Roberta Ferrero Paola Ferrazzi
- P8.08 The effect of pollen traps on the pollen preferences of honeybees.
Maria Dimou & Andreas Thrasylvoulou
- P8.09 The effects of honeybee pollination on canola with and without bottom pollen trap hives in cages.
M. Ozi, A. Karamasu, A.T. Goksoy, N. Ozmen, I. Çakmak
- P8.10 *Tagetes* L. as a pollen source for honeybees.
Anna Wróblewska, Zofia Magacz
- P8.11 Phenotype variability of pollen grains of chestnut (*Castanea sativa* Mill.).
Nôžkova, J, Kunová, O., Baranec, T., Bolvanský, M., Brindza, J., Chlebo, R.
- P8.12 Intraspecific Variability of Pollen Grains of Common Poppy (*Papaver somniferum* L.).
The preliminary study of the influence of pollinators on fructification of two cultivars of *Lonicera kamtchatica* (Sevast.) Pojark.
Małgorzata Bożek

- P8.13 The pollen abundance of some early spring flora of anthropogenic habitats as a part of Apoidea feeding band.
Božena Denisow
- P8.14 Forage pattern on Solidago L.
Monika Strzałkowska
- P8.15 Nutritional value of an important South African bee pollen: the fresh, bee-collected and stored pollen of Aloe greatheadii var davyana (Asphodelaceae).
Hannelie Human and Sue, W. Nicolson
- P8.16 Influence of different pollen conservation conditions. Preliminary studies.
Pérez Martín, R.A., González Lorente, M., Vela Hortigüela L. and de Lorenzo Carretero, C.
- P8.17 Insect and mite pests infesting and contaminating bee bread and pollen loads.
W. Chmielewski

P9 Environmental Hazards to Honey Bees

- P9.01 Effect of Bt-corn pollen on the development of honeybee larvae and resistance of adult workers.
Békési L., Darvas B., Székács A., Lauber É., Zajác E., Szalai Mátyás E.
- P9.02 Is the bacterial community of honey bee intestines affected by the consumption of insecticidal proteins?
D. Babendreier, D. Joller, J. Romeis, F. Bigler and F. Widmer
- P9.03 Imidacloprid and bee mortality in France.
Aubert M., Faucon J-P, Martel A.C. and Chauzat M.P.
- P9.04 New risk assessment of honeybees' intoxication to systemic insecticides: the case of imidacloprid.
Rortais A, Halm MP, Taséi JN, Arnold G
- P9.05 Effects of Fipronil in Honeybees under Semi-Field Conditions.
Axel Decourtye
- P9.06 A case of acute intoxication with carbofuran in bees.
D. Nica and E. Bianu
- P9.07 The use of chlorfenvinfos: a matter of concern for Italian beekeeping.
Albino Gallina, Alessandra Baggio, Franco Mutinelli
- P9.08 Honeybees - bioindicators in a heavy metals polluted area.
Elisabeta Bianu, Daniela Nica
- P9.09 Concentration of lead and cadmium in bees and bee bread.
Anna Spodniewska, Konstany Romaniuk
- P9.10 Transfer and accumulation of heavy metals from contaminated soils into the nests of Bombus terrestris L. (Hymenoptera, Apoidea) and little hives of Apis mellifera L. (Hymenoptera, Apoidea).
André Hamm
- P9.11 Death rate and weakening of honeybees in the south part of Belgium.
Bach Kim Nguyen
- P9.12 Sub-lethal effects of pesticides.
Helen Thompson
- P9.13 Consequences of a hive treatment with tetracycline on the quality of the honey.
Martel Anne-Claire, Zeggane Sarah, Drajnudel Patrick, Faucon Jean-Paul and Aubert Michel
- P9.14 Tested methods for the use of honeybees as bioindicators.
Rortais A, Loublrier Y, Garnery L, Arnold G
- P9.15 The pragmatism of honey bees as environmental bioindicators.
Claudio Porrini, Anna Gloria Sabatini, Piotr Medrzycki, Fabio Sgolastra, Laura Bortolotti

P10 Bee Products

- P10.01 Unifloral honey characterization attempt based on quality control parameters.
Sancho M.T., Fernández-Muiño M.A., Cavia M.M, Alonso-Torre S.R., Moreno G., Rodríguez P., Mato I., Suárez-Luque S., Sánchez M.P., Huidobro J.F.
- P10.02 Melispalynological analysis and endangerment of forest plant associations.
Roša J., Dražić M., Krakar D., Kezić N.
- P10.03 Influence of the meteorology in the botanical characteristics of honey.
Sejjo M., Chouza M., Rodríguez-Rajo, F. J., Méndez J.
- P10.04 Rheological properties of selected Croatian honeys.
Nela Nedic Tiban, Vlasta Pilizota, Drago Subaric, Djurdjica Ackar
- P10.05 Characterization of Croatian honeys by their physico-chemical characteristics.
Domagoj Matković
- P10.06 Pollen spectrum and physicochemical attributes of Croatian Mediterranean multifloral honeys.
Ljiljana Primorac, Dragan Bubalo, Daniela Kenjerić, Antonija Perl-Pirički, Ivana Flanjak, Milena L. Mandić
- P10.07 Pollen content of summer honeys from south-eastern Poland.
Ernest Stawiarz, Katarzyna Grzechnik, Anna Wróblewska
- P10.08 Spectrum of meliferous plants exploited by *Apis mellifera adansonii* in highlight soudano- guinéenne zone of West Cameroon.
Dongock Nguemo Delphine
- P10.09 Quantitative palynological analysis of honey: an automatic method much faster and accurate.
Scala M., Aronne G.
- P10.10 Color and correlated characteristics of Slovenian honey.
Jasna Bertoneclj, Terezija Golob, Urška Doberšek, Mojca Jamnik, Urška Golob
- P10.11 The basic criteria for determining of differences between real and adulterated honey in Turkey.
N. Sahinler, A. Gul, B. Yucel
- P10.12 Physico-chemical, color characterization and application of Arrhenius kinetics to rheology of Indian honey.
A.K.Bakhshi, Vikas Nanda
- P10.13 Organic honey production and some quality parameters in Hungary.
Dániel Szalai, Julianna Sütő, Enikő Szalai-Mátray
- P10.14 Evaluation of Antibiotics Residues Levels in Portuguese Honey: A Concerted Study with the Portuguese Beekeepers Associations.
Daniela Correia, Miguel VilasBoas, Luis G. Dias
- P10.15 Honey Discrimination of three Portuguese Beekeepers Associations by phenolic pattern.
Luis G. Dias, Lillian Barros, Sonia Girante, Miguel VilasBoas, Leticia Estevinho
- P10.16 Antioxidant capacity and phenolic content of Venezuelan honeys participating in a honey contest, 2005.
Rodríguez-Malaver AJ, Vit P
- P10.17 Hg and Pb detection of Brassica napus L. bee pollen from the Venezuelan Andes.
Saavedra AR, Rondón C, Carrero P, Gutiérrez L, Saavedra O, Di Bernardo ML, González I, Vit P
- P10.18 Temporal changes in honey composition.
Robert Chlebo
- P10.19 Presence of antibiotics and sulfonamides in honey and royal jelly on the European market.
Wim Reybroeck, Sigrid Ooghe and Els Daeseleire
- P10.20 A Survey on Portuguese Honey Physico-Chemical Parameters.
H. Garção, S. Fonseca and M. Vilas-Boas

- P10.21 Determination of sulphha drugs in honey by BY LC-MS/MS.
Els Daeseleire and Wim Reybroeck
- P10.22 UPLC-TOF-MS – a Useful Tool for the Analysis of Honey?
Trautvetter S., Kölling-Speer I., Speer K.
- P10.23 Ultrafiltration of Honey – Effects on Enzymes, Chloramphenicol and HMF.
Beckmann K., Beckh G., Lüllmann C., Speer, K.
- P10.24 Influence of ripening honey in controlled condition on their physicochemical property.
Piotr Semkiw, Wojciech Skowronek, Piotr Skubida, Dariusz Teper
- P10.25 Screening of the potential presence of pyrrolizidine alkaloids in honeys by spectrophotometric determination.
Pérez Martín, R.A., González Lorente, M., Lorenzo Lozano, P. and de Lorenzo Carretero, C.
- P10.26 Glucose-oxidase and catalase activities of Spanish unheated honeys.
Fernández-Muiño, M.A., Sancho, M.T., Cavia, M.M., Alonso-Torre, S.R., Moreno, G., Rodríguez, P. Sánchez, M.P., Mato, I., Suárez-Luque, S., Huidobro, J.F.
- P10.27 A comparison of pine honey's volatile compounds with those of honeydew produced from *Marchalina hellenica*.
Tananaki Chrisoula, Thrasyvoulou Andreas
- P10.28 The formation of furan derivatives in fir honey during heating.
Tananaki Chrisoula, Thrasyvoulou Andreas
- P10.29 Honey grading using fuzzy logic.
Ozkan Gorgulu, Suat Sahinler and Nuray Sahinler
- P10.30 Trace heavy metal levels in honeys from different region of Anatolia.
Tuzen M, Silici S, Mendil D, Soyлак M
- P10.31 Antibiotic residues in Turkish pine-honeydew honey.
B.Yucel, M.Dogaroglu, N.Sahinler
- P10.32 Specific rotation as a parameter for nectar and honeydew honey discrimination.
Urška Doberšek, Terezija Golob, Jasna Bertonec, Mojca Jamnik
- P10.33 Actual situation in quality of honey in Slovakia.
Cermakova T., Slanicka M., Kantikova M., Vierikova M.
- P10.34 Quantitative Characteristic of Natural Microflora of Fresh Pollen Load.
Yaroslav Lyapunov
- P10.35 Antioxidant activity of bee-collected pollen from *Papaver somniferum* L. and their nutritional value.
Šramková, K., Burdová, M.
- P10.36 The effect of the drying process on the antioxidants vitamins from bee pollen
K.C.L.S. Oliveira, M. Morya, R.A.B. Azedo, E.W. Teixeira, M.L.T.M.F. Alves, A.C.C.C. Moreti, L.B. Almeida-Muradian
- P10.37 Evaluation of nectar flow in new low erucic acid and low glucosinolate content lines of *Sinapis alba*, Brassicaceae.
Marzena Masierowska and Teresa Piętko

P 11 Management

- P11.01 Production of Royal Jelly in Queenright Colonies without Restriction of the Queens.
Goras G., Lazaridou E., Thrasyvoulou A.
- P11.02 Methodology for predicting winter survival of honey bee colonies.
Richard Rogers
- P11.03 Measuring of capped brood areas at honey bee colonies.
B. Emsen

- P11.04 The feeding of honey bee colonies with maltose rich starch syrup.
Gerhard Liebig
- P11.05 Apicultural value of sunflower hybrids in Hungary.
Edit Zajacz, Tamas Szalai, Enikő M. Szalai
- P11.06 Results of the technology of the rotating brood-nest hive (RBNH).
Szalai M E, Szalai D, Békési L
- P11.07 The application of GIS-toolboxes in beekeeping. Potential and problems.
Josef Gspurning, Igr University Of Graz
- P11.08 Lending for Macedonia Beekeeping development.
Uzunov A., Cadikovska L., Dimitrov L., Petkovski V., Kiprijanovska H.
- P11.09 The Bee-house of J.G.Mendel in Brno (CR) - the Historical Point of the European Beekeeping.
Vladimir Ptacek
- P11.10 Current status of beekeeping in the European Union.
Robert Chlebo

P 12 Non Apis Bees

- P12.01 Bee diversity and crop pollination services in fragmented landscapes.
Ingolf Steffan-Dewenter
- P12.02 Bumblebee behavioural and sensory diversity under threat by indiscriminate trade?
Lars Chittka, Thomas C. Ings, Nigel Raine, Peter Skorupski
- P12.03 Communication in eusocial bees: comparison of collective foraging.
Koos Biesmeijer
- P12.04 Mating in bees: unique behaviour by which males apply pheromones onto female antennae.
Dieter Wittmann, Matthias Schindler, Betina Blochtein, Dirk Barouz
- P12.05 Recent speciation within the western European bees of the *Colletes succinctus* group? A scenario for the evolution of *C. halophilus*.
Michael Kuhlmann
- P12.06 Establishment of *Osmia lignaria* as an orchard pollinator in North America.
Jordi Bosch, William P. Kemp, Glen E. Trostle, Fabio Sgolastra
- P12.07 Using stingless bees for enclosure pollination in tropical environments.
Quezada-Euan JIG; Cauich O; Macias JO; Melendez R,V; Valdovinos-Nuñez, GR.
- P12.08 Use of *osmia cornuta* in pear orchards: the role of ecological infrastructures for the release and management.
Bettina Maccagnani
- P12.09 Bigger is better: Intraspecific eye size variation and light sensitivity in bumblebees.
Alexander Kapustjanksij, Martin Streinzer, Hannes F. Paulus and Johannes Spaethe
- P12.10 Rearing *Bombus lapidarius* L. (Hymenoptera) in laboratory.
Vladimir Ptacek
- P12.11 Effects of Different Starting Methods on Colony Foundation of *Bombus terrestris* L. Queens.
Fehmi Gurel, Ayhan Gosterit
- P12.12 Effects of weight of queens after diapause on colony development in the bumblebee, *Bombus terrestris* L. (Hymenoptera: Apidae).
Ayhan Gosterit, Fehmi Gurel
- P12.13 Morphological characterization of bumblebees (Hymenoptera: Apidae) in Slovenia.
Peter Kozmus, Vladimir Meglič, Meta Virant-Doberlet, Peter Dovč

- P12.14 Are solitary bees affected when feeding on transgenic insect-resistant crop plants?
Roger Konrad and Dirk Babendreier
- P12.15 Male marking pheromone of *Bombus terrestris*: Changes in composition and activity.
Irena Valterová, Lucie Cahlíková, Blanka Kalinová, Jan Šobotník, Oldřich Hovorka, Vladimír Ptáček
- P12.16 Multitemporal Investigation of Giant Honey Bees (*Apis Dorsata*) Migration in Chitwan Area (Nepal) by means of Remote Sensing.
M. Hirschmugl, E. Huettinger, G. Kastberger, W. Sulzer
- P12.17 Communication precision of foragers in the stingless bee *Scaptotrigona mexicana*.
D. Sánchez, F. B. Kraus, M. de Jesús Hernández, R. Vandame
- P12.18 How bees get rid of ants?
Orawan Duangphakdee, Nikolaus Koeniger, Siriwat Wongsiri and Sureerat Deowanish
- P12.19 Decrease of flight activity caused by *Vespa orientalis* at the flight entrance of *Apis mellifera syriaca* in Jordan
N. Haddad, S. Fuchs, Ahmed Batainha
- P.12.20 Ecophysiology of pre-wintering in the solitary bee *Osmia Lignaria* (Hymenoptera, Megachilidae)
F. Sgolastra¹, J. Bosch², W. P. Kemp³, T. Pitts-Singer⁴, J. Buckner³, S. Maini¹