

7TH INTERNATIONAL WEED SCIENCE CONGRESS

"Weed Science and Management to Feed the Planet"

JUNE 19 - 25, 2016
CLARION CONGRESS HOTEL PRAGUE
PRAGUE, CZECH REPUBLIC

PROGRAM SCHEDULE



IWSC 2016



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SCHEDULE 7TH IWSC 2016

SUNDAY 19 JUNE, 2016

- 8:00-19:00** Registration
- 8:30-17:00** Pre-Congress Courses
- COURSE I. Writing a paper for an international scientific journal (Hall: Leo)
- COURSE II. Use of linear and nonlinear regression in weed science (Hall: Aquarius)
- COURSE III. ARM – from the e-mail with the trial protocol step-by-step to the final report (Hall: Taurus)
- 9:00-16:00** EWRS Board Meeting (Hotel Pivovar)
- 15:00-17:00** IWSS Board Meeting
- 19:00-21:00** Welcome Reception (Foyer of the Congress floor)

MONDAY 20 JUNE, 2016

- 7:00-8:30** Registration
- 8:30-9:00** Opening Ceremony (Hall: Meridian)
- 9:00-10:00** **Plenary session**
Invited plenary presentation: Hermann Stübler: Weed control at the cross roads - which innovations are at the horizon (Hall: Meridian)
- 10:00-11:30** **Poster session I + Coffee Break**
- 11:30-13:00** **Concurrent sessions 1 - 7**

Session 1 *HERBICIDE RESISTANCE: Non-Target-Site Resistance 1 - Chair: R. Beffa (DE)*
Hall: Meridian

- 11:30-12:00** **Keynote:** Paul Neve, David Comont, Helen Hicks, Catherine Tetard-Jones, Shaun Coutts, Andrea Dixon, Laura Crook, Richard Hull, Dylan Childs, Robert Freckleton: The Black-grass Resistance Initiative: Interdisciplinary research to unravel multiple herbicide resistance 'from gene-to-field' (737)
- 12:00-12:15** Roland S. Beffa, Satoshi Iwakami, Susana Gonzalez, Veronika Brabetz, Todd Gaines, Frank Maiwald, Ott Mark-Christoph, Heping Han, Qin Yu, Stephen B Powles: Next generation sequencing validation requested to reveal non-target-site herbicide resistance mechanisms (599)
- 12:15-12:30** Giliardi Dalazen, Aldo Merotto Júnior, Alexandre Pisoni, Emanuel De Costa, Rafael S. Rafaeli: Gene expression associated with degradation enhancement as the mechanism of resistance to imazethapyr in barnyardgrass (386)
- 12:30-12:45** Jin Won Kim, Lim Soo-Hyun, Lim Ji-Soo, Gyeongju Nah, Do-Soon Kim: Metabolism-based ALS inhibitor resistance in *Echinochloa oryzicola* revealed by gene-expression profiling (210)
- 12:45-13:00** Poster summary presentation (R. Beffa)

Session 2 *HERBICIDE RESISTANCE: Biochemical Aspects - Chair: A. Lawton-Rauh (US)*
Hall: Tycho

- 11:30-12:00** **Keynote:** Franck E. Dayan, Ciao A. Carbonari, Giovanna L. Gomes, Daniel K. Owens, Zhiqiang Pan, Edivaldo Velini: Resistance to glufosinate is proportional to phosphinothricin acetyltransferase expression and activity in LibertyLink® and WideStrike® cotton (18)
- 12:00-12:15** Yin Chen, Linjian Jiang, Joshua J. Blakeslee, Douglas J. Doohan: Physiology and response of glyphosate-resistant and conventional soybean grafted plants following glyphosate application (261)

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- 12:15-12:30** Silvia Panozzo, Laura Scarabel, Ákos Balogh, Julia Heini, István Dancza, Maurizio Sattin: Occurrence of different resistance mechanisms to ALS inhibitors in European *Sorghum halepense* (475)
- 12:30-12:45** Stephen O Duke, Ferdinando ML Silva, Franck E Dayan, Edivaldo D Velini: Low doses of glyphosate change the responses of soybean to subsequent glyphosate treatments (93)
- 12:45-13:00** Poster summary presentation (A. Lawton-Rauh)

Session 3 *BIOLOGICAL WEED CHARACTERISTICS: Germination and Emergence - Chair: G. Bourdot (NZ)* *Hall: Stella*

- 11:30-12:00** **Keynote:** Joel Torra, Aritz Royo-Esnal, Guillermo R. Chantre: Modeling weed emergence: artificial neural networks versus non-linear regression procedures (169)
- 12:00-12:15** Aritz Royo-Esnal, Jevgenija Necajeva, Frank Forcella, Joel Torra, Jordi Recasens, Russell W Gesch: The use of light in weed emergence models (203)
- 12:15-12:30** Alireza Taab, Mehrangiz Akbari: Seedling emergence of *Solanum villosum* affected by soil depth (324)
- 12:30-12:45** Ananda Scherner, Bo Melander, Per Kudsk, Peter K. Jensen: The dynamics of grass weed emergence in a long-term crop rotation and tillage experiment (80)
- 12:45-13:00** Poster summary presentation (G. Bourdot)

Session 4 *WEED MANAGEMENT IN CROPS AND NON-AGRICULTURAL LAND: Integrated Weed Management - Chair: N. Harker (CA)* *Hall: Aquarius + Taurus*

- 11:30-12:00** **Keynote:** Bhagirath S. Chauhan: Integrated weed management in cereals and legumes in Australian agriculture (57)
- 12:00-12:15** Dharam Bir Yadav, Ashok Yadav, Dalip Kumar Bishnoi, Baldev R. Kamboj, Gurjeet Gill: Direct seeding as an alternate establishment method of rice and emerging issues in Indo-gangetic plains of north-western India (637)
- 12:15-12:30** Anneli Lundkvist, Anders TS Nilsson, Theo Verwijst, Per-Anders Algerbo, Mikael Gilbertsson, David Hansson, Per Ståhl, Maria Stenberg: Intra-row spraying and inter-row hoeing in spring oilseed rape (341)
- 12:30-12:45** Ákos Balogh, Andreas Zoschke, Gael Le Goupil: Early Weed Management in corn and the role of bicyclopyrone (738)
- 12:45-13:00** Mehdi Minbashi, Hamid Rahimian, Mohammad Ali Baghestani, Hasan Alizadeh, Mir Masood Kheirkhah, Seied Hosien N Kakhki, Ahmad Diehji: Determining the phenology and using a geographic information system (GIS) for managing wild mustard (*Sinapis arvensis* L.) in wheat fields (792)

Session 5 *WEED ECOLOGY: Weed response and adaptation to changing environments- Chair: F. Lamego (BR)* *Hall: Nadir*

- 11:30-12:00** **Keynote:** Lewis H. Ziska, Jeff S Pettis, Joan Edwards, Jillian E Hancock, Martha B Tomecek, Andrew Clark, Jeff S Dukes, Irakli Loladze, Wayne Polley: Historical and experimental evidence for a CO₂ induced decline in protein concentration of an important fall pollen source (*Solidago canadensis*) of North American bees (68)
- 12:00-12:15** Denise F. Dostatny: A positive effect of organic farming on biodiversity in agroecosystems (443)
- 12:15-12:30** Kathiresan Ramanathan Kathir: Impact of climate fluctuation on the status of invasive alien weeds in Cauvery delta region of India (570)
- 12:30-12:45** Andrea F. Hoffmann, Mauro A. Rizzardì, Leandro Vargas, Peter K. Jensen, Ananda Scherner: What are the optimal temperature range and base water potential for germination of three tropical grass weeds? (308)
- 12:45-13:00** Poster summary presentation (F. Lamego)

Session 6 *CROP-WEED INTERACTIONS: Competition and Interactions - Chair: M. Bagavathiannan (US)* *Hall: Kepler*

- 11:30-12:00** **Keynote:** Longjiang Fan: The *Echinochloa* genomes reveal molecular mechanisms for their environmental adaptation (269)
- 12:00-12:15** Jong-Seok Song, Jin-Won Kim, Ji-Hoon Im, Dong-Gil Kim, Soo-Hyun Lim, Yeonhwa Lim, Do-Soon Kim:

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Modeling the effects of N fertilizer on soybean-weed competition under multiple weed interference (88)

12:15-12:30 Anika Zacher, Christel Baum, Friederike de Mol, Klaus J. Dehmer, Bärbel Gerowitt: Mechanisms of P mobilization in the rhizosphere involving weeds and crop plants (318)

12:30-12:45 Manpreet Singh, Makhan Singh Bhullar: Crop responses to weed growth in dry seeded rice systems (804)

12:45-13:00 Poster summary presentation (M. Bagavathiannan)

Session 7 *HERBICIDES AND APPLICATION TECHNOLOGY: Sprayers - Chair: D. Dodds (US)* *Hall: Zenit*

11:30-12:00 **Keynote:** Daniel B. Reynolds, Greg Kruger, Trae Foster, Steve Claussen: Off-target movement of various size spray droplets when applied with an open versus a shielded boom (105)

12:00-12:15 Joachim Duus, Flemming Frederik Hare, Jens Carl Streibig: Logarithmic sprayers are indispensable in assessing herbicides with adjuvants, mixtures and herbicide drifts (408)

12:15-12:30 Brian R. Finstrom: High resolution chemical application control (669)

12:30-12:45 Bruno Canella Vieira, Guilherme Sousa Alves, Fernando Kassis Carvalho, Greg R. Kruger: Flight speed, pressure and deflection angle influence on droplet size spectra in aerial applications of glyphosate associated with adjuvants (494)

12:45-13:00 Poster summary presentation (D. Dodds)

13:00-14:30 **Lunch**

14:30-16:00 **Concurrent sessions 8 - 14**

Session 8 *HERBICIDE RESISTANCE: Non-Target-Site Resistance 2 - Chair: R. Beffa (DE)* *Hall: Meridian*

14:30-15:00 **Keynote:** Roberto Busi, Stephen B Powles: Can we improve the management of herbicide-resistant weeds in Australia? (733)

15:00-15:15 Reiofeli A. Salas, Nilda R. Burgos, Amy Lawton-Rauh, Rooksie Noorai, Christopher Saski, Robert Nichols, Robert C. Scott: RNA-seq transcriptome analysis for herbicide tolerance in Palmer amaranth (462)

15:15-15:30 Lucie Meyer, Géraldine Bailly, Bruno Chauvel, Valérie Le Corre, Christophe Délye: Selection of non-target-site resistance (NTSR) to several ALS-inhibiting herbicides in three populations of *Ambrosia artemisiifolia* (65)

15:30-15:45 Christophe Délye, Arnaud Duhoux: The herbicide safener cloquintocet-mexyl reduces rye-grass (*Lolium* sp.) sensitivity to an ALS inhibitor and regulates candidate non-target-site-based resistance genes (139)

15:45-16:00 Poster summary presentation (R. Beffa)

Session 9 *HERBICIDE RESISTANCE: Herbicide Resistance Modeling - Chair: A. Lawton-Rauh (US)* *Hall: Tycho*

14:30-15:00 **Keynote:** Chenxi Wu, Patrick J Tranel, Adam S Davis: Evolution of herbicide resistance: Is there a fitness cost? (390)

15:00-15:15 Rodrigo Werle, Brigitte Tenhumberg, John L. Lindquist: Modeling shattercane population dynamics in a stochastic herbicide-tolerant Sorghum cropping system (102)

15:15-15:30 Gayle J. Somerville, Michael Renton, Michael Walsh, Stephen B. Powles: Were pre-emergent herbicides protected from resistance by their early seasonal applications and lowered efficacy? (662)

15:30-15:45 Shiv Shankhar Kaundun, Chun Liu, Lucy Jackson, Sarah-Jane Hutchings, Daniel Tuesca, Raúl Moreno, Ian Zelaya: A holistic biological and computer-based modelling approach for rapidly identifying and sustainably managing glyphosate-resistant Amaranths in soybean agro-systems in Argentina (242)

15:45-16:00 Poster summary presentation (A. Lawton-Rauh)

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Session 10 *WEED MANAGEMENT IN CROPS AND NON-AGRICULTURAL LAND: Weed Control in Herbicide Resistant Crops - Chair: N. Harker (CA)*
Hall: Aquarius + Taurus

- 14:30-15:00** **Keynote:** Alberto Collavo, Roland Beffa, Ruediger Hain, Martin Wegener: Stewardship and diagnostic supporting ALS tolerant sugarbeet to contrast herbicide resistance evolution (551)
- 15:00-15:15** Chinnagounder Chinnusamy, Duraisamy Ravishankar, Chinnasamy Nithya, Kannan Sivagamy: Agronomic evaluation of herbicide resistant cotton and maize for better weed management in India (140)
- 15:15-15:30** Xiangju Li, Hailan Cui, Huilin Yu: The advantages of glyphosate-resistant corn production in China (342)
- 15:30-15:45** Veronika Fendrychová, Miroslav Jursík: Possibilities of volunteer Clearfield oilseed rape control (612)
- 15:45-16:00** Poster summary presentation (N. Harker)

Session 11 *WEED ECOLOGY: Evolution and Adaptation of Weeds - Chair: F. Lamego (BR)*
Hall: Nadir

- 14:30-15:00** **Keynote:** Sheng Qiang Qiang: Epigenetic variation may play a major role in rapid post-introduction adaptative evolution of an invasive alien weed (642)
- 15:00-15:15** Desika Moodley, Şerban Procheş, John R. U. Wilson: A global assessment of invasiveness in the *Araceae*: any general invasive traits in a shape-shifting family? (157)
- 15:15-15:30** Jordi F. Izquierdo, Jane Morrison, Clara Prats, Daniel Lopez: New model approach for forecasting timing of weed control measures (618)
- 15:30-15:45** Francesco Vidotto, Marco Milan, Fernando De Palo, Silvia Fogliatto, Aldo Ferrero: Weed community evolution in conservative and conventional agricultural systems (624)
- 15:45-16:00** Poster summary presentation (F. Lamego)

Session 12 *CROP-WEED INTERACTIONS: Competition and Interactions, Integrated Weed Management - Chair: M. Bagavathiannan (US)*
Hall: Kepler

- 14:30-15:00** **Keynote:** John L. Lindquist: How can we predict the effects of varying soil water supply on crop-weed competition? (186)
- 15:00-15:15** Mehmet Nedim Doğan, Derya Ögüt Yavuz, Özhan Boz: The effect of weed competition on cotton growth as affected by temperature and carbon dioxide conditions (469)
- 15:15-15:30** Sarah Berger, Jason Ferrell, Diane Rowland, Theodore Webster: Palmer amaranth (*Amaranthus palmeri*) competition for water in cotton (21)
- 15:30-15:45** Muhammad A. Khan: Competition of major weeds with wheat across KP Province, Pakistan (281)
- 15:45-16:00** Poster summary presentation (M. Bagavathiannan)

Session 13 *HERBICIDES AND APPLICATION TECHNOLOGY: Application Tools and Techniques and Analytical Methods - Chair: J. P. Cunha (BR)*
Hall: Zenit

- 14:30-15:00** **Keynote:** Jose M. Peña, Jorge Torres-Sanchez, Ana Isabel de Castro, Francisca Lopez-Granados: The full protocol for early-season weed mapping with UAV technology (702)
- 15:00-15:15** Kirsten S. Tørresen, Therese W. Berge: The potential of two tools for integrated weed management to reduce herbicide use against annual weeds in cereals (520)
- 15:15-15:30** Andrew G. Hulting, Carol Mallory-Smith, Pete A. Berry: Carbon-seeding technology: Applications for weed management in seed production and beyond (63)
- 15:30-15:45** Ahmet Tansel Serim, Süleyman Gürdal Türkseven, Ünal Asav, Barış Özgür Koçtürk, Mehmet Demirci: Banded herbicide application in cotton (183)
- 15:45-16:00** Poster summary presentation (J. P. Cunha)

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Session 14 *JOINT IWSS/INTERNATIONAL BIOHERBICIDE GROUP SESSION: Realizing the Potential of Biological Weed Control - Chair: K. Bailey (CA) and D. Sands (US)* Hall: Stella

- 14:30-15:00** **Keynote:** Russell K. Hynes, Karen L. Bailey, Jo-Anne Derby, Daniel Hupka: Broad leaved weed control by *Phoma macrostoma* in agricultural crops (23)
- 15:00-15:15** Michael G. Cripps, Sarah Jackman, Graeme Bourdot: Impact of the biocontrol beetle, *Cassida rubiginosa*, on *Cirsium arvense* in New Zealand (37)
- 15:15-15:30** Susan M. Boyetchko, Russell K. Hynes, Tim Dumonceaux: The development of a soil bacterium as a pre-emergent bioherbicide (412)
- 15:30-15:45** Raghavan Charudattan: SolviNix LC, the first registered bioherbicide containing a plant virus as the active ingredient (99)
- 15:45-16:00** Poster summary presentation (D. Sands)
- 16:00-17:00** Discussions with plenary and keynote speakers (Hall: Meridian)
- 17:00-18:00** Working Group Meetings
- WG Site specific weed management + WG Weed management in arid and semi-arid climate + WG Parasitic Weeds (Hall: Meridian)
- WG Herbicide tolerant varieties + WG Optimisation of herbicide dose (Hall: Zenit)
- WG Crop-weed interactions + WG Germination and early growth (Hall: Aquarius + Taurus)
- WG Weeds and Biodiversity (Hall: Leo)
- WG Physical and cultural weed control (Hall: Kepler)
- WG Weed Mapping (Hall: Tycho)
- 17:00-18:00** International Bioherbicide Group Meeting (Hall: Stella)
- 18:00-19:00** EWRS General Assembly (Hall: Meridian)

TUESDAY 21 JUNE, 2016

8:15-9:15 **Plenary session**

Invited plenary presentation: Christoph Schulze-Stentrop: Application technique – The challenge of future spraying (Hall: Meridian)

9:45-13:15 **Concurrent sessions 15 - 21**

Session 15 *HERBICIDE RESISTANCE: Herbicide Resistance Status and Surveys - Chair: R. Beffa (DE)* Hall: Meridian

- 9:45-10:15** **Keynote:** Bodo Peters, Harry J. Strek: The global status of weed resistance and consequences for agricultural practices (523)
- 10:15-10:30** Adriana H. Arias, Jin-Won Kim, Albert J. Fischer, Do-Soon Kim: Spatial distribution of herbicide resistant *Echinochloa* spp. in rice fields in California, USA (201)
- 10:30-10:45** Katerina Hamouzova, Pavlina Kosnarova, Josef Soukup, Miroslav Jursik: A decade of monitoring herbicide resistance in *Apera spica-venti* in the Czech Republic (502)

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- 10:45-11:00** Saima Hashim, Asad Jan: Herbicide resistant weeds: A case study from wheat growing area of Pakistan (466)
- 11:00-11:30** **Coffee break**
- 11:30-11:45** Carl F. Reinhardt, Juan J. Vorster, Nelima M. Okumu: Resistance of *Conyza bonariensis* to glyphosate: Situation in South Africa (78)
- 11:45-12:00** Bradley D. Hanson, Marcelo Moretti, Sarah Morran, Lynn M. Sosnoskie: Herbicide resistance in California orchard and vineyard cropping systems (43)
- 12:00-12:15** Rafael M. Pedroso, Kassim Al-Khatib, Rocio Alarcón-Reverte, Ibrahim Abdallah, Albert J. Fischer: Resistance to propanil in *Cyperus difformis* and *Schoenoplectus mucronatus* from California rice is endowed by a psbA mutation, Valine219 to Isoleucine: implications for management (87)
- 12:15-12:30** Rasa Stefanovičienė, Ona Auškalnienė: The influence of growing technology on distribution of *Apera spica venti* in winter wheat fields (721)
- 12:30-12:45** Christopher E. Rouse, Nilda Burgos, Amy Lawton-Rauh, Christopher Saski: A multifaceted approach to understanding multiple-resistant *Echinochloa colona* (409)
- 12:45-13:00** Johannes K. M. B. Herrmann, Martin Hess, Bodo Peters, Otto Richter, Roland Beffa: Black grass (*Alopecurus myosuroides* Huds.) resistance to ALS and ACCase inhibitors: A case study approach to study field evolution and management of weed resistance to herbicides over space and time (30)
- 13:00-13:15** Poster summary presentation (R. Beffa)
- Session 16** **WEED MANAGEMENT IN CROPS AND NON-AGRICULTURAL LAND: Weed Management in Rice**
- Chair: **H. Mennan (TR)**
Hall: **Aquarius + Taurus**
- 9:45-10:15** **Keynote:** Roberto Busi, Francesco Vidotto, Maurizio Tabacchi, Nilda Burgos, Bhagirath Chauhan, Stephen Powles: The weedy rice threat to food security in Asia: global insights into management (521)
- 10:15-10:30** Mauricio Morell, Monte R. Weimer, Carla Yerkes, Paul Schmitzer, Richard K. Mann, Natalino Dalla Valle: Introduction of Rinskor™ active, a new arylpicolinate herbicide from Dow AgroSciences (617)
- 10:30-10:45** Gulshan Mahajan, Bhagirath Singh Chauhan: Integrated weed management in dry direct- seeded rice in South Asia (482)
- 10:45-11:00** Husrev Mennan, Kianoosh Haghnama, Emine Kaya-Altop, Ismail Oguz Ozdemir: Herbicide resistant weed management program in rice (138)
- 11:00-11:30** **Coffee break**
- 11:30-11:45** A.N. Rao Adusumilli, Ramesha M., J. K. Ladha, Suhas P. Wani: Weed management in rice of Asian-Pacific region (549)
- 11:45-12:00** Ricardo E. Labrada Romero: Major weeds in rice of Ecuador (48)
- 12:00-12:15** Ronald J. Levy, Eric P. Webster, Samer Y. Rustom, Benjamin M. McKnight, Eric A. Bergeron: Long term crop and herbicide rotation to managing weedy rice populations (771)
- 12:15-12:30** Aldo Ferrero, Marco Milan, Alberto V Puggioni, Fernando De Palo, Silvia Fogliatto, Francesco Vidotto: Weed management in drip irrigated rice (626)
- 12:30-12:45** Murali Arthanari Palanisamy, Mathialagan Swaminathan, Chinnagounder Chinnusamy: Benefits of a ready mix herbicide on broad spectrum weed control in transplanted rice (*Oryza sativa* L.) (116)
- 12:45-13:00** Giovani Theisen, André Andres, Gustavo M. Teló, Lammert Bastiaans, Jose M. B. Parfitt, Matheus B. Martins: Weed control in sprinkler irrigated dry-seeded rice (352)
- 13:00-13:15** Poster summary presentation (H. Mennan)
- Session 17** **WEED ECOLOGY: Weed Distribution, Surveys and Mapping / Weed Community Dynamics**
- Chair: **J. Salonen (FI)**
Hall: **Nadir**
- 9:45-10:15** **Keynote:** Guangxi Wang, Ayaka Nagatsuru, Ai Itano, Qingxiang Han, Shigeru Yokouchi: Where did *Monochoria korsakowii* in stricken area, affected by 2011 Tohoku earthquake and tsunami, derive from? (127)

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- 10:15-10:30** Süleyman Türkseven, İsmail Can Paylan, Deniz Çapkan, Mehmet Demirci, Ahmet Tansel Serim, Ahmet Uludağ: Identification and distribution of wild oat (*Avena* spp.) species with molecular and classical methods in wheat areas in Turkey (327)
- 10:30-10:45** Matteo Mota, Stéphane Burgos, Magali Wentzel, Maurine Neyroud: The influence of soil management practices on functional traits and biodiversity of weed communities in Swiss vineyards (346)
- 10:45-11:00** Yongbo Liu, Nengwen Xiao: The potential influence of cultivating Bt-transgenic cottons on weed diversity (782)
- 11:00-11:30** **Coffee break**
- 11:30-11:45** Breanne D. Tidemann, Linda M. Hall, K. Neil Harker, Brendan C. Alexander: Potential effects of harvest weed seed control on wild oat populations based on demographic modelling (380)
- 11:45-12:00** Bilal Esitmez, Isik Dogan: The role of soil parameters on weed distribution in apple orchards (790)
- 12:00-12:15** Anna-Camilla Moonen, Stefano Carlesi, Zita Dorner, Mihály Zalai: Semi-natural habitat types provide different disservices in terms of weed infestations in European arable fields (440)
- 12:15-12:30** Ramon G. Leon, Renan Aguero, Diego Calderon: Weed diversity and distribution is influenced by field fragmentation and soil texture in sugarcane fields (485)
- 12:30-12:45** Ahmet Uludag, İlhan Uremis, Ayse Yazlik, Hansjoerg Kraehmer, Garifalia Economou, Elissavet Gavriil, Cumali Ozaslan, Bekir Bukun, İlhan Kaya: Distribution and mapping of *Sorghum halepense* (605)
- 12:45-13:00** Anne-Kari Holm, Abdelhameed Elameen, Benedikte W Oliver, May Bente Brurberg, Inger S Fløistad, Lars Olav Brandsæter: Genotypic diversity of invasive *Fallopia* spp. in Norway (367)
- 13:00-13:15** Poster summary presentation (J. Salonen)

Session 18 **CROP-WEED INTERACTIONS: Integrated Weed Management + Parasitic Weeds**
- Chair: J. Rodenburg (TZ)
Hall: Kepler

- 9:45-10:15** **Keynote:** Gael Le Goupil, Andreas Zoschke, Akos Balogh: Why early weed management matters now more than ever (739)
- 10:15-10:30** Sarah K. Cook, James Marshall-Roberts: Optimising the competitive effects of hybrid barley for the control of *Alopecurus myosuroides* (96)
- 10:30-10:45** Michael Zerner, Samuel GL Kleemann, Gurjeet S. Gill: Integration of weed competitive wheat cultivars, seeding rate and pre-emergence herbicides to improve the management of rigid ryegrass (*Lolium rigidum*) (192)
- 10:45-11:00** Husam Saadi Mohammed Khalaf, Brian Sindel, Paul Kristiansen, Robin Jessop: Characterizing the competitive ability of triticale and wheat cultivars with annual ryegrass, *Lolium rigidum* (583)
- 11:00-11:30** **Coffee break**
- 11:30-11:45** Elbé Hugo, Liesl Morey, Jeanetta A. E. Saayman-Du Toit, Charles F. Reinhardt: Critical time of weed removal of *Digitaria nuda* (Schumach.) in maize (*Zea mays*) in South Africa (89)
- 11:45-12:00** Chong Yang, Luyang Hu, Wenjian Song, Basharat Ali, Koichi Yoneyama, Weijun Zhou: Alleviation of root holoparasitic *Orobancha cumana* infection by exogenously applied salicylic acid in host crop *Helianthus annuus* (205)
- 12:00-12:15** Tal Shilo, Lilach Zygier, Shmuel Wolf, Baruch Rubin, Hanan Eizenberg: Aspects of glyphosate mechanism in Egyptian broomrape control (238)
- 12:15-12:30** Hanan Eizenberg, Guy Achdari, Gadi Tal, Mali Dagan: Assimilating a decision support system 'PICKIT' for Egyptian broomrape (*Phelipanche aegyptiaca*) control in processing tomato in Israel (243)
- 12:30-12:45** Noam Ariel, Hanan Eizenberg, Radi Aly: Molecular markers for identification and quantification of broomrape (*Orobancha* and *Phelipanche* spp.) seeds in a soil sample (247)
- 12:45-13:00** Sava Vrbnicanin, Eleonora Onc-Jovanovic, Dragana Bozic, Marija Saric-Krsmanovic, Filip Vranjes: Effect of velvetleaf (*Abutilon theophrasti* Medic.) density on corn (428)
- 13:00-13:15** Poster summary presentation (J. Rodenburg)

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Session 19 **NON-CHEMICAL WEED CONTROL TOOLS: Preventive Methods**

- Chair: **P. Bàrberi (IT) and M. Riemens (NL)**

Hall: **Tycho**

- 9:45-10:15** **Keynote:** Emily R. Reiss, Laurie E. Drinkwater, Matthew R. Ryan: Weed suppression by cover crops mixtures using intra- and inter- specific diversity (254)
- 10:15-10:30** Marzia Ranaldo, Stefano Carlesi, Ambrogio Costanzo, Paolo Bàrberi: Can weed management in vegetable systems be improved by cover crop species mixtures? Step 2: field implementation (198)
- 10:30-10:45** Emilie F. Fillols, Timothy N. Staier: Use of cover crops as weed management tools in sugarcane fallow (122)
- 10:45-11:00** María Alonso-Ayuso, José Luis Gabriel, Juan Pablo del Monte, Miguel Quemada: The weed seedbank after 8 years of winter cover cropping (623)
- 11:00-11:30** **Coffee break**
- 11:30-11:45** Jeffrey A. Liebert, Antonio DiTommaso, Matthew R. Ryan: Multi-tactic weed control in organic no-till soybean production: overcoming cover crop management challenges with a focus on shading (239)
- 11:45-12:00** Elena Testani, Stefano Canali, Gabriele Campanelli, Fabrizio Leteo, Fabio Tittarelli, Stefano Trotta, Corrado Ciaccia: Allelopathic effect of hairy vetch (*Vicia villosa*) cover crop on weeds: field evidences in a Mediterranean organic vegetable agro-ecosystem (363)
- 12:00-12:15** Dominic J. Sturm, Christoph Kunz, Roland Gerhards: Comparison of different cultivations of *Raphanus sativus* var. *oleiformis* Pers. as cover crop on weed suppression (128)
- 12:15-12:30** Dibakar Ghosh, Koushik Brahmachari, Raghwendra Singh, Meenal Rathore, Bhumes Kumar: Cultural weed management of Indian weedy rice through deep tillage and flooding (224)
- 12:30-12:45** Hilary A. Sandler, Katherine M. Ghantous: Using analytic hierarchy processing and grower feedback to promote adoption of integrated management strategies for dodder (*Cuscuta* spp.) in cranberry (179)
- 12:45-13:00** Merel A. J. Hofmeijer, Bo Melander, Jukka Salonen, Theo Verwijst, Livija Zarina, Bärbel Gerowitt: Monitoring weeds in organic spring cereals in Northern Europe (320)
- 13:00-13:15** Poster summary presentation (M. Riemens)

Session 20 **HERBICIDES AND APPLICATION TECHNOLOGY: Soil and Environmental Impacts**

- Chair: **G. Kruger (US)**

Hall: **Zenit**

- 9:45-10:15** **Keynote:** Thomas C. Mueller: A national survey of the effect of previous atrazine use on enhanced atrazine degradation in US soils (74)
- 10:15-10:30** Amit Paporisch, Yael Laor, Baruch Rubin, Hanan Eizenberg: Accelerated dissipation of sulfosulfuron activity in soil (79)
- 10:30-10:45** Theresa Reinhardt: Multi-crop bioassay of simulated dicamba residue in soil (459)
- 10:45-11:00** Roy Sankhajit, Sambrita Majumder, Suman Saha, Abhishek Kundu, Anjan Bhattacharyya: Persistence and dissipation of penoxsulam and butachlor in transplanted paddy (110)
- 11:00-11:30** **Coffee break**
- 11:30-11:45** Mohammad Irfan, Satbir S. Punia, Samunder Singh, Anil Duhan: Dissipation of imidazolinone herbicides applied in green gram from soil by GC/MS tandem mass spectrometry (682)
- 11:45-12:00** Timothy L. Grey, Alford S. Culpepper, Xiao Li, Theodore M. Webster: Evaluating the time required for dissipation of halosulfuron from low density polyethylene mulch using bioassay and analytical methods (20)
- 12:00-12:15** Bo Tao, Jun Yu Han, Qin Xiao Wang, Huan Wang: Characteristics and degradation mechanism of fomesafen (193)
- 12:15-12:30** Anjan Bhattacharyya, Sayan Ghosh, Sambrita Majumdar, Sankhajit Roy: Degradation kinetics of acetochlor 90% EC in paddy and maize under West Bengal climatic condition (334)
- 12:30-12:45** Jonathan Marks-Perreau, Benoît Real, Alain Dutertre: Transfer of plant protection products in different pedological and climatic environment (613)
- 12:45-13:00** Tuvia Yaacoby, Moshe Sibony, Baruch Rubin: Overcoming the reduced efficacy of glufosinate ammonium

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under low ambient temperatures (118)

13:00-13:15 Poster summary presentation (G. Kruger)

Session 21 *JOINT IWSS/INTERNATIONAL BIOHERBICIDE GROUP SESSION: New Ideas and Directions in Biological Weed Control - Chair: K. Bailey (CA) and S. Boyetchko (CA)*
Hall: Stella

9:45-10:15 **Keynote:** Karen Bailey, Jo-Anne Derby, Graeme Bourdot, Bob Skipp, Mike Cripps, Geoff Hurrell, David Saville, Alasdair Noble: *Plectosphaerella cucumerina* - a potential bioherbicide for *Cirsium arvense* (39)

10:15-10:30 Writuparna Dutta, Vishma Pratap Sur, Puja Ray: Arthropod - fungal interaction in biocontrol of *Eichhornia crassipes* (76)

10:30-10:45 Angela Boari, Biancamaria Ciasca, Rocío Pineda-Martos, Veronica M.T. Lattanzio, Koichi Yoneyama, Maurizio Vurro: Biological control of parasitic weeds by using strigolactone-degrading fungi (579)

10:45-11:00 Berestetskiy O. Alexander, Gasich L. Elena: Biological activity of extracts from different pathogens of common ragweed (703)

11:00-11:30 **Coffee break**

11:30-11:45 Md. Shafiqul Islam, Arihiro Iwasaki, Kiyotake Suenaga, Hisashi Kato-Noguchi: Bioactive substances from *Marsilea crenata* as allelopathic studies (588)

11:45-12:00 Friederike Trognitz, Siegrid Widhalm, Stéphane Compant, Abdul Samad, Livio Antonielli, Angela Sessitsch: Plant-associated bacteria as biocontrol agents against weeds (569)

12:00-12:15 Anna A. Dalinova, Alexander A. Berestetskiy: The infection process of *Alternaria sonchi* on *Sonchus arvensis* (383)

12:15-12:30 David C. Sands, Henry S. Nzioki, Florence Oyosi, Claire S. Baker: *Striga* biocontrol: A readily deployable and inexpensive method for smallholder farmers (839)

12:30-12:45 Josef Holec, Evženie Prokinová, Martina Fikrová, Josef Soukup: *Macalpinomyces neglectus* and *Ustilago trichophora* as potential agents for *Setaria pumila* and *Echinochloa crus-galli* biocontrol (347)

12:45-13:00 Daisuke Kurose, Naruto Furuya, Kenichi Tsuchiya, Seiya Tsushima, Harry C. Evans, Marion K. Seier: The potential of the heterothallic leaf-spot, *Mycosphaerella polygoni-cuspidati*, for control of Japanese knotweed (329)

13:00-13:15 Poster summary presentation (S. Boyetchko)

13:15-14:30 **Lunch**

14:30-16:00 **Concurrent sessions 22 - 28**

Session 22 *HERBICIDE RESISTANCE: Genomics and Cytogenetics - Chair: K. Ravet (US)*
Hall: Meridian

14:30-15:00 **Keynote:** Mithila Jugulam, Dal-Hoe Koo, Dallas E. Peterson, Bernd Friebe, Bikram S. Gill: Physical mapping of *EPSPS* copies on chromosomes of glyphosate-resistant *Amaranthus* species (726)

15:00-15:15 Karl Ravet, Eric L. Patterson, Philip Westra, Patrick J. Tranel, Todd A. Gaines: Using multiple sequencing platforms to assemble the genome of *Kochia scoparia* (717)

15:15-15:30 Anita Küpper, Harish K. Manmathan, William B. McCloskey, Eric L. Patterson, Scott J. Nissen, Scott D. Haley, Todd A. Gaines: Population genomics of glyphosate-resistant Palmer amaranth (*Amaranthus palmeri*) using genotyping-by-sequencing (GBS) (552)

15:30-15:45 Catarine Markus, Ales Pecinka, Viviane R. Elsner, Christian Menegaz, Aldo Merotto Jr.: Functional epigenetic regulation is required for herbicide resistance in *Arabidopsis thaliana* (415)

15:45-16:00 Poster summary presentation (K. Ravet)

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Session 23 **HERBICIDE RESISTANCE: Evolution and Climate Change - Chair: A. Lawton-Rauh (US)** **Hall: Tycho**

- 14:30-15:00** **Keynote:** Maor Matzrafi, Baruch Rubin, Zvi Peleg: Climate changes increase the risk for herbicide resistance evolution (111)
- 15:00-15:15** Dagmar Rissel, Lena Ulber: Evolution of herbicide resistance in *Apera spica-venti* as a consequence of repeated herbicide applications (163)
- 15:15-15:30** Tom Kliper, Zvi Peleg, Baruch Rubin: Effect of crop management on the evolution of herbicide resistance weed populations in field crops (218)
- 15:30-15:45** Marielle Babineau, Solvejg K. Mathiassen, Michael Kristensen, Per N. Kudsk: Spatial gradient and fitness cost of enhanced metabolism in ALS inhibitor herbicide resistant *Apera spica-venti* populations in Denmark (49)
- 15:45-16:00** Poster summary presentation (A. Lawton-Rauh)

Session 24 **WEED MANAGEMENT IN CROPS AND NON-AGRICULTURAL LAND: Weed Control in Plantation Crops - Chair: C. Manechote (TH)** **Hall: Stella**

- 14:30-15:00** **Keynote:** Timothy W. Miller, Carl R. Libbey: Effect of autumn simazine with late-dormancy herbicide applications in matted-row strawberry (29)
- 15:00-15:15** Elissavet Gavriil, Ilias Eleftherohorinos, Petros Tarantilis, Stevan Knezevic, Christos Anagnostopoulos, Garifalia Economou: Can we apply an Integrated Weed Management (IWM) in oregano crop without effect on its quantitative and qualitative characteristics? (393)
- 15:15-15:30** Rodrigo Figueroa, Andrea Leiva, Gabriela Cordovez: New alternatives for weed management on avocado (*Persea americana* cv. Hass) trees cultivated on slope conditions in Chilean central valley (458)
- 15:30-15:45** Navneet Kaur, Rishi I.S. Gill, Baljit Singh, Makhan S. Bhullar: Weed management in poplar-turmeric based agroforestry systems in Northern India (797)
- 15:45-16:00** Poster summary presentation (C. Manechote)

Session 25 **WEED MANAGEMENT IN CROPS AND NON-AGRICULTURAL LAND: Glyphosate Reality and Use in Different Crops - Chair: H. Mennan (TR)** **Hall: Aquarius + Taurus**

- 14:30-15:00** **Keynote:** Ivo O. Brants: Facts and myths of glyphosate (734)
- 15:00-15:15** Armin Wiese, Michael Schulte, Ludwig Theuvsen, Horst H. Steinmann: Drivers for glyphosate use in German arable farming (277)
- 15:15-15:30** Laurie A. Koning, David Sefzat, Bärbel Gerowitt: Does a glyphosate-induced weed shift exist in northern Germany's winter wheat? (129)
- 15:30-15:45** Becke Strehlow, Friederike de Mol, Bärbel Gerowitt: Crop rotation and herbicide use evaluated together by structural equation models (391)
- 15:45-16:00** Poster summary presentation (H. Mennan)

Session 26 **WEED ECOLOGY: Weed Distribution, Surveys and Mapping / Weed Community Dynamics - Chair: S. Singh (IN)** **Hall: Nadir**

- 14:30-15:00** **Keynote:** Emily S. J. Rauschert, David A. Mortensen: The natural and human-mediated spread of an invasive plant, *Microstegium vimineum* (823)
- 15:00-15:15** Alexandre F. Castilho, Rafael G. Viana, Yanna K. S. Costa, Roberthi A. C. Teixeira, Renata T. S. Santos, Cintia H. Marega, Joseane M. Viana: Invasive exotic plants of Carajás National Forest, Brazil (692)
- 15:15-15:30** Fernanda S. Ikeda, Lucas Menegatti, João V. L. Inácio: A comparison of structure and floristic composition of weed seedbanks within and between different forest restoration systems during three years (676)
- 15:30-15:45** Zahid Hanif, Peter Prentice, Steve Adkins: Understanding weed invasion: a comparison of the functional traits of two populations of *Parthenium* weed and the implications for management (527)
- 15:45-16:00** Poster summary presentation (S. Singh)

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Session 27 *CROP-WEED INTERACTIONS: Parasitic Weeds - Chair: J. Rodenburg (TZ)* Hall: Kepler

- 14:30-15:00** **Keynote:** Steven M. Runo, Loren Honaas, Mark Wamalwa, Claude de Pamphilis, Michael P. Timko: *Striga/sorghum* arms race during domestication as revealed by Dual RNA-seq (283)
- 15:00-15:15** Mihály Zalai, Zita Dorner, Zoltán Pálkás, Mihály Perczel: Greenhouse and open-field testing methods for infection and virulence of broomrape (*Orobancha cernua*) in sunflower (*Helianthus annuus*) (331)
- 15:15-15:30** Amnon Cochavi, Tal Rapaport, Arnon Karnieli, Hanan Eizenberg, Jhonathan Ephrath, Shimon Rachmilevich: Early recognition of broomrape parasitism by physiological measurements and narrow-band spectral signatures (413)
- 15:30-15:45** Oz Bendavid, Hanan Eizenberg, Baruch Rubin: Integrated approach for alleviating the injury of sunflower broomrape (*Orobancha cumana*) in sunflower (499)
- 15:45-16:00** Poster summary presentation on Allelopathy and Herbicides (J. Rodenburg)

Session 28 *HERBICIDES AND APPLICATION TECHNOLOGY: New Product Concepts - Chair: D. Dodds (US)* Hall: Zenit

- 14:30-15:00** **Keynote:** Gerassimos G. Peteinatos, Jonas F. Weber, Simon Hotz, Roland Gerhards: Using a chlorophyll fluorescence sensor to assess herbicide stress in soybean (298)
- 15:00-15:15** Karel Sikora, Morten Nygaard, Xavier De Gaujac, Roger Gast: Arylex™ active (halauxifen-methyl): A new herbicide active for post-emergence control of broadleaved weeds in winter oil seed rape (500)
- 15:15-15:30** Roger E. Gast, Marcos Baez Buchanan, Daniel C. Cummings, Borja Clemente, Xavier de Gaujac, Jeffery M. Ellis, Raphael L. Frene, Peter Nott, Luiz H. Zobiolo: Control of *Conyza* species with Arylex™ Active (halauxifen-methyl) (600)
- 15:30-15:45** Gonzalo Berhongaray, Valeria Selva, Diego Righi: Restoration of yield loss caused by herbicides using plant growth regulators (85)
- 15:45-16:00** Poster summary presentation (D. Dodds)
- 16:00-17:00** Discussions with plenary and keynote speakers (Hall: Meridian)
- 17:00-18:30** Weed Societies Introduction (Hall: Meridian)

WEDNESDAY 22 JUNE, 2016

- 8:00-20:00** Excursions (return time can differ according to individual tours)

THURSDAY 23 JUNE, 2016

- 8:30-9:30** **Plenary session**
Invited plenary presentation: Lewis H. Ziska: Climate Change, CO₂ and the consequences for weed biology: Threats and opportunities (Hall: Meridian)
- 9:30-10:00** **Coffee break**
- 10:00-11:30** **Poster session II**

11:30-13:00 Concurrent sessions 29 - 36

Session 29 *BIOLOGICAL WEED CHARACTERISTICS: Genetic Approaches - Chair: H. Darmency (FR)* Hall: Kepler

- 11:30-12:00** **Keynote:** Do-Soon Kim, Gyungju Nah, Jin-Won Kim, Ji-Hoon Im: Potential answers to the question what made *Echinochloa* species a global weed: phenome and genome aspects (267)

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- 12:00-12:15** Muhamad S. Mispan, Xing-You Gu: Multiple loci and epistatic interactions regulate flowering responses of weedy rice to day-length in temperate areas (670)
- 12:15-12:30** Toshiyuki Imaizumi: Transcriptome analysis during seed dormancy cycling in *Monochoria vaginalis* (246)
- 12:30-12:45** Xing-You Gu, Heng Ye, Alexandra Kena: Use of seed dormancy genes as silencing targets to mitigate the risk of gene flow from transgenic into weedy rice (632)
- 12:45-13:00** Poster summary presentation (H. Darmency)

Session 30 *WEED MANAGEMENT IN CROPS AND NON-AGRICULTURAL LAND: Weed Management Options for Specific Situations - Chair: B. Martins (BR)*
Hall: Leo

- 11:30-12:00** **Keynote:** William S. Curran, Katherine E. Caswell, Steven B. Mirsky, Gregory W. Roth, Matthew R. Ryan, Wallace M. John: Opportunities and challenges to interseeding cover crops in corn (*Zea mays* L.) (397) kindly presented by Jess Bunche
- 12:00-12:15** Anders T. S. Nilsson: Control of black grass (*Alopecurus myosuroides* Huds.) by integrated weed management (418)
- 12:15-12:30** Taslima Zahan, Moshir Rahman, Abul Hashem, Richard W. Bell, Mahfuza Begum: Herbicidal weed control in wheat under strip tillage system as a practice of conservation agriculture (666)
- 12:30-12:45** David P. Talbot, John Atwood: UK Container grown nursery stock – residual herbicide programmes (250)
- 12:45-13:00** Poster summary presentation (B. Martins)

Session 31 *WEED MANAGEMENT IN CROPS AND NON-AGRICULTURAL LAND: Weed Management in Cotton and Soybean - Chair: B. Chauhan (AU)*
Hall: Tycho

- 11:30-12:00** **Keynote:** Jeff A. Werth, David F. Thornby, James Hereward, Michelle D. Keenan, Bhagirath S. Chauhan: Managing herbicide resistance in herbicide-tolerant cotton in Australia: The situation now and planning for future traits (548)
- 12:00-12:15** Gyula Pinke, Katinka Blazsek, Katalin Nagy, Péter Karácsony, László Magyar, Bálint Czúcz, Zoltán Botta-Dukát: Weed species composition of soybean crops in Hungary is influenced by management and environmental factors (843)
- 12:15-12:30** Lokanath H. Malligawad, Basavaraj M. Khadi, Digambarappa P. Biradar: Bio-efficacy and phyto-toxicity of imazethapyr on control of weeds in groundnut and soybean and its residual toxicity on succeeding cereal crops (95)
- 12:30-12:45** Rosemary I. Ahom, Ruth O. Obekpa: Sensitivity of soybean varieties to treatment with pendimethalin, a pre-emergence herbicide (512)
- 12:45-13:00** Poster summary presentation (B. Chauhan)

Session 32 *WEED ECOLOGY: Weed Physiology (Genetics) - Chair: C. Schaedler (BR)*
Hall: Nadir

- 11:30-12:00** **Keynote:** Ian C. Burke, Nevin Lawrence: Variation and genetic control of vernalization in *Bromus tectorum* (445)
- 12:00-12:15** Hae-rim Park, Min-jung Yook, Gyoung-ju Nah, Do-soon Kim: Weedy risks of hybrids between GM soybean (*Glycine max*) and wild soybean (*Glycine soja*) (220)
- 12:15-12:30** Anderson L. Nunes, Serleni G. Sossmeier, Ana P. Gotz: Ecophysiology of germination and emergence of physalis: a small fruit with high nutritional value (461)
- 12:30-12:45** Jan Pergl, Jiří Sádlo, Petr Petřík, Jiří Danihelka, Jindřich Chrtěk, Martin Hejda, Lenka Moravcová, Irena Perglová, Kateřina Štajerová, Petr Pyšek: Ornamental plants as a source for spontaneous flora of the Czech Republic (749)
- 12:45-13:00** Poster summary presentation (C. Schaedler)

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Session 33 **AGRICULTURAL, ECONOMIC AND SOCIETAL ASPECTS OF WEED MANAGEMENT: Weed Management Perspectives - Chair: C. Sprague (US)** Hall: Stella

- 11:30-12:00** **Keynote:** Martin J. Harries, Geoffrey C. Anderson: Western Australia's changing farming systems: the unintended impacts of managing herbicide resistant weeds successfully (539)
- 12:00-12:15** John Cardina: Weed species shifts: Insights from recent and historical data (424)
- 12:15-12:30** James Steffel, Patrick Stephenson: Effective management strategies for resistant weed species - A global perspective (423)
- 12:30-12:45** Chaoxian Zhang, Zhaofeng Huang, Hongjuan Huang, Shouhui Wei: Weeds, their impact and management in China (219)
- 12:45-13:00** Christoph J. Mayer, Michael F. Geiger, Anne Thompson, John Wright, Stefania Loutseti, Tilghman Hall, Giovanna Meregalli, Jo Davies, Peter Sutton: Impact analysis for the analysis of herbicides based on proposals indicated by EFSA - an industry perspective (387)

Session 34 **NON-CHEMICAL WEED CONTROL TOOLS: Cultural Methods** - Chair: P. Bàrberi (IT) and M. Riemens (NL) Hall: Zenit

- 11:30-12:00** **Keynote:** Martin M. Williams II, Eunsoo Choe: Maize tolerance to plant competition: evidence of both progress and opportunity (67)
- 12:00-12:15** Luiz A. O. Penha, Telma Passini: Intercropping cover crops to unweeded soybean yield in no-till system (542)
- 12:15-12:30** Lena D. Syrový, Sabine Banniza, Steven J. Shirtliffe: Managing weeds in organic field pea (*Pisum sativum*) with leaf-type cultivar mixtures (365)
- 12:30-12:45** Lars Olav Brandsæter, Kjell Mangerud, Ilevina Sturite, Kirsten S. Tørresen: Effects of management practices on control of docks (*Rumex* spp.) (701)
- 12:45-13:00** Poster summary presentation (P. Bàrberi)

Session 35 **HERBICIDES AND APPLICATION TECHNOLOGY: Formulations, Adjuvants and Tank-Mixtures** - Chair: G. Kruger (US) Hall: Meridian

- 11:30-12:00** **Keynote:** Andreas van Almsick, Lothar Willms, Christopher Rosinger: HPPD Inhibitors in combination with safeners: Modern solutions for sustainable agriculture (592)
- 12:00-12:15** Justyna M. Prusinska, Mussa Quareshy, Veselina Uzunova, Jared Bell, Richard M. Napier: Auxin receptor variants as discovery platforms for new auxinics (628)
- 12:15-12:30** Yaakov Goldwasser, On Rabinovitz, Hadar Kuzukaro, Moshe Sibony, Baruch Rubin: *Cuscuta campestris* control with granular pendimethalin in chickpea and watermelon (514)
- 12:30-12:45** Viji Nagarajan, Chinnamuthu C. R.: *In vivo* generation of hydroxyl radical by titanium dioxide nano catalyst to break the dormancy of the world's worst weed purple nutsedge (668)
- 12:45-13:00** Poster summary presentation (G. Kruger)

Session 36 **WORKSHOP ON GRASS WEED GENOMICS 1** Hall: Aquarius + Taurus

- 11:30-11:40** Karl Ravet and Hansjoerg Kräbmer: Introduction
- 11:40-12:00** Phil Westra, Andrew Wiersma, Dean Pettinga, Eric Patterson, Franck Dayan, Patrick J. Tranel, Karl Ravet, Daniel Sloan, Todd Gaines: Weed genomes as potential sources of new, adaptive agronomic traits: a summary of *Kochia scoparia* research in North America (834)
- 12:00-12:20** Katerina Hamouzova, Karl Ravet: Current state of genomics research in European most important herbicide-resistant weed grasses: a review (841)
- 12:20-12:40** Torben Asp: Strategies for genome sequencing, comparative genome analysis and genomic prediction in grasses (842)
- 12:40-13:00** Karl Ravet and Hansjoerg Kräbmer: Introduction to World Cafe

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13:00-14:30 **Lunch**

14:30-16:00 **Concurrent sessions 37 - 44**

Session 37 *BIOLOGICAL WEED CHARACTERISTICS: Traits of Invasives - Chair: G. Bourdot (NZ)*
Hall: Kepler

14:30-15:00 **Keynote:** Stephen J. Novak, Shane K. Skaar, Morgan Peters, Joseph H. Rausch, Carly Prior, James F. Smith, Marcelo Serpe, Rene F. H. Sforza: Identifying the geographic origins for the invasion of *Taeniatherum caput-medusae* (medusahead) in the western United States: evidence for multiple introductions, founder effects and prior adaptation (707)

15:00-15:15 Prasanta C. Bhowmik: Significance of *Heracleum mantegazzianum*: An invasive weed species (52)

15:15-15:30 Martin Bitomský, Šárka Cimalová: Which physical traits of weed seeds determine food preferences of granivorous ground beetles (Coleoptera: Carabidae)? (656)

15:30-15:45 Amber L. Hauvermale, Nevin C. Lawrence, Ian C. Burke: Seed dormancy and dormancy loss contribute to adaptability in the invasive weed species, downy brome (*Bromus tectorum* L.) in Pacific Northwest dryland crop production areas (449)

15:45-16:00 Poster summary presentation (G. Bourdot)

Session 38 *WEED MANAGEMENT IN CROPS AND NON-AGRICULTURAL LAND: Integration of Tactics for Weed Management in Root, Tuber Crops and Vegetables - Chair: C. Maneechote (TH)*
Hall: Leo

14:30-15:00 **Keynote:** Don W. Morishita, Kelli M. Belmont, Erik J. Wenninger, Howard W. Neibling: Effect of tillage, irrigation and nitrogen rates on weeds, insects, and sugar beet yields (142)

15:00-15:15 Chanya Maneechote, Yurawan Anantanamane, Pruchaya Ekkatin, Supattra Choakongjak, Nimit Wongsuwan, Jaranya Pinsupa, Benjamas Kumsueb, Anucha Laoken, Nataya Sopa, Sasithorn Praprom: Integrated weed management for the reduction of weed control cost in cassava (741)

15:15-15:30 Kostyantyn Bezhin: The evaluation of two weed control strategies in sugar beet and the study of crop-weed interaction in Russia and Germany (211)

15:30-15:45 Jaroslav Šuk, Miroslav Jursík: Degradation of different ACCase inhibitors in vegetables (311)

15:45-16:00 Poster summary presentation (C. Maneechote)

Session 39 *WEED MANAGEMENT IN CROPS AND NON-AGRICULTURAL LAND: Invasive Species / Weed Management in Hard Scapes - Chair: C. Mallory-Smith (US)*
Hall: Tycho

14:30-15:00 **Keynote:** Brian W. van Wilgen, Andrew M. Wannenburgh: Achievements and challenges in South Africa's environmental weed control programme (275)

15:00-15:15 Francesca Casella, Maurizio Vurro, Angela Boari: Restoration of areas infested by *Ailanthus altissima* in the Alta Murgia National Park: experience within a LIFE project (730)

15:15-15:30 Ilektra Kanellou, Paraskevi Dimou, Dionissios Kalivas, Garifalia Economou-Antonaka, Maria Papafotiou: The wild and undesired vegetation in Mediterranean historic sites (431)

15:30-15:45 Raj Prasad: Weeds on federal lands in British Columbia (35)

15:45-16:00 Poster summary presentation (C. Mallory-Smith)

Session 40 *WEED ECOLOGY: Seeds and Soil Seedbank - Chair: C. Schaedler (BR)*
Hall: Nadir

14:30-15:00 **Keynote:** Phil S. Allen: Summer interactions between host and pathogen in the *Pyrenophora semeniperda* - *Bromus* pathosystem (663)

15:00-15:15 Paula R. Westerman, Lia Hemerik, Wopke van der Werf, Tjeerd-Jan Stomph, Tom van Mourik: Density-dependent population regulation in the hemi-parasite, *Striga hermonthica*, on sorghum (91)

15:15-15:30 Pavel Saska, Alois Honěk, Zdenka Martinková: The duration of seed burial in soil and their consumption

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rates by carabid beetles after exhumation (165)

15:30-15:45 Marjolein E. Lof, Matthias Albrecht, Zita Dörner, Martin H. Entling, Brice Giffard, Herman Helsen, Bart Heijne, Philippe Jeanneret, John M. Holland, Riina Kaasik, Gabriella Kovacs, Anna-Camilla Moonen, Sonja Pfister, Jens Schirmel, Louis Sutter, Márk Szalai, Eve Veromann, Wopke van der Werf: Weed seed predation in arable crops relates to semi-natural habitats in European landscapes (425)

15:45-16:00 Summary presentation (C. Schaedler)

Session 41 *AGRICULTURAL, ECONOMIC AND SOCIETAL ASPECTS OF WEED MANAGEMENT: Directed Weed Management - Chair: C. Sprague (US)*
Hall: Stella

14:30-15:00 **Keynote:** Fernando Pellegrini, Ambrogio Costanzo, Daniele Antichi, Paolo Barberi: Participatory action research for weed management (222)

15:00-15:15 Makhan Singh Bhullar, Sukhpal Singh, Sunny Kumar, Gurjeet Gill: Long-term impacts of direct-seeded rice in Punjab State of India: weed dynamics, crop productivity and economic analysis at farmers' fields (328)

15:15-15:30 Deirdre Lemerle, Michael J. Widderick, Toni Nugent: Improved weed management to increase adoption of conservation agriculture, lift farmers' profits and protect environmental health in the Asian-Pacific Region (553)

15:30-15:45 Hamidreza Sasanfar, Mehdi Rastgoo, Eskandar Zand, Abdolreza Bagheri, Mohammad Hassan H. Rashed Mohassel: Diversity of cross-resistance patterns to ACCase-inhibiting herbicides in wild oat (*Avena ludoviciana*) biotypes (448)

15:45-16:00 Poster summary presentation (C. Sprague)

Session 42 *NON-CHEMICAL WEED CONTROL TOOLS: Integrated Approaches - Chair: P. Barberi (IT) and M. Riemens (NL)*
Hall: Zenit

14:30-15:00 **Keynote:** Lammert Bastiaans: How to target weed problems if we are to rely less on herbicides? (465)

15:00-15:15 Rebecca J. Champagne, William S. Curran, Clair Keene, John M. Wallace, Tosh R. Mazzone: Alternatives for reducing tillage in organic annual grain systems: Implications for weed management (231)

15:15-15:30 Francisco Valencia, Jordi Civit, Joan Esteve, Jordi Recasens: Cover-crop management to control *Cynodon dactylon* in vineyards: balance between efficiency and sustainability (156)

15:30-15:45 Douglas Doohan, Warren Dick, Steven Culman, Catherine Herms, Laura Lindsey, Matthew Kleinhenz, Subbu Kumarappan, Alan Sundermeier: Participatory research on the basic cation saturation ratio approach to soil management: effects on weed communities, soils and crops in an organic grain rotation (434)

15:45-16:00 Poster summary presentation (M. Riemens)

Session 43 *HERBICIDES AND APPLICATION TECHNOLOGY: Formulations, Adjuvants and Tank-Mixtures - Chair: J. P. Cunha (BR)*
Hall: Meridian

14:30-15:00 **Keynote:** Martin Reisser, Jan Guse, Michael Burnet, Jonathan Gressel: Novel high capacity slow release herbicide formulations with new uses (837)

15:00-15:15 Peter J. Dittmar: Effect of water salinity used in the spray solution on crop tolerance and weed control (450)

15:15-15:30 Darrin M. Dodds, Chase A. Samples, Greg Kruger: Impact of deposition aids on herbicide penetration into crop canopies (421)

15:30-15:45 Imtinen Ben Haj Jilani, Samir Chebil, Ramla Khiari, Imen Melki, Samia Limam-Ben Saad, Amina Daoud-Bouattour, Zeineb Gammar-Ghrabi: Herbicidal potential of some essential oils vis-à-vis three noxious weed species invading cereals (19)

15:45-16:00 Poster summary presentation (J. P. Cunha)

Session 44 *WORKSHOP ON GRASS WEED GENOMICS 2*

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14:30-16:00 World Cafe (Hall: Aquarius + Taurus)

16:00-17:30 IWSS General Assembly (Hall: Meridian)

19:00 Gala Dinner (Žofín Palace)

FRIDAY 24 JUNE, 2016

8:30-9:30 **Plenary session**

Invited plenary presentation: Petr Pyšek: Global perspectives on plant invasions (Hall: Meridian)

9:30-10:00 **Coffee break**

10:00-12:00 **Concurrent sessions 45 - 51**

Session 45 *HERBICIDE RESISTANCE: Herbicide Resistance Management - Chair: R. Beffa (DE)* *Hall: Meridian*

10:00-10:30 **Keynote:** K. Neil Harker, John T. O'Donovan, Robert E. Blackshaw, Eric N. Johnson, Denis Pageau, Steven J. Shirtliffe, Robert H. Gulden, John Rowsell, Linda M. Hall, Christian J. Willenborg: Crop rotations and cultural practices control wild oat (*Avena fatua*) (184)

10:30-10:45 Abul Hashem, Catherine Borger: Lime improves control of resistant wild radish (*Raphanus raphanistrum*) and rigid ryegrass (*Lolium rigidum*) in low pH soils in Western Australia (126)

10:45-11:00 Christopher Preston: Management of glyphosate resistant weeds in Australia (114)

11:00-11:15 Micheal D. K. Owen: Herbicide-resistant weed management must include more than herbicides (36)

11:15-11:30 Peter H. Sikkema, Nader Soltani: Glyphosate-resistant *Conyza canadensis* control in a corn/soybean/winter wheat rotation in Canada (168)

11:30-11:45 Hugh J. Beckie, Robert E Blackshaw, Eric N. Johnson, Linda M. Hall: Seed-mediated gene flow in *Kochia scoparia* (15)

11:45-12:00 Poster summary presentation (R. Beffa)

Session 46 *BIOLOGICAL WEED CHARACTERISTICS: Dispersal and Survival - Chair: H. Darmency (FR)* *Hall: Stella*

10:00-10:30 **Keynote:** Michael Renton, David Savage, Catherine Borger: Seed abscission sensitivity to wind orientation and speed may have evolved to optimise dispersal of wind-dispersed weeds (113)

10:30-10:45 Hansjoerg Kraehmer: Grass nodes and meristems of selected grass species as key elements for the explanation of systemic effects of herbicides (486)

10:45-11:00 Martina Keller, Lisa M. Eppler, Lutz Collet, René Total: Differences in seed production between self-pollinated and crossed *Cyperus esculentus* plants originating from different regions in Switzerland (650)

11:00-11:15 Carlos E. Schaedler, Ricardo M. Scalcon, João V. A. Santos, Eduardo B. Azevedo, Fabiane Q. Rosa, Diego B. David, Leandro Vargas: Endozoochory dispersal and germination of *Lolium multiflorum* resistant to EPSPS-inhibiting herbicides (398)

11:15-11:30 Juliane Hahn, Paula R. Westerman, Monika Heiermann, Bärbel Gerowitt: Survival of seeds from species of a wild-flowering mixture in ensiling, anaerobic mesophilic digestion and storage of digestate at laboratory scale (151)

11:30-11:45 Yifat Yair, Moshe Siboni, Hanan Eisenberg, Baruch Rubin: Germination ecology and early growth of *Ambrosia confertiflora* in Israel (374)

11:45-12:00 Poster summary presentation (H. Darmency)

Session 47 *WEED MANAGEMENT IN CROPS AND NON-AGRICULTURAL LAND: Invasive and Aquatic Species - Chair: M. Zapiola (AR)*

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Hall: Aquarius + Taurus

- 10:00-10:30 **Keynote:** Neha Goyal, Gyan Prakash Sharma: Trait modulations to irradiance: a key to *Ricinus* (394)
- 10:30-10:45 Kathryn M. Barlow, David A. Mortensen: Native perennial grasses tolerate reclamation challenges (253)
- 10:45-11:00 Robert J. Richardson, Justin J. Nawrocki: *Monoecious hydrilla* biology and strategies (350)
- 11:00-11:15 Derek J. Sebastian, Scott J. Nissen: A potential new herbicide for invasive annual grass control on rangeland (819)
- 11:15-11:30 Luiz Lonardoní Foloni, Edvaldo Domingues Velini: Environmental impact of glyphosate use in the control of invasive plant (330)
- 11:30-11:45 Peter Ferus, Dominika Bošiaková, Jana Konôpková, Peter Hořka, Géza Kósa, Sergiy Kots: Suppression of invasive black locust (638)
- 11:45-12:00 Poster summary presentation (M. Zapiola)

Session 48 **WEED ECOLOGY: Weed Management, Dynamics and Biodiversity - Chair: E. Camargo (BR)** Hall: Nadir

- 10:00-10:30 **Keynote:** Hanwen Wu, Md Asaduzzaman: Can herbicides affect seed dormancy and viability of flaxleaf fleabane (*Conyza bonariensis*) (661)
- 10:30-10:45 Regina G. Belz, Aki Sinkkonen: Can low-dose effects of herbicides shift a weed population? – A case study with ALS-inhibitors and *Matricaria inodora* L. (273)
- 10:45-11:00 Matthias Schumacher, Roland Gerhards: The influence of farming and weed biodiversity on seed predation (166)
- 11:00-11:15 Aldo Merotto, Tiago Kaspary, Mariah Dupont Mattei, Rafael Rafaeli: Identification of variability to flooding during germination in weedy red rice (795)
- 11:15-11:30 Martin Hejda, Milan Chytrý, Kateřina Štajerová, Jan Pergl, Petr Pyšek: European grasslands as a source of weeds invading temperate areas worldwide (760)
- 11:30-11:45 Anna Florianová, Zuzana Münzbergová: The impact of *Impatiens parviflora* on native vegetation in oak-hornbeam forests (34)
- 11:45-12:00 Poster summary presentation (E. Camargo)

Session 49 **CROP-WEED INTERACTIONS: Allelopathy and Herbicides - Chair: M. Bagavathiannan (US)** Hall: Kepler

- 10:00-10:30 **Keynote:** Hisashi Kato-Noguchi, Tomotaka Itaya, Yasuomi Tada: Mode of action of rice allelochemical momilactone (564)
- 10:30-10:45 Antje Reiss, Per Kudsk, Inge S Fomsgaard, Solvejg K Mathiassen: Characterisation of the weed suppressive potential of winter cereal cultivars: the role of above-ground competition versus allelopathy in wheat, triticale and rye (153)
- 10:45-11:00 Shun Okada, Ikuro Kataoka, Arihiro Iwasaki, Hisashi Kato-Noguchi: Isolation and identification of allelopathic active substances from *Actinidia deliciosa* roots and leaves (586)
- 11:00-11:15 Prapaipit Suwitchayanon, Arihiro Iwasaki, Kiyotake Suenaga, Hisashi Kato-Noguchi: Bioactive compounds with growth inhibitory activity in fruits of *Piper retrofractum* (591)
- 11:15-11:30 Judith Wirth, Aurélie Gfeller: Strong indications for allelopathic root interactions between *Fagopyrum esculentum* and *Amaranthus retroflexus* (319)
- 11:30-11:45 Wesley Everman, Thierry Besancon, Randy Weisz, Ron Heiniger: Sorgoleone concentration varies with sorghum hybrid (480)
- 11:45-12:00 Yiqing Guo, Yiding Sun, Jian Fu, Hong Lu, Yongliang Lu, Dongsheng Tang: Allelopathy in rice from phenomena to chemicals and regulated genes (671)

Session 50 **NON-CHEMICAL WEED CONTROL TOOLS: Direct Methods** - Chair: P. Bàrberi (IT) and M. Riemens (NL) Hall: Tycho

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- 10:00-10:30** **Keynote:** Gerassimos G. Peteinatos, Judith Engländer, Roland Gerhards: Precision harrowing using a bi-spectral camera and a flexible tine harrow (293)
- 10:30-10:45** Steven A. Fennimore, Mark Hoffmann, Rachael E Goodhue: Evaluation of direct-fire steam for soil disinfestation in California strawberry (137)
- 10:45-11:00** Stevan Z. Knezevic, Avishek Datta, Strahinja V Stepanovic, Brian D Neilson, Chris A Bruening, George Gogos: Weed control with flaming and cultivation in maize and soybean (178)
- 11:00-11:15** Christoph Kunz, Dominic J Sturm, Roland Gerhards: Effect of strip tillage systems on weed suppression in sugar beets by utilizing different cover crops (7)
- 11:15-11:30** Fanouriou Elpida, Elissavet Gavriil, Petros Tarantilis, Kiriakitsa Sotirakoglou, Konstantinos Konstantopoulos, Orestis Liapatis, Panagiotis Rouvalis, Alexandros Assariotakis, Garifalia Economou: Searching for new substances with potential herbicidal action in the Mediterranean medicinal flora. From Hippocrates Medicinal School till nowadays (651)
- 11:30-11:45** Roosbeh Farhoudi, Sepideh Kouchakpour, Dong J Lee: Evaluation of safflower (*Carthamus tinctorius* cv. Koseh) extract on germination, antioxidants enzyme activity, cell membrane damage and induction of α -amylase activity of wild mustard (*Sinapis arvensis*) seeds (515)
- 11:45-12:00** Poster summary presentation (P. Bàrberi)
- Session 51** **HERBICIDES AND APPLICATION TECHNOLOGY: Affects from Herbicide Applications**
- Chair: D. Dodds (US)
Hall: Zenit
- 10:00-10:30** **Keynote:** Klara Hoyerova, Petr Hosek, Martin Kubes, Ashutosh Tropathi, Paul Neve, Richard M Napier: The auxin uptake carrier AUX1 does not carry most classes of auxinic herbicide (649)
- 10:30-10:45** On Rabinovitz, Yaakov Goldwasser, Hadar Kuzukaro, Baruch Rubin: *Phelipanche aegyptiaca* control in processing tomatoes by weekly drip chemigation of imazapic at low application rates (268)
- 10:45-11:00** Karel Klem, Petr Vitek: Detection of herbicide effects on pigment composition and PSII photochemistry in *Helianthus annuus* by Raman spectroscopy and chlorophyll a fluorescence (783)
- 11:00-11:15** Meor Badli Shah Bin Ahmad Rafie, Cheah See Siang: Rainfastness enhancement effect of adjuvants on glufosinate ammonium herbicide for weed control at high rainfall intensity in immature oil palm environment (740)
- 11:15-11:30** Ayse Yazlik, Ilhan Uremis: Integration of allelopathic solutions and herbicides for control of *Sorghum halepense* (L.) Pers. (646)
- 11:30-11:45** S. Rao Atluri: Bio-efficacy of fluzifop-*p*-butyl against grassy weeds in cotton (*Gossypium herbaceum* L.) and its residual effect on succeeding blackgram crop (528)
- 11:45-12:00** Poster summary presentation (D. Dodds)
- 12:30-13:00** Closing Ceremony (Hall: Meridian)

POSTER SESSIONS

Here we present the arrangement of posters for display during the two sessions dedicated for this purpose at the International Weed Science Congress 2016. Although there still could be some adjustments and a few sessions are being defined, we hope this poster program will suffice for helping authors with their travel plans and local schedule. Posters are arranged according to the program session as already published for oral presentations. This will help maintain adequate program structure, facilitate communication among authors with common research interests and Main Topic Organizers and Session Organizers prepare the poster summaries that will be presented at the end of each thematic session. We appreciate authors and co-authors letting us know of any correction required and to promptly indicate if they have any difficulty in presenting their posters at the designated date. We also remind authors that for posters to be maintained in the program and to be included in the proceedings, at least one of them has to be registered as a participant in the congress.

POSTER SESSION I (Monday 20 June, 2016)

posters will be displayed from Sunday afternoon (Monday morning) until Tuesday noon

Session	HERBICIDE RESISTANCE	ID
1	<u>Bernd Sievernich</u> , Alexander Menegat: Herbicidal performance of different ALS-inhibitors on black-grass (<i>Alopecurus myosuroides</i> Huds.) – Impact of non-target-site-resistance	802
1	<u>Bianca A. B. Martins</u> , Jose A. Noldin, Valdemar L. Tornisielo, Fabricia C. Reis, Decio Karam, Carol Mallory-Smith: Quinclorac absorption and translocation in cross and multiple resistant barnyardgrass (<i>Echinochloa crus-galli</i>) populations from Brazil	727
1	<u>Faisal Islam</u> , Jian Wang, Muhammad Ahsan Farooq, Rafaqat Ali Gill, Jinwen Zhu, Weijun Zhou: Butachlor inhibition of plant growth in <i>Oryza sativa</i> involves ROS-mediated oxidative damages and malfunctioning of antioxidant defense system	208
1	<u>Lingxu Li</u> , Xiaoyong Luo, Jinxin Wang: Target-site- and non-target-site-resistance mechanisms are both involved in resistance to fenoxaprop-p-ethyl in American sloughgrass (<i>Beckmannia syzigachne</i>) populations	255
1	Rupinder K. Saini, Jenna M. Malone, Guirjeet S. Gill, <u>Christopher Preston</u> : Inheritance patterns for resistance to clethodim in <i>Lolium rigidum</i> populations from Australia is variable	130
2	Alexander Menegat, <u>Bernd Sievernich</u> , Geraldine C Bailly, Raphael Aponte, Roland Gerhards: AHAS single nucleotide polymorphism Asp376Glu in <i>Lolium perenne</i> : impact on herbicide efficacy, growth traits and enzyme activity	237
2	<u>Caio A. C. G. Brunharo</u> , Eric Patterson, Daniela Carrijo, Marcel S. C. Melo, Marcelo Nicolai, Todd A. Gaines, Scott J. Nissen, Pedro J. Christoffoleti: Confirmation and mechanism of glyphosate resistance in tall windmill grass (<i>Chloris elata</i>) from Brazil	840
2	<u>Cornelia Koecher</u> , Frank Braendle, Wang Pei, Erhard Pfuendel, Hans G. Drobny, Roland Gerhards: QWERT® – a innovative system to reduce weed resistance in-season	274
2	<u>Fidel Gonzalez Torralva</u> , Stephen Chivasa: Differential proteomic analysis of glyphosate resistance in horseweed (<i>Conyza canadensis</i>)	3

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2	Franciele Mariani, Scott A. Senseman, <u>Leandro Vargas</u> , Dirceu Agostinetto, Luis A. Avila, Fernando M. Santos: Enzymatic properties and ryegrass resistance mechanism to iodosulfuron-methyl-sodium herbicide	230
2	<u>Luis López-Méndez</u> , Yinerby Quintana, Pedro Perez, Aida Ortiz: Rough sprangletop (<i>Leptochloa scabra</i> Ness) resistance to propanil	141
2	<u>Manuel Fernández-Escalada</u> , Ainhoa Zulet-González, Ana Zabalza Aznarez, Mercedes Royuela Hernando: Unravelling EPSPS regulation mechanisms in glyphosate-susceptible and -resistant <i>Amaranthus palmeri</i> populations	577
2	<u>MunMyong Choe</u> , Hunchol Kang, Inchul Kim, Minggun Wu, Imshik Lee: Sulfonylurea (SU) herbicide resistance mechanism of some acetohydroxy acid synthase (AHAS) mutants and new designed herbicides specific to the mutants	769
2	<u>Pei Wang</u> , Gerassimos Peteinatos, Hui Li, Alexander Menegat, Yasmin Kaiser, Roland Gerhards: Temperature effects on chlorophyll fluorescence of <i>Alopecurus myosuroides</i>	107
2	<u>Te-Ming Paul Tseng</u> , Erin Wilson, Brittany Jones, Jay D McCurdy: New plate assay for rapid detection and characterization of herbicide-resistant weeds	185
2	<u>Trevor K. James</u> , Hossein Ghanizadeh, Kerry C. Harrington: <i>Lolium</i> spp. in New Zealand show resistance to glyphosate through two mechanisms and resistance to glufosinate and amitrole	27
2	<u>Weitang Liu</u> , Jinxin Wang, Guohui Yuan, Wenlei Guo: ALS inhibitor resistance mutations in <i>Myosoton aquaticum</i> (L.): comparison of ALS enzyme and plant growth characteristics	155
2	<u>Xuefeng Shen</u> , Yong Chen, Zhaoxia Dong: Changes of endogenous polyamines responding to paraquat in goosegrass (<i>Eleusine indica</i> L.) seedlings	152
8	Franciele Mariani, Scott A. Senseman, <u>Leandro Vargas</u> , Dirceu Agostinetto, Luis A. Avila, Camila P. Tarouco: Rate of absorption and metabolism of the herbicide iodosulfuron-methyl-sodium in resistant and susceptible ryegrass biotypes	228
8	<u>Jan Petersen</u> : Synergists for indirect exploration of non-target-site herbicide resistance mechanisms in different <i>Alopecurus myosuroides</i> populations	206
8	<u>Ramírez-Muñoz Fernando</u> , Rangani Gulab, Jayanthi Srinivas, Salas A. Reiofeli, Burgos R. Nilda, Kumar K.S. Thallapuranam, Ana María Botero, Fabregat Neus, Valverde E. Bernal: Possible mechanisms conferring glyphosate resistance to <i>Paspalum paniculatum</i> biotypes from Costa Rica	776
8	<u>Tae Seon Park</u> , Keon Hui Lee: Control and cross-resistance of barnyardgrass to ALS- and ACCase-inhibitors in rice fields in Korea	489
9	Alexander Menegat, <u>Bernd Sievernich</u> , Robin Mink, Alexander Linn, Roland Gerhards: Development of a standardised test system for detection of resistance against pre-emergence herbicides	381
9	Chanya Maneechote, <u>Pruchya Ekkatin</u> , Yurawan Anantanamanee, Sansanee Jamjod: Situation of multiple resistance in barnyardgrass (<i>Echinochloa crus-galli</i> L. Beauv.) across the rice fields	742

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9	<u>Dominik Dicke</u> , Christian Henschke, Jan Petersen, Roland Gerhards: Investigations on <i>Apera spica-venti</i> (L.) P. Beauv. (loose silky-bent grass) resistance against herbicides from different HRAC- classes in the federal state Hesse, Germany	598
9	<u>Lammert Bastiaans</u> , Silvia Panozzo, Per Kudsk, Eshagh Keshtkar, Wopke van der Werf, Niels Holst, Solvejg K Mathiassen, Laura Scarabel, Maurizio Sattin: From field experiments to modelling of herbicide resistance evolution	404
9	<u>Michael Renton</u> , Gayle Somerville: Alien invaders in space: adding the spatial dimension to models of weed populations	112
9	<u>Theodoro Schneider</u> , Katia Trevizan, Mauro A Rizzardi: Competitive ability of ryegrass cultivars in relation to glyphosate resistant and susceptible to glyphosate	86
15	<u>Bruno Canella Vieira</u> , Spencer L. Samuelson, Greg R. Kruger: Distribution of glyphosate-resistant Palmer amaranth (<i>Amaranthus palmeri</i> S. Wats.) in Nebraska, U.S.	493
15	David Oliveira, Ana Monteiro, <u>Isabel M. Calha</u> : Rice weed resistance in Portugal	313
15	<u>Guo Lan Ma</u> , Du Cai Liu, Xue Yuan Liu, Ya Jun Peng: Resistance to penoxsulam and quinclorac in <i>Echinochloa crus-galli</i> in double cropping rice area of southern China	280
15	Guohui Yuan, <u>Jinxin Wang</u> , Weitang Liu, Long Du: Resistance to ACCase-inhibiting herbicides in a keng stiffgrass (<i>Pseudosclerochloa kengiana</i>) population in China	154
15	<u>Guo-qi Chen</u> , Jun Li, Li-yao Dong: Herbicide resistance in wheat lands in China	64
15	<u>Hailan Cui</u> , Xiangju Li: The distribution of ACCase-inhibiting resistant American sloughgrass (<i>Beckmannia syzigachne</i>) in China wheat fields	336
15	<u>Hamidreza Sasanfar</u> , Mehdi Rastgoo, Eskandar Zand, Abdolreza Bagheri, Mohammad Hassan H. Rashed Mohassel: Diversity of cross-resistance patterns to ACCase-inhibiting herbicides in wild oat (<i>Avena ludoviciana</i>) biotypes	448
15	Hüsrev Mennan, <u>Emine Kaya Altop</u> , Songül Erken, Kianoosh Haghnama: Determination of ALS and ACCase inhibiting herbicide resistant biotypes of <i>Lolium</i> spp. in wheat fields	304
15	<u>Ineta Vanaga</u> , Linda Ulmane, Roland Beffa, Alberto Collavo: Monitoring herbicide resistance development in <i>Apera spica-venti</i> (APESV) in Latvia	736
15	Jinwen Zhu, Hongye Li, Zengrong Zhu, Guiping Zheng, Bing Liu, Yaguang Liu, <u>Weijun Zhou</u> , Shaonan Li: Cross resistance to ALS inhibitors of <i>Ammannia arenaria</i> and its competition with paddy rice	143
15	<u>João Portugal</u> , Isabel M. Calha, Rafael De Prado: Increasing weed cover of <i>Epilobium</i> sp. and <i>Conyza</i> spp. in olive groves from Alentejo, South Portugal	370
15	<u>Joel Torra</u> , Jordi Rey-Caballero: Multiple herbicide resistance in corn poppy (<i>Papaver rhoeas</i>)	188

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| 15 | Kinga Matysiak, Roman Kierzek: <i>Papaver rhoeas</i> (L.) and <i>Tripleurospermum maritimum</i> ssp. <i>inodorum</i> (L.) resistant to ALS-inhibiting herbicides in Poland | 315 |
| 15 | Pavlina Kosnarova, Katerina Hamouzova, Veronika Zdarkova, Josef Soukup: Investigating the extent of herbicide resistance in problematic grass weeds in the Czech Republic | 540 |
| 15 | Rodrigo Werle, Kevin Begcy, Melinda K. Yerka, Amit J. Jhala, John L. Lindquist: Distribution and mechanism of resistance to ALS-inhibiting herbicides in shattercane and Johnsongrass populations from the north central great plains of the USA | 103 |
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| 15 | Tohru Tominaga, Kiyoku Tatsuhiro, Yoshiko Shimono, Hideki Ohdan: Single nucleotide polymorphisms in sulfonyleurea herbicide resistant <i>Alopecurus aequalis</i> populations in wheat fields, Japan | 55 |
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| 3 | Bojan Konstantinović, Nataša Samardžić, Milena Popov, Milan Blagojević, Milan Bulajić: The effect of essential oils on germination of some dicotyledonous plants | 294 |
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| 3 | Hans-Peter Söchting: Emergence behavior, plant development and control of different <i>Amaranthus</i> species in Germany | 60 |
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| 10 | <u>Fanny Vuillemin</u> , Jean Lieven: Evaluation of weeding strategies mixing chemical weed control and mechanical weed control on sunflower and rape crops | 780 |
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| 10 | Hilfred Huiting, Joachim Deru, <u>Marleen Riemens</u> , Rommie vd Weide: Weed population and weed density effects of reduced tillage in silage maize | 690 |
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| 10 | <u>Jevgenija Necajeva</u> , Zane Mintāle, Dace Piliksere, Solveiga Malecka, Dainis Lapiņš, Renāte Sanzarevskā, Gundega Putniece, Liene Spuriņa, Jolanta Čūriške, Ieva Dudele: Effect of herbicide use and field management on weed density in cereal fields in Latvia | 307 |
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