

IS-MPMI

Reporter

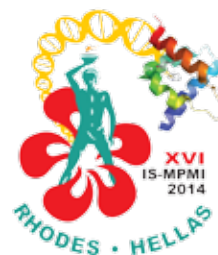
International Society for
Molecular Plant-Microbe Interactions

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What to Expect in Rhodes, Greece XVI International Congress on Molecular Plant-Microbe Interactions

From July 6 to 10, 2014, more than 1,100 already-registered participants from 55 countries around the globe will be gathered in the magnificent Mediterranean island of Rhodes, Greece, to present their current research work, participate in the scientific activities (oral and posters), interact with world-leading scientists, and discuss the future of molecular plant-microbe interactions during the XVI International Congress on MPMI.



IS-MPMI, with the laborious efforts and thoughtful ideas of President Sophien Kamoun, the International Scientific Committee, and the Local Organizing and Scientific Committee, has been working extremely hard during the last three years to put together an outstanding program that features an impressive list of 87 confirmed invited speakers (opening lecture, 32 plenary lectures, and 54 invited for the concurrent sessions, as well as another 128 selected speakers for the concurrent sessions), covering all the disciplines of research specializations in plant-microbe interactions. Currently, more than 950 abstracts have been submitted to the secretariat of the XVI International Congress, ensuring that there will be a great variability for everyone in the scientific program. The program will include topics related to microbial pathogenesis, signaling, plant immunity, symbiosis, effector biology, epigenetics, recognition of microbes, toxins and plant hormones, ecology and evolution, local and systemic resistance, biocontrol, large-scale omics, induced resistance/priming, and biotechnology, just to mention some of them.



Lindos Bay, Rhodes Island, Greece.

Courtesy Shutterstock.com/leoks



Recent Tweets

- Congratulations to the 2014 Travel Awardees! Remember to view their research at #ICMPMI2014 www.ismpmi.org/meetings/travelawards.asp
- Is crowdsourcing the future of scientific research? <http://shar.es/VwfkF>
- RT@lab_robot: From a quick @TheSainsburyLab coffee room survey it appears several students & postdocs from the lab will be talking at #mpmi2014 #yiiieha!
- We are getting excited for the XVI International Congress on MPMI; follow us for updates, and use #ICMPMI2014!

Check out
Twitter.com/ISMPMI
for the latest updates!

The scientific program of the congress opens with a special guest lecture on Sunday, July 6. **Fred Ausubel** from the Department of Molecular Biology, Simches Research Center, Harvard Medical School, Boston, MA, United States, will present the opening lecture on **Signaling in Host-Pathogen Interactions**. Ausubel contributes to a more comprehensive understanding of identifying and characterizing the molecular aspects of the process of signal transduction in prokaryotes and in hosts that interact with prokaryotes, from the discovery of virulence factors in bacteria and fungi to host defense responses in plants, insects, worms, and mammals.

We are extremely pleased to announce that more than 400 research M.Sc. or Ph.D. students are among the participants, who, with their great enthusiasm and hard work will be the future world leaders of our great research field. The program also includes ample time to take part in networking. It is beyond any doubt that face-to-face meetings with scientists in the field are more critical than ever and will help ensure that your career is on the right path. There is no better opportunity to meet top-notch speakers and researchers within specific

What to Expect in Rhodes, Greece XVI International Congress continued on page 3

IS-MPMI *Reporter*

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IS-MPMI REPORTER DEADLINE

The deadline for submitting items for the next issue is September 26, 2014.

Share your news, accomplishments, and upcoming meeting details with your colleagues. Submit articles, announcements, and any ideas you may have for the next issue. You can send an e-mail (ismpmireportereditor@scisoc.org) or submit your item online (www.ismpmi.org/newsletter/submissionform.asp).

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A Letter from the President



Sophien Kamoun,
President

Wonders of the Plant-Microbe Interactions World

Sophien Kamoun, The Sainsbury Laboratory
sophien.kamoun@tsl.ac.uk

The XVI International Congress on Molecular Plant-Microbe Interactions (IC-MPMI) will take place on 6–10 July in the beautiful and historic Greek island of Rhodes. In this issue of *IS-MPMI Reporter*, Congress Chief Organizer **Eris Tjamos** provides a final update on the congress. With more than 1,100 registered participants, the congress organizers have already achieved one of their objectives in drawing many of you to attend. They also validated the choice of Rhodes, a popular destination on the shores of the Mediterranean Sea, as a fitting venue for the congress. The registration cost structure, which favored students, also turned out to be a pertinent decision. With more than 400 students registered, the congress is poised to be a memorable event and networking opportunity not just for established scientists but also for the younger contingent of our community. On behalf of our membership and the congress participants, I express my most sincere thanks to Eris and his Local Organizing Committee for their hard and sustained work over the last two years. I am very much looking forward to what will certainly be a popular and high-quality event.

The island of Rhodes has a rich and fascinating history. During antiquity, the Colossus of Rhodes, a 30-meter-high statue of the Greek god Helios, was erected after a war victory. Along with other Greek, Egyptian, and Babylonian monuments, the Colossus is known as one of the seven wonders of the ancient world. It is therefore appropriate that the Rhodes IC-MPMI will mark the anniversary of some of the most influential publications in the MPMI field. First, we will celebrate the cloning of the first avirulence effector gene, which was published 30 years ago. Second, we will recognize a series of papers published ~20 years ago that reported the cloning of the first plant immune receptor genes. These are monumental findings—wonders of the plant-microbe interactions world. I encourage you to highlight in your congress presentations how your present work relates to these colossal discoveries. (Publication titles and authors are on page 3)

The IC-MPMI Local Organizing Committee has been painstakingly finalizing the scientific program and selecting the remaining oral presentations from the ~950 abstracts received. As reported in earlier issues of *IS-MPMI Reporter*, ~60% of all oral presentations have been selected from the abstracts to reward participants who submitted their best work. To ensure a fair and equitable system, the organizers devised an online voting system and collated votes from 90 reviewers representing the concurrent session chairs and plenary speakers. Additional concurrent sessions are being considered to enable more of you to make oral presentations.

I congratulate 45 early-stage scientists from 16 countries who received the 2014 XVI International Congress Travel Award in honor of the late Professor **Ko Shimamoto**. Many thanks to **Mary Beth Mudgett**, **Roger Innes**, and other IS-MPMI directors for overseeing the Travel Award and seeking additional student travel funds from U.S. federal agencies. One excellent innovation they introduced to this year's congress is to arrange for the travel awardees to have lunch with the plenary speakers on the day of their talks.

Our scientific community is vibrant and dynamic, but it is also built on robust knowledge that forms a solid platform for future progress. Unlike the Colossus of Rhodes, which ended up being destroyed by an earthquake only years after its construction, the wonders of the plant-microbe interactions world will continue to stand the test of time. It is our collective responsibility to ensure that our field recognizes and rewards excellent science to ensure that the next generation of plant-microbe interactions scientists stands on the shoulder of giants and delivers another round of high-impact discoveries and concepts.

It is with these thoughts that I conclude my final column for the *IS-MPMI Reporter*. My term will end after the XVI IC-MPMI, and I thank you for offering me the opportunity to serve the society. Please join me in welcoming President-Elect **Sheng Yang He** as he takes over this position after the Rhodes Congress. ■

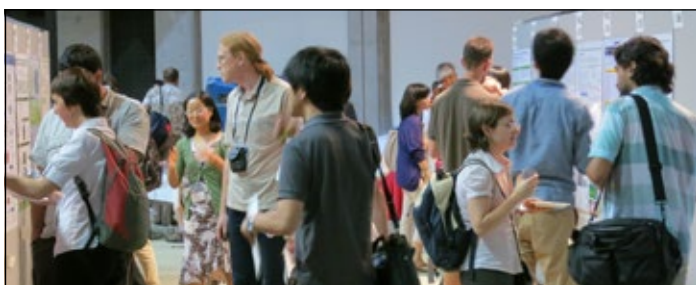
What to Expect in Rhodes, Greece XVI International Congress continued from page 1

areas of interest than at the XVI International Congress on MPMI. Networking opportunities at the meeting include the Welcome Reception on Sunday and a free Wednesday afternoon to visit the medieval city of Rhodes or participate in the excursion to the ancient city of Lindos. Finally, the Congress Gala Dinner will offer fantastic local food and drinks, exciting local and international music and dances, and entertainment till the late hours on Thursday evening. These activities will provide an important venue for making personal and professional connections that will last throughout your scientific career.

We are also pleased to celebrate this year the 20th anniversary of the first publications on cloning plant immune receptor genes and the 30th anniversary of the isolation of the first avirulence effector gene. (Articles highlighted on page 3)

As chair of the Local Organizing Committee and coordinator of the congress, I am extremely proud of the program that was created from your outstanding participation. I am personally honored to host this unique event in Greece and really excited to welcome you in Rhodes Island, Greece. You and your guests will be overwhelmed by visiting world famous ancient historical cities, a magnificent Mediterranean environment with exciting beauty, and by encountering nice cultural and traditional experiences at this congress. Visit the congress' website at www.mpmi2014rhodes-hellas.gr for complete information on the program, accommodations, travel, registration, and more.

We're looking forward to welcoming you in Rhodes Island, Greece!
Eris Tjamos, Chair
Local Organizing Committee ■



Share Your Congress Experiences on Social Media



Keep up with your colleagues and share the XVI International Congress with IS-MPMI on Facebook (facebook.com/ISMPMI) and Twitter (twitter.com/ISMPMI)! Post photos on Facebook, or tweet the top research from the plenary and concurrent sessions using #ICMPMI2014. Get ready for the XVI International Congress and get social today!



Anniversary Publications to be Celebrated at the XVI IC-MPMI, Rhodes, Greece

Cloning of the First Plant Immune Receptor Genes

Bent, A. F., Kunkel, B. N., Dahlbeck, D., Brown, K. L., Schmidt, R., Giraudat, J., Leung, J., and Staskawicz, B. J. 1994. RPS2 of *Arabidopsis thaliana*: A leucine-rich repeat class of plant disease resistance genes. *Science* 265:1856-1860.

Grant, M. R., Godiard, L., Straube, E., Ashfield, T., Lewald, J., Sattler, A., Innes, R. W., and Dangl, J. L. 1995. Structure of the *Arabidopsis RPM1* gene which enables dual-specificity disease resistance. *Science* 269:843-846.

Jones, D. A., Thomas, C. M., Hammond-Kosack, K. E., Balint-Kurti, P. J., and Jones, J. D. 1994. Isolation of the tomato *Cf-9* gene for resistance to *Cladosporium fulvum* by transposon tagging. *Science* 266:789-793.

Lawrence, G. J., Finnegan, E. J., Ayliffe, M. A., and Ellis, J. G. 1995. The *L6* gene for flax rust resistance is related to the *Arabidopsis* bacterial resistance gene *RPS2* and the tobacco viral resistance gene *N*. *Plant Cell* 7:1195-1206.

Martin, G. B., Brommonschenkel, S. H., Chunwongse, J., Frary, A., Ganai, M. W., Spivey, R., Wu, T., Earle, E. D., and Tanksley, S. D. 1993. Map-based cloning of a protein kinase gene conferring disease resistance in tomato. *Science* 262:1432-1436.

Mindrinis, M., Katagiri, F., Yu, G. L., and Ausubel, F. M. 1994. The *A. thaliana* disease resistance gene *RPS2* encodes a protein containing a nucleotide-binding site and leucine-rich repeats. *Cell* 78:1089-1099.

Song, W. Y., Wang, G. L., Chen, L. L., Kim, H. S., Pi, L. Y., Holsten, T., Gardner, J., Wang, B., Zhai, W. X., Zhu, L. H., Fauquet, C., and Ronald, P. 1995. A receptor kinase-like protein encoded by the rice disease resistance gene *Xa21*. *Science* 270:1804-1806.

Whitham, S., Dinesh-Kumar, S. P., Choi, D., Hehl, R., Corr, C., and Baker, B. 1994. The product of the tobacco mosaic virus resistance gene *N*: Similarity to toll and the interleukin-1 receptor. *Cell* 78:1101-1115.

Cloning of the First Plant Pathogen Avirulence Effector Gene

Staskawicz, B. J., Dahlbeck, D., and Keen, N. T. 1984. Cloned avirulence gene of *Pseudomonas syringae* pv. *glycinea* determines race-specific incompatibility on *Glycine max* (L.) Merr. *Proc. Natl. Acad. Sci. USA* 81:6024-6028. ■

Congratulations to the 2014 XVI International Congress Travel Awardees

The following 45 individuals received travel awards for the XVI International Congress on MPMI in 2014. The 2014 XVI International Congress Travel Awards are being named in honor of **Dr. Ko Shimamoto**. The awards are provided in recognition of his service as the chair and main organizer of the XV International Congress on MPMI that was held in Kyoto in 2012.



Cristiana M. G. T. Argueso
Colorado State University



Sebastian Eves-van den Akker
University of Leeds



Morgan Halane
University of Missouri



Laura K. Boyden
University of the West of England



Giulia Furlan
Leibniz Institute for Plant
Biochemistry



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The Sainsbury Laboratory



Bethany Huot
Michigan State University



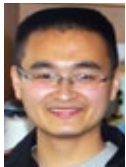
Clare Casteel
University of California



Selena Gimenez Ibanez
Spanish National Biotechnology
Centre



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Chinese Academy of Sciences



Anil Madhusoodana Girija
Centre for Cellular & Molecular
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Christine Maria Kraus
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Hannah Kuhn
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Alice Delga
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Caroline Gutjahr
LMU Munchen



Jillian M. Lang
Colorado State University



Claire L. Drurey
John Innes Centre



Mieke P. Haasbroek
University of Pretoria



Meirav Leibman-Markus
Tel Aviv University



Mauricio J. Lozano
CONICET-UNLP



Jason B. Noon
Iowa State University



Justine Sucher
University of Zurich



Lay-Sun Ma
Institute of Plant and Microbial
Biology



Alvaro L. Pérez Quintero
Université Montpellier 2



Chika Tateda
University of Chicago



Sheri McClerklin
Washington University



Clemencia M. Rojas
The Samuel Roberts Noble
Foundation



Li Wan
University of Queensland



César Augusto Medina Culma
Universidad de Los Andes



Isabel Marie-Luise Saur
The Australian National University



Yiming Wang
Max Planck Institute for Plant
Breeding Research



Jimi Miller
Yale University



Kinga Anna Sedziewska
University of Munich



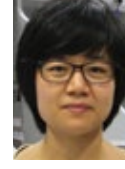
Koste A. Yadeta
University of California



Jacqueline Monaghan
The Sainsbury Laboratory



Irene María Serrano Valdivia
Indiana University



Xuan Zeng
Temasek Life Sciences Laboratory

Visit IS-MPMI in Rhodes



Remember to stop by the IS-MPMI Booth at the XVI International Congress!

You can view the new IS-MPMI website with more research-focused content and a fresh look. We will also be collecting new membership

NEW



demographics to enhance the IS-MPMI membership directory, giving you more collaboration opportunities. Update your member information and receive a free pair of IS-MPMI headphones!

See you in Rhodes!



New *MPMI* Focus Issue Will Address the Good, the Bad, and the Unknown of Genomics

Author submissions due September 30, 2014

Rapid advances in genomics offer novel opportunities and tools for exploring the biology, ecology, evolution, and diversity of plant-associated microbes and how microbial processes are interconnected with the evolution and function of plants. Considering the vast diversity of microbial species in nature, however, what we currently know only represents the very tip of the proverbial iceberg.

Molecular Plant-Microbe Interactions (MPMI) has played a leading role in disseminating new insights into plant-microbe interactions and promoting new approaches. Through a new special *MPMI* Focus Issue, entitled "The Good, the Bad, and the Unknown: Genomics-Enabled Discovery of Plant-Associated Microbial Processes and Diversity," *MPMI* will continue this role by highlighting work that is advancing the genomics-enabled discovery of plant-associated microbial processes and diversity.

MPMI Editor-in-Chief **Jane Glazebrook** and Focus Issue Editors **Gwyn Beattie**, **Darrell Desveaux**, and **Seogchan Kang** encourage authors to submit research and perspective articles on the following topics pertaining to plant-associated microbes in their interactions with plants:

- Functional genomics of individual organisms
- Comparative genomics
- Evolutionary and population genomics
- Genomic analysis and visualization tools

If you are working on research of this type, submit your papers to *MPMI* no later than September 30, 2014, and note that you would like to be considered for this Focus Issue. All papers must present new biological knowledge. Papers that are purely descriptive will not be considered.

Authors interested in submitting a review should contact one of the Focus Issue editors, Gwyn Beattie (gbeattie@iastate.edu), Darrell Desveaux (darrell.desveaux@utoronto.ca), or Seogchan Kang (sxk55@psu.edu).

Focus issues such as this offer authors multiple benefits. A single-topic issue gives scientists an opportunity to publish alongside the related work of peers to highlight progress in a focal area. This Focus Issue will be widely promoted and is expected to be highly cited, giving authors maximum exposure. Articles will also be submitted to CrossRef, allowing citation tracking and connectivity as this research area moves forward in *MPMI* and other scientific journals. Articles of this important and timely issue will also be indexed by ISI Web of Science, PubMed, and other important access portals. ■

New IS-MPMI Website Coming this Summer


Throughout the past several months, members of the IS-MPMI Board have been collaborating with our headquarters staff in St. Paul, Minnesota, to create the new IS-MPMI website. The new website will offer several new features and additional content.

The website will integrate several interactive features that will offer additional content, including archived monthly news capsules. Additionally, the homepage will highlight *MPMI* Editor's Pick and First Look titles and links to news and other items of interest to members.

Membership renewal will be easier than ever before. The new website will offer you the option to renew your membership online. If you choose, you can also enroll in our new auto-renewal program, which allows you to store your credit card or bank information (bank transfers will only be available to members in the United States and Canada in the first few months), and when your membership term is about to expire, you'll receive a communication letting you know and asking you to make any changes to your current membership selections.

Other new website features will include an enhanced membership directory, a revised Job Center, and new ways to engage with the society. We look forward to sharing the new site with you. It will be formally introduced at the XVI International Congress on MPMI in Rhodes, Greece, in July!

Simple. Targeted. Relevant. IS-MPMI Job Center



Tired of searching through hundreds of random job postings to find your next opportunity? Looking through too many online resumes that don't meet your basic criteria?

Your search is about to become a whole lot easier...


The IS-MPMI Job Center is the best targeted tool available for bringing job seekers and employers in the field together. This searchable, international database of jobs and candidates is designed specifically for those in the field of molecular plant-microbe interactions. The service is open to members and nonmembers alike, ensuring the broadest potential audience.

Job Seekers

- Find targeted opportunities by searching our current listings or by using the keyword search to find jobs in your area of expertise.
- Post your resume anonymously.
- Create job alerts.

Employers

- Easily post your jobs.
- Search the resume bank.
- Receive a \$49 discount if you are an IS-MPMI member. Enter the coupon code "IS-MPMIMember" to receive your discount.



Check out this simple, targeted, and relevant tool first-hand at www.ismpmi.org/career/ and start your search today!

Survey Results Are In—MPMI Authors and Readers Weigh In

Jane Glazebrook, University of Minnesota
jglazebr@umn.edu



Jane Glazebrook
MPMI Editor-in-Chief

Molecular Plant-Microbe Interactions (MPMI) was established by The American Phytopathological Society (APS) in 1987. Shortly thereafter, it was adopted by the International Society of Molecular Plant-Microbe Interactions (IS-MPMI). While APS still owns the journal, IS-MPMI receives an annual royalty and IS-MPMI members enjoy discounted rates for personal subscriptions. Editors-in-chief of MPMI are nominated for three-year terms by the IS-MPMI Board of Directors, subject to approval by the APS Publications Board. The editors-in-chief serve on the APS Publications Board and select the senior editors and associate editors of MPMI, again subject to approval by the APS Publications Board. According to ISI, MPMI has an impact factor of 4.431 and is ranked 16th of 190 plant science journals, establishing it as the highest-ranked journal specialized in molecular plant-microbe interactions (2012 data, most recent available at press time). Papers published in MPMI are indexed by PubMed and other major publications databases, become “Open Access” 12 months after publication, and are published online in the “First Look” section immediately after final acceptance, provided that the corresponding author agrees.

Recently, we distributed a survey to members of APS and IS-MPMI, as well as MPMI authors, to receive feedback from the community on the performance of MPMI. In response to 14,225 invitations, 1,875 surveys were completed, a rate of 14%. IS-MPMI members had a higher response rate, with 149 responses from 632 invitations (24%). These rates are fairly typical for surveys of this type. Eighty-one percent of respondents have published a paper in MPMI, so the survey data are coming largely from scientists who are using MPMI. Fifty-one percent of respondents rated MPMI “High” and a further 37% rated it “Above average” among journals publishing papers in plant pathology. This is consistent with the impact factor data from ISI. When asked about the review process, 30% were “Very satisfied” and 52% were “Satisfied.” This suggests that reviewing is going rather well, since reviewing involves criticism, which authors generally are not very happy to receive. When asked about technical and copy editing, 37% were “Very satisfied” and 51% were “Satisfied.” MPMI continues to devote considerable resources to technical and copy editing, in contrast to the trend among online journals of dropping these services and publishing manuscripts exactly as they are received. We see professional technical and copy editing as a service that is valuable to our authors, many of whom are using English as a second language.

Most survey respondents are reading MPMI in electronic form. Seventy percent read “First Look” articles, suggesting that posting articles to “First Look” prior to editing is highly effective in rapidly drawing attention to them. Fifty-five percent of respondents are reading articles in electronic form, with a further 37% reading both print and electronic articles. However, some respondents said that if MPMI were entirely electronic, they definitely (5%) or probably

(11%) would not read it. Modern publishing technology allows MPMI to produce the present fairly small print run of 425 copies per issue at reasonable cost, so for now we will continue to accommodate readers who prefer to read the printed version. Many respondents share articles electronically by e-mail (66%), Google+ (41%), Facebook (40%), or other social networking sites. There is considerable interest in measures of impact other than citations. When asked which measures of impact they would like to see associated with their papers, 86% said “downloads,” 45% said “page views,” and 33% said “unique visitors.” We are working to make these measures available.

When asked what they would like to pay for publication of a manuscript, the most common answer was “\$500–\$1,000” (35%), followed by “less than \$500” (25%) and “\$1,000–\$1,500” (22%). MPMI uses a formula to compute publication charges. For a typical paper consisting of 11 pages, 6 black-and-white figures, 1 color figure, and 4 supplementary figures, the charge is \$1,600. The formula for computing the publication charges has remained unchanged for more than a decade, although the cost per article has risen as the average length of papers has increased. Authors can reduce charges by having color figures, which cost \$500 each in print, printed in black and white and shown in color online. Asking respondents which journals they consider important resulted in a list of journals considered important by at least 30% of respondents. Very few of these top journals publish a typical MPMI paper at a cost substantially lower than MPMI, as shown in the table below. While it would be nice to be able to operate MPMI at a lower cost to authors, this is not presently feasible.

Publication Cost by Journal*

<i>Molecular Plant-Microbe Interactions</i>	\$1,600
<i>Proceedings of the National Academy of Sciences</i>	\$1,800
<i>Plant Cell</i>	\$2,300
<i>PLoS Pathogens</i>	\$2,250
<i>Plant Journal</i>	\$250
<i>PLoS ONE</i>	\$1,350
<i>New Phytologist</i>	Free (online only)
<i>Plant Physiology</i>	\$1,900
<i>Molecular Plant Pathology</i>	Free (+ \$415 color charge)
<i>Phytopathology</i>	\$2,130

*Based on a typical printed paper consisting of 11 pages, 6 black-and-white figures, 1 color figure, and 4 supplementary figures at the nonmember rates.

Based on the survey results, we conclude that MPMI is important to the scientific community and continues to deliver value to authors and readers by publishing top-quality, peer-reviewed, and professionally edited papers in both electronic and print formats. We thank the survey respondents and assure you that we will continue to work hard to maintain and improve the quality of the journal. ■

People

Awards



Uwe Conrath

Uwe Conrath, RWTH Aachen University, was recently presented with the 2014 Science Award from the German Phytomedicine Society. The award is given to individuals with groundbreaking and significant contributions to phytomedicine. Conrath received the award for his work on plant defense priming and its potential for applied plant protection in the field.

Students

In 2013, nineteen students associated with the Netherlands Graduate School Experimental Plant Sciences (EPS), and participating in research on interactions between plants and biotic agents, defended their Ph.D. theses. The EPS Graduate School is a collaborative research and teaching institution of Wageningen University (WU), Radboud University in Nijmegen (RU), Free University in Amsterdam (VU), Leiden University (LU), University of Amsterdam (UvA), University of Groningen (RUG), and Utrecht University (UU).

T. Yang, Biosynthesis of monoterpene alcohols, derivatives, and conjugates in plants—Roles in resistance to western flower thrips
M. Dicke, H. J. Bouwmeester (promoters); M.A. Jongsma (copromotor); WU, Wageningen, 3 May 2013

A. M. Ramirez, Pyrethrum secondary metabolism: Biosynthesis, localization, and ecology of defence compounds
H. J. Bouwmeester, M. Dicke (promoters); M. A. Jongsma (copromotor); WU, Wageningen, 3 May 2013

M. F. Seidl, Exploring evolution and biology of oomycetes: Integrative and comparative genomics
P. Hogeweg, F. Govers (promoters); B. Snel (copromotor); UU, Utrecht, 6 May 2013

L. Zhang, Pectin degradation by *Botrytis cinerea*: Recognition of endopolygalacturonases by an *Arabidopsis* receptor and utilization of D-galacturonic acid
P. J. G. M. de Wit (promotor); J. A. L. van Kan (copromotor); WU, Wageningen, 5 June 2013

Z. Zhang, Functional analysis of tomato immune receptor Ve1 and recognition of *Verticillium* effector Ave1
P. J. G. M. de Wit (promotor); B. P. H. J. Thomma (copromotor); WU, Wageningen, 5 June 2013

W. J. Postma, On the modulation of innate immunity by plant-parasitic cyst nematodes
J. Bakker (promotor); G. Smant (copromotor); WU, Wageningen, 13 June 2013

M. J. C. Pel, Evasion and suppression of plant immunity
C. M. J. Pieterse (promotor); UU, Utrecht, 19 June 2013

M. G. Verlaan, Characterization of major resistance gene to *Tomato yellow leaf curl virus*
R. G. F. Visser (promotor); Y. Bai (copromotor); WU, Wageningen, 19 June 2013

S. C. Mithoe, Modulation of MAPK signaling in plant immunity and development
C. M. J. Pieterse (promotor); UU, Utrecht, 8 July 2013

C. J. M. ten Broeke, Unraveling the resistance mechanism of lettuce against *Nasonovia ribisnigri*
M. Dicke, J. J. A. van Loon (promoters); WU, Wageningen, 5 September 2013

B. Ökmen, Identification and characterization of novel effectors of *Cladosporium fulvum*
P. J. G. M. de Wit (promotor); J. Collemare (copromotor); WU, Wageningen, 9 September 2013

K. R. Jo, Unveiling and deploying durability of late blight resistance in potato: From natural stacking to cisgenic stacking
E. Jacobsen, R. G. F. Visser (promoters); J. H. Vossen (copromotor); WU, Wageningen, 17 September 2013

M. Verbeek, Characterization and epidemiology of members of the genus *Tornadovirus*
J. M. Vlak (promotor); R. A. A. van der Vlugt (copromotor); WU, Wageningen, 19 September 2013

F. H. W. van den Elsen, Resistance mechanisms against *Bemisia tabaci* in wild relatives of tomato
M. Dicke (promotor); A. W. van Heusden (copromotor); WU, Wageningen, 22 October 2013

D. De Ronde, Analysis of *Tomato spotted wilt virus* effector-triggered immunity
J. M. Vlak (promotor); R. J. M. Kormelink (copromotor); WU, Wageningen, 8 November 2013

A. Maharijaya, Resistance to thrips in pepper
R. G. F. Visser (promotor); R. E. Voorrips (copromotor); WU, Wageningen, 18 November 2013

X. Chen, Identification of *Arabidopsis thaliana* genes that can increase resistance towards phloem feeding insects
R. G. F. Visser (promotor); B. J. Vosman (copromotor); WU, Wageningen, 20 November 2013

D. Lapin, Molecular aspects of plant disease susceptibility: *Arabidopsis* genes affecting downy mildew infection
C. M. J. Pieterse (promotor); G. van den Ackerveken (copromotor); UU, Utrecht, 2 December 2013

S. Oome, Comparative and functional analysis of secreted proteins of the oomycete *Hyaloperonospora arabidopsis*
C. M. J. Pieterse (promotor); G. van den Ackerveken (copromotor); UU, Utrecht, 2 December 2013

Recently published research in *Molecular Plant-Microbe Interactions*

Find complete abstracts online with links to full-text articles at <http://apsjournals.apsnet.org/loi/mpmi>.

March 2014, Volume 27, Number 3

FOCUS ON TRANSLATIONAL RESEARCH

CURRENT REVIEW—Effectors as Tools in Disease Resistance Breeding Against Biotrophic, Hemibiotrophic, and Necrotrophic Plant Pathogens.

CURRENT REVIEW—A Time for More Booms and Fewer Busts? Unraveling Cereal–Rust Interactions.

CURRENT REVIEW—The *Potyviridae* Cylindrical Inclusion Helicase: A Key Multipartner and Multifunctional Protein.

Characterization of a Tryptophan 2-Monooxygenase Gene from *Puccinia graminis* f. sp. *tritici* Involved in Auxin Biosynthesis and Rust Pathogenicity.

Mycosphaerella graminicola LysM Effector-Mediated Stealth Pathogenesis Subverts Recognition Through Both CERK1 and CEBiP Homologues in Wheat.

Production of *Xylella fastidiosa* Diffusible Signal Factor in Transgenic Grape Causes Pathogen Confusion and Reduction in Severity of Pierce's Disease.

A Bacterial Type III Secretion Assay for Delivery of Fungal Effector Proteins into Wheat.

Substitutions of Two Amino Acids in the Nucleotide-Binding Site Domain of a Resistance Protein Enhance the Hypersensitive Response and Enlarge the PM3F Resistance Spectrum in Wheat.

A Novel, Sensitive Method to Evaluate Potato Germplasm for Bacterial Wilt Resistance Using a Luminescent *Ralstonia solanacearum* Reporter Strain.

Methods to Study PAMP-Triggered Immunity in *Brassica* Species.

Disruption of Vector Transmission by a Plant-Expressed Viral Glycoprotein.

April 2014, Volume 27, Number 4

Trichoderma asperelloides Suppresses Nitric Oxide Generation Elicited by *Fusarium oxysporum* in *Arabidopsis* Roots.

Melanin Is Not Required for Turgor Generation but Enhances Cell-Wall Rigidity in Appressoria of the Corn Pathogen *Colletotrichum graminicola*.

Enhanced Nodulation and Nodule Development by *nolR* Mutants of *Sinorhizobium medicae* on Specific *Medicago* Host Genotypes.

The *Fusarium oxysporum* Effector Six6 Contributes to Virulence and Suppresses I-2-Mediated Cell Death.

New Insights into the Regulation of Aquaporins by the Arbuscular Mycorrhizal Symbiosis in Maize Plants Under Drought Stress and Possible Implications for Plant Performance.

Pyocyanin, a Virulence Factor Produced by *Pseudomonas aeruginosa*, Alters Root Development Through Reactive Oxygen Species and Ethylene Signaling in *Arabidopsis*.

The *Sinorhizobium meliloti* EmrAB Efflux System Is Regulated by Flavonoids Through a TetR-Like Regulator (EmrR).

The *Sinorhizobium meliloti* EmrR Regulator Is Required for Efficient Colonization of *Medicago sativa* Root Nodules.

May 2014, Volume 27, Number 5

Alternative Cell Death Mechanisms Determine Epidermal Resistance in Incompatible Barley-*Ustilago* Interactions.

A Soybean Acyl Carrier Protein, GmACP, Is Important for Root Nodule Symbiosis.

Translocation and Functional Analysis of *Pseudomonas savastanoi* pv. *savastanoi* NCPPB 3335 Type III Secretion System Effectors Reveals Two Novel Effector Families of the *Pseudomonas syringae* Complex.

Sinorhizobium meliloti Flavin Secretion and Bacteria-Host Interaction: Role of the Bifunctional RibBA Protein.

Pleiotropic Function of the Putative Zinc-Finger Protein MoMsn2 in *Magnaporthe oryzae*.

Herbivore Cues from the Fall Armyworm (*Spodoptera frugiperda*) Larvae Trigger Direct Defenses in Maize.

Roles of Different Forms of Lipopolysaccharides in *Ralstonia solanacearum* Pathogenesis.

OxyR and SoxR Modulate the Inducible Oxidative Stress Response and Are Implicated During Different Stages of Infection for the Bacterial Phytopathogen *Pantoea stewartii* subsp. *stewartii*.

Adaptation of *Lettuce mosaic virus* to *Catharanthus roseus* Involves Mutations in the Central Domain of the VPg.

June 2014, Volume 27, Number 6

Trichoderma spp. Improve Growth of *Arabidopsis* Seedlings Under Salt Stress Through Enhanced Root Development, Osmolite Production, and Na⁺ Elimination Through Root Exudates.

Amino Acid Sequence Motifs Essential for P0-Mediated Suppression of RNA Silencing in an Isolate of *Potato leafroll virus* from Inner Mongolia.

Recently Published Research continued on page 10

Identification and Characterization of Suppressor Mutants of *spl11*-Mediated Cell Death in Rice.

StoS, a Hybrid Histidine Kinase Sensor of *Xanthomonas oryzae* pv. *oryzae*, Is Activated by Sensing Low O₂ Concentration and Is Involved in Stress Tolerance and Virulence.

Populus trichocarpa and *Populus deltoides* Exhibit Different Metabolomic Responses to Colonization by the Symbiotic Fungus *Laccaria bicolor*.

The cAMP-PKA Pathway Regulates Growth, Sexual and Asexual Differentiation, and Pathogenesis in *Fusarium graminearum*.

Salicylic Acid and Jasmonic Acid Are Essential for Systemic Resistance Against Tobacco mosaic virus in *Nicotiana benthamiana*.

The Degenerate EAL-GGDEF Domain Protein Filp Functions as a Cyclic di-GMP Receptor and Specifically Interacts with the PilZ-Domain Protein PXO_02715 to Regulate Virulence in *Xanthomonas oryzae* pv. *oryzae*.

Knocking Out *Bcsas1* in *Botrytis cinerea* Impacts Growth, Development, and Secretion of Extracellular Proteins, Which Decreases Virulence. ■

Welcome New Members

We have had more than 150 people join IS-MPMI between February 1 and April 30, 2014.

Please join us in welcoming them to the society!

Veenu Aishwarya
Tiago M. Amaro
Hatthaya Arunothayanan
Ivan Baccelli
Olga Badalyan
Yacine Y. Badis
Ofir Bahar
Yang Bai
Fabien Baldacci-Cresp
Patricia Baldrich
Paula Batista-Santos
Stephani Baum
Sarosh Bejai
Adriana J. Bernal
Friederike Bernsdorff
Wanda A. Biala
Louise Birse
Vasileios Bitas
Janis E. Bravo
Raquel Caserta
Vittoria Catara
Nicolas M. Cecchini
Teresa Ceserani
Cheng Chang
Spyridoula N. Charova
Carina Collins
Elena Colombi
Stephane Compant
Mery Dafny Yelin
Beth L. Dalsing
Amina Daminova
Gordana M. Danilovic
Andrew Marc Dawson
Alice Delga
Nicolas Denance
Magali Dequivre
Xiaotang Di
Luis Diaz Martinez

Paula A. Diaz Tatis
Tinatin Doolotkeldieva
Noam Eckshtain-levi
Farid El Kasmi
Mohamed H. El-Shetehy
Gabriella Endre
Meghan E. Feltcher
Raquel Figueiredo
Osvaldo Filipe
Robert F. Fisher
Max Fishman
Christos Fotiadis
Christopher Milton Franco
Giulia Furlan
Nora Gigli Bisceglia
Upinder S. Gill
Ana Giner Rubio
Giovanna Gramegna
Matteo Gravino
Cheng Gu
Lokanadha Rao Rao Gunupuru
Miekie P. Haasbroek
Morgan Halane
Sarah Harvey
Samira Hassan
William Heard
Sarah R. Hind
Alejandra I. Huerta
Bethany Huot
Michail Iakovidis
Juliane K. Ishida
Christophe Jacquet
Amit K. Jaiswal
Jianguang Jia
Pragya Kant
Kostas N. Karademiris
Graeme James Kettles
Sajjad Khani

Min Gab Kim
Panya Kim
Hyeran Kim
Roberto Kron Morelli
Aundy Kumar
Andras Kunstler
Julien Lang
Ruth Le Fevre
Sarah Lebeis
Thomas Ledger
Meirav Leibman-Markus
Jer-Sheng Lin
Vincenzo Lionetti
Justine Lipuma
Jie Liu
Nadia Lombardi
Joyce E. Loper
Diego Lopez Marquez
Mauricio J. Lozano
Yen-Ting Lu
Yi-Ju Lu
Daniel MacLean
Frederikke Malinovsky
Patricia M. Manosalva
Robert Marschall
Emmanouil V. Mastorakis
Rebecca L. McDougal
Cesar Augusto Medina Culma
Maria Fernanda Mideros
Jimi Miller
Marta Modzelan
Graham B. Motion
J. Musembi Mutuku
Yevgeny Nikolaichik
Gabriela Karina Orquera
Chiara Paparella
Matias Pasquali
Tobias Pees

Isabel Perez Martinez
Alvaro L. Perez Quintero
Benjamin Petre
Jasmine Pham
Christophe Pineau
Sophie J. M. Piquerez
Raúl Alberto Platero
Daniela Pontiggia
Jelle L. Postma
María Josefina Poupin Swinburn
Savithri Purayannur
Jeyaraman Rajaraman
Aln Rao
Lynne Reuber
Philippe E. Rolshausen
Caroline Roper
Simon B. Saucet
Kinga Anna Sedzielewska
María Eugenia Segretin
Dilip Shah
Raheleh Sheibani Tezerji
Catherine Sorven
Thomas Spallek
Girish Srinivas
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Chika Tateda
Dilek Tekdal
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Fan Yang
Heng Yin
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New *Phytopathology* Focus Issue to Cover Emerging and Re-Emerging Plant Diseases

Author submissions due December 1, 2014

Plant diseases have affected humans and our quality of life in many ways. They have triggered starvation, mass migrations, and the prices we pay for our food.

While pesticides, breeding for host resistance, and other technologies lessen the effects of plant diseases, increased global trade and human migration have made it easier than ever for pathogens to spread into new environments. It is in this new and challenging period of human history that *Phytopathology*’s editors announce a call for papers to be published in the journal’s latest focus issue, entitled Emerging and Re-Emerging Plant Diseases.

Focus issue editors **George Sundin**, **Krishna Subbarao**, and **Steve Klosterman** encourage authors to submit research and perspective articles that add fundamental new knowledge to our understanding of emerging and re-emerging plant pathogens, including—but not restricted to—the following.

- *Phytophthora ramorum* (sudden oak death)
- *Hemileia vastatrix* (coffee rust)
- *Phytophthora infestans* (late blight)
- *Phakopsora pachyrhizi* (soybean rust)
- ‘*Candidatus Liberibacter* spp.’ (huanglongbing)
- *Xylella fastidiosa* (Pierce’s disease)
- *Puccinia graminis* f. sp. *tritici* (stem rust strain UG99)

All papers must present new biological knowledge; papers that are purely descriptive literature reviews will not be considered. All manuscripts will be peer reviewed as regular *Phytopathology* manuscripts.

This single-topic focus issue allows scientists a chance to highlight progress and show the impact of their work in a special way. It will be indexed by ISI Web of Science, PubMed, Scopus, and other important access portals. It will also be submitted to CrossRef, allowing citation tracking and greater connectivity in the “works cited” sections of other articles. This focus issue will be widely promoted through these and other outlets. And as a result, it is expected to be highly cited, giving authors maximum exposure.

The submission deadline for this timely and relevant focus issue is December 1, 2014. Publication is anticipated in May 2015.

For more information, submission directions, and editor contact information, visit http://apsjournals.apsnet.org/page/PHYTOFocus_EmergingDiseases. ■

COMING EVENTS

June 8–13, 2014

**The 13th International Conference
on Plant Pathogenic Bacteria**

Shanghai, China • www.icppb2014.org

June 22–25, 2014

Hemipteran-Plant Interactions Symposium

Riverside, California, U.S.A. • hpis2014.ucr.edu/

July 6–10, 2014

XVI International Congress on MPMI

Rhodes, Greece • www.mpmi2014rhodes-hellas.gr

July 12–16, 2014

Plant Biology 2014

Portland, Oregon, U.S.A. • my.aspb.org/page/Oregon2014

July 20–25, 2014

**Decision-Making Pathways, Networks,
and Models in Plant Biology**

Holderness, New Hampshire, U.S.A.
www.grc.org/programs.aspx?year=2014&program=plantmolec

July 28–August 1, 2014

**25th International Conference
on Arabidopsis Research (ICAR)**

Vancouver, British Columbia, Canada
arabidopsisconference2014.org

August 9–13, 2014

APS–CPS Joint Meeting

Minneapolis, Minnesota, U.S.A. • www.apsnet.org/meet/

Include your meeting in IS-MPMI's printed and online event calendar. Submit online
at www.ismpmi.org/meetings/calsubmit.asp.