

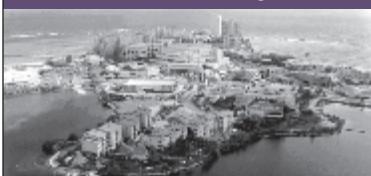
# IS-MPMI Reporter

International Society for  
Molecular Plant-Microbe Interactions

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### Last Chance to Register for the XII International Congress



**REGISTER TODAY**  
for the  
**XII International Congress**  
**on Molecular Plant-Microbe**  
**Interactions,**  
July 17-22, 2005, Cancun, Mexico.

For more information and to register, go to [www.ibt.unam.mx/cancun2005/](http://www.ibt.unam.mx/cancun2005/)

### IS-MPMI REPORTER DEADLINE

#### Deadline for submitting items for the next issue is July 25, 2005.

Submission of materials as electronic files, either on disk or as e-mail attachments, will speed processing. For information on submitting electronic images contact Joel Berg at [jberg@scisoc.org](mailto:jberg@scisoc.org).

#### Send items to:

Editor-in-Chief: Thomas Baum  
Department of Plant Pathology  
351 Bessey Hall  
Iowa State University  
Ames, IA 50011  
Phone: 515.294.2398  
Fax: 515.294.9420  
E-mail: [tbaum@iastate.edu](mailto:tbaum@iastate.edu)

## APS Council Makes Online Journal Research Available for Free after 24 Months

Research published in *Molecular Plant-Microbe Interactions* (MPMI), *Phytopathology*, and *Plant Disease* is now accessible for free after 24 months of subscriber-only access. This change results in immediate, free access to APS journal content published between 1997 and April 2003. For each journal, a two-year-old issue will gain free-access status when the current month's issue is published on the web. IS-MPMI is affiliated with APS, and MPMI is an APS publication.

"The implementation of this policy reflects the commitment of APS

and IS-MPMI to making the contents of its journals accessible to scientists throughout the world," said IS-MPMI President Jonathan Walton. "This will promote free and open exchange of information, even in countries and institutions where access to the print versions is limited," Walton continued.

"Open access of MPMI will increase the availability of our research publications to the widest possible readership, which may increase the impact of the research," said Jan Leach. "For some academic scholars, it will help relieve decades-long erosion of library access to journals. I hope that, in the near future, MPMI articles will open access earlier than the current 24 months," Leach said.

The APS Council voted on this partial open-access model based on the findings of an ad hoc journal committee led by John Andrews. "Allowing free access two years after publication will open a lot of useful research to many who may not have had access to our online journals before," said Andrews.

All IS-MPMI members are encouraged to ask their librarians to make sure these online journals are in their library's electronic catalogs with live links to our journal home pages. If your institution's library doesn't have access to MPMI's paid content, ask your librarian to subscribe by visiting: [www.ismpminet.org/mpmi/subscribe.asp](http://www.ismpminet.org/mpmi/subscribe.asp).

Another improvement, the digitization of all APS journal research published prior to 1997, is planned for the APS online journals. Currently, only issues from 1997 to the present are available online. The initiative to publish the APS journal research archive going back to the very first volumes is possible through a partnership with the University of Wisconsin Library. The first of this archival research will be posted in early 2006 and will be available free.

In allowing free access to some of the published APS journal content, APS is not relinquishing copyright. The Society will retain copyright, ensuring that the research remains protected from misuse.



## Meet IS-MPMI Members

IS-MPMI's diverse membership spans the globe and includes professionals who have been in their field for decades as well as those who are just starting out. To help members learn more about their colleagues, the *IS-MPMI Reporter* includes profiles of members at different career stages and chosen randomly.

### Postdoctoral/Early Career



**Dimitrios I. Tsitsigiannis**

The Sainsbury Laboratory  
John Innes Centre  
Norwich, United Kingdom

My interest in plant pathology and in plant-microbe interactions arose at Agricultural University of Athens, Greece, where I received my undergraduate degree in agricultural biotechnology. My bachelor's thesis under the supervision of

Prof. Eris Tjamos (Department of Phytopathology, Faculty of Crop Science) involved the study of screening of endorhizosphere bacteria as biocontrol agents against *Verticillium dahliae* of potatoes and eggplants. This work led to the identification of two bacterial isolates, *Paenibacillus alvei* and *Bacillus amiloliquefaciens*, with a strong and broad antagonistic activity against *Verticillium dahliae* and several other soilborne bacterial and plant pathogens (Eur. J. Plant Pathology 110:35-44). Both antagonists reduced *Verticillium* wilt disease incidence by over 50 percent and increased yield by 25 percent in greenhouse and field experiments. Further molecular studies demonstrated that these antagonists are plant-growth-promoting bacteria with an induced resistance activity.

My undergraduate advisors, Professors Eris Tjamos and Nondas Paplomatas (Agricultural University of Athens, Greece) were very supportive of my desire to go on to graduate school and significantly influenced my decision to pursue a graduate career in plant pathology. I started at Texas A&M University (1999), where I joined Dr. Nancy Keller's lab. Dr. Keller is a research leader in the study of molecular genetic processes controlling mycotoxin biosynthesis and sporulation development as well as host metabolites that affect fungal growth and mycotoxin biosynthesis in filamentous fungi *Aspergillus* spp. In 2001, Dr. Keller's lab moved to the Department of Plant Pathology, University of Wisconsin-Madison, and I also transferred my Ph.D. studies to that university. The focus of my Ph.D. project was to identify *Aspergillus* and seed molecules important in the *Aspergillus*-seed interaction that can lead to rational approaches in designing control strategies that can ultimately reduce or eliminate aflatoxin contamination. Seed lipoxygenase-derived products (oxylipins) induce sporulation and affect mycotoxin production in a positive or negative manner, depending on the oxylipin. Our hypothesis was that seed oxylipins have structural and functional similarities to endogenous *Aspergillus* sporogenic oxylipins and thus direct developmental processes in the fungus. I cloned, disrupted,

and characterized at genetic level the first fungal oxylipin biosynthetic genes (*ppoA*, *ppoB* and *ppoC*) in *A. nidulans* (Tsitsigiannis et al. 2004: J. Biol. Chem. 279:11344-53; Eukaryotic Cell 3:1398-1411; and Microbiology, in press). My studies demonstrated that fungal oxylipins act as regulatory signals and have a profound effect on fungal morphological (e.g., meiotic/mitotic spore balance) and chemical (e.g., mycotoxin, antibiotics) development. PpoC was also the first identified enzyme involved in the production of fungal prostaglandins, compounds that play inflammation roles in mammals (Tsitsigiannis et al., submitted to *Infection & Immunity*). Considering the similarity, and in some cases identity of psi factor to plant and human oxylipins, we hypothesized that these molecules participate in a "cross-talk" communication between pathogen and host cells contributing to disease development. This work was supported by a Novartis (Syngenta) Crop Protection Graduate Fellowship. A second part of my Ph.D. was to clone and characterize two novel peanut lipoxygenases highly expressed in mature seed that are repressed up to 250-fold over the course of *Aspergillus* infection. These studies further support previous studies in the Keller lab showing that the seed lipoxygenase-derived oxylipins 9S-HPODE and 13S-HPODE act as susceptibility and/or resistance factors in *Aspergillus*-seed-aflatoxin interactions. This work will be submitted soon to *MPMI*. These studies led to the Dr. George Washington Carver Award by the USA National Peanut Board for excellence in peanut research and service to the community.

After finishing my Ph.D. studies, my desire was to continue the study of plant-pathogen interactions and expand my knowledge with the use of new technologies in bioinformatics, biochemistry, and proteomics that are applied in this field. I joined the Professor Jonathan Jones lab at the Sainsbury Laboratory, John Innes Centre in England as a postdoctoral research associate. Professor Jones, a fellow of the Royal Society, is one the pioneers in the discovery and study of plant disease resistance genes and plant molecular genetics. His group is internationally recognized for current research on the understanding of the biological mechanisms that underpin the ability of resistance genes to confer recognition of plant pathogens and initiation of defense mechanisms using tomato, tobacco, and *Arabidopsis* plants. My project is to identify novel programmed cell death (PCD) regulators in *Arabidopsis thaliana* by comparative research genome analysis of PCD genes on diverse eukaryotic organisms that ultimately can lead to genetic and functional models of "transdeath" evolution in the eukaryotic kingdom. A second part of my project is to identify the targets of three E3 ligases (F box and 2 U-box proteins) induced after the hypersensitive response (a well characterized PCD pathway in plants). A combination of proteomics and genetic approaches using epitope tagging, coimmuno-

precipitation, transgenic plant technologies, and disease infection studies is utilized for these studies. I am delighted that I will present my first research data in the Jones lab at the 12th International Congress on Molecular Plant Microbe Interactions, in Cancun, Mexico this year.

My future professional career goal is to work in academia as a researcher and teacher, studying mechanisms of plant-pathogen interactions. My goal is the development of a research program that integrates a variety of microbial and plant genetics and genomics approaches in order to investigate the molecular mechanisms underlying pathogen virulence strategies and disease resistance. I would like to function as a team member in collaborative research projects that require a multidisciplinary approach leading to precise manipulation and deployment of resistance genes and, ultimately, the development of agricultural crops with durable resistance.

I joined IS-MPMI in November 1999, when I started my career as a Ph.D. student. I was a volunteer in the organization of the 10th International Congress on Molecular Plant-Microbe Interactions in Madison, Wisconsin, where I presented my results and received very useful feedback from other colleagues. I believe that the IS-MPMI Congress is an excellent opportunity to meet and discuss with other research fellows of the international plant-microbe interactions community. The *IS-MPMI Reporter* and the *MPMI* journal serve as a communication mechanism to easily keep up-to-date with the exciting research opportunities in our field and to show the progress in this area and to novel subjects of study and an extraordinary level of technological innovation and sophistication. I strongly encourage new graduate students, postdoctoral, and other research scientists who are not members to join IS-MPMI and take advantage of a very energetic group of people!

## Student



### Darby G. Brown

Department of Biology/Dangl Lab  
University of North Carolina  
Chapel Hill, NC U.S.A.

I received my B.S. in biology with minors in chemistry and fine art from Metropolitan State College of Denver. After graduation, I worked as a technician in an immunology lab at the University of Colorado Health Sciences Center, where I studied lymphocyte responses

to herpes viruses from HIV-infected patients. I recently received my Ph.D. in microbiology from University of Wisconsin-Madison, where I developed an *in vivo* expression technology (IVET) screen to study the virulence of *Ralstonia solanacearum*.

I am currently an National Institute of Health postdoctoral fellow in the lab of Dr. Jeff Dangl at the University of North

Carolina-Chapel Hill, where I am working on elucidating the mechanism of plant (*Arabidopsis thaliana*) resistance, using microarrays.

I knew that I wanted to study plant-microbe interactions while I was an undergraduate. When I first learned that a bacterium (*Agrobacterium tumefaciens*) could insert DNA into the plant genome, I was completely amazed. In graduate school, when I learned that there was an entire organization of people who were interested in the processes behind plant-microbe interactions, I was beside myself with joy. So obviously, I joined IS-MPMI because it is a great organization of people who are interested in the basic biology of plant-microbe interactions. There are many ways to collaborate and interact with members in the society and the biannual meetings are the most rewarding and productive scientific meetings I've ever attended.

## Distinguished member

### Gene Nester

Microbiology Department  
University of Washington  
Seattle, WA U.S.A.

After reading *Arrowsmith* and *Microbe Hunters* in high school, I knew that I wanted to be a microbiologist, and my professional life has been focused on this area of science since that time. I graduated from Cornell University, majoring in Bacteriology, a department in the College of Agriculture, and received my Ph.D. in microbiology from Case-Western Reserve University, a part of the School of Medicine. Continuing to move west, I studied with Joshua Lederberg as a postdoctoral trainee in the newly formed Department of Genetics at Stanford University.

My first and only academic position has been in the Department of Microbiology at the University of Washington in Seattle, where I came as an instructor in 1962. From 1981 to 1998, I was chairman of the department.

My studies as a postdoctoral trainee focused on DNA-mediated transformation of *Bacillus subtilis* and the synthesis of aromatic amino acids in this organism. I continued these studies at the University of Washington for the next eight years, until I became aware of the intriguing history of the interaction of the common plant pathogen *Agrobacterium tumefaciens* with its host plants. This interaction results in the formation of crown gall tumors, a particularly devastating disease of stone fruits, nursery ornamentals, and grape vines. A most intriguing aspect of the disease is that the inciting bacteria can be killed and the tumor continues to develop. A number of lines of evidence in several laboratories suggested that nucleic acid was being transferred from *Agrobacterium tumefaciens* to plants, thereby stably transforming them. Accordingly, it was not a big stretch to transfer my interests from the

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#### **Meet IS-MPMI Members** continued from page 3

transformation of bacteria to the transformation of higher plants by bacteria. Fortunately, I was able to convince a colleague in biochemistry, Milt Gordon, who is very knowledgeable about plants and nucleic acids, that this interaction of microbes and plants would be fun to explore. Neither of us has regretted our decision, and we have continued to explore this system for the last 30 years.

I have been a member of IS-MPMI for as long as the organization has existed and probably can claim to be a founding member. As I recall, the impetus for having an official society for people interested in the molecular genetics of plant-microbe interactions was Desh Pal Verma, who was then at McGill University in Montreal, Canada. Desh Pal was interested in identifying and characterizing the plant genes that were important in the process of nodulation by *Rhizobium* spp. In the early 1980s, plant pathology was largely a descriptive science, and people studying plant pathogens, who were trained in genetics, biochemistry, and molecular biology, but not necessarily plant pathology, were not terribly interested in attending the annual meetings of plant pathologists. Further, no appropriate journal existed for publishing papers dealing with the molecular aspects of plant-microbe interactions. Desh Pal hosted the Third International Symposium on the Molecular Genetics of Plant-Microbe Interactions in Montreal in 1986. Discussions with a number of individuals, such as Luis Sequeira, led to the formation of IS-MPMI with its own set of bylaws. I served first as treasurer (1990-92) and then as president (1992-1994).

It has been gratifying to see how IS-MPMI has developed from an informal gathering of scientists interested in a common subject to the vibrant organization it is today, with its own highly regarded and successful official monthly publication. In large part, the resounding success of this organization reflects the phenomenal growth of the field of molecular plant-microbe interactions. The first several bi-annual meetings on this subject, the first held in the early 1980s, were dominated by investigators studying *Rhizobium* and *Agrobacterium*. These systems were the two major experimental systems that were approached initially with the tools and techniques of

molecular genetics. In short order however, the power of the experimental approaches and techniques employed in studying these systems became appreciated. Soon, these same techniques were being used to investigate other plant diseases, more complex systems such as disease resistance to a variety of plant pathogens, both prokaryotic and eukaryotic, as well as the detailed mechanisms of microbial virulence. Interestingly, these studies on plant-microbe interactions have gone far beyond plant science and have now drawn the attention of the entire scientific community because of the commonality in the basic mechanisms of interaction of animal and plant pathogens with their hosts. It is becoming increasingly clear that the interactions of plant pathogens with plants share a surprising number of common features with the interactions of animal pathogens with animals. These include virulence factors and innate resistance.

The study of *Agrobacterium* and its interaction with plants has been gratifying to me personally for many reasons. First, our studies, aimed at understanding how a bacterium caused a crown gall tumor, resulted in demonstrating the extreme case of horizontal gene transfer—the transfer of DNA from a prokaryote to a eukaryote. Second, understanding the molecular basis of crown gall disease led to the development of an entire industry in plant biotechnology and made possible the remarkably rapid development of plant molecular genetics. Third, the excitement of studying this new phenomenon of gene transfer from bacteria to plants, where every observation was novel, brought a host of outstanding graduate students and postdoctoral trainees to the laboratory. The atmosphere in the lab was electrifying with surprising findings being made almost on a daily basis. It is most gratifying, but not surprising to me, that most all of these people have gone on to highly successful careers in science.

It was certainly not possible to envision 30 years ago how the study of *Agrobacterium* and crown gall tumors would impact, either directly or indirectly, the lives of so many people and influence the development of whole new areas of plant science. I feel fortunate to have had the opportunity to play a small role in these studies.

Thanks To You,  
IS-MPMI Is  
Growing!

You are the single most important  
source of new member referrals.  
Keep the momentum going.  
Tell a colleague about membership  
in IS-MPMI.

Information is available online at  
[www.ismpminet.org](http://www.ismpminet.org)



International Society for Molecular  
Plant-Microbe Interactions

## Welcome New Members

The following members joined IS-MPMI between December 1, 2004 and March 31, 2005.  
Please join us in welcoming them to the Society!

<b>Jules Ade</b> Indiana University Bloomington, IN U.S.A.	<b>Sumita Chaudhuri</b> BASF Plant Science LLC Research Triangle Park, NC U.S.A.	<b>Thomas A. Eulgem</b> University of California Riverside, CA U.S.A.	<b>Laura C. Hudson</b> North Carolina State University Raleigh, NC U.S.A.
<b>Tika Adhikari</b> North Dakota State University Fargo, ND U.S.A.	<b>Stephen T. Chisholm</b> University of California Berkeley, CA U.S.A.	<b>John P. Fellers</b> Kansas State University Manhattan, KS U.S.A.	<b>Duk-Ju Hwang</b> Natl Inst of Agricultural Biotechnology Suwon, Kyungia, Korea
<b>Ricelle Agbayani</b> Hawaii Agric Research Center Aiea, HI U.S.A.	<b>Virginia Chow</b> University of Florida Gainesville, FL U.S.A.	<b>Jesus Aparecido Ferro</b> Alellyx Applied Genomics Campinas, SP, Brazil	<b>Koh Iba</b> Kyushu University Fukuoka, Japan
<b>Ton Allersma</b> De Ruiter Zonen Seeds Bergschenhoek, The Netherlands	<b>Steven J. Clough</b> University of Illinois Urbana, IL U.S.A.	<b>Judith Fliegmann</b> Ludwig Martimillians University Muenchen, Germany	<b>Noriko Inada</b> El Cerrito, CA U.S.A.
<b>Ajith Anand</b> Samuel Roberts Noble Foundation Ardmore, OK U.S.A.	<b>Gitta L. Coaker</b> University of California Berkeley, CA U.S.A.	<b>Zomary Flores</b> Madison, WI U.S.A.	<b>Joanna Jelenska</b> University of Chicago Chicago, IL U.S.A.
<b>Jean-Michel M. Ane</b> University of Wisconsin Madison, WI U.S.A.	<b>Wei Cui</b> Hort & Food Res Inst NZ Ltd Auckland, New Zealand	<b>Julio Cesar Franco De Oliveira</b> State University of Sao Paulo Jaboticabal, SP, Brazil	<b>Hailing Jin</b> University of California Riverside, CA U.S.A.
<b>Cristiana M.G.T. Argueso</b> University of North Carolina Chapel Hill, NC U.S.A.	<b>Eric L. Davis</b> North Carolina State University Raleigh, NC U.S.A.	<b>Christopher T. Gee</b> Cornell University Geneva, NY U.S.A.	<b>Evan G. Johnson</b> Cornell University Ithaca, NY U.S.A.
<b>Federico Battistoni</b> University of Bremen Bremen, Germany	<b>Brad Day</b> University of California Berkeley, CA U.S.A.	<b>Nicole L. Giudice</b> Cornell University Geneva, NY U.S.A.	<b>Madhumita V. Joshi</b> Cornell University Ithaca, NY U.S.A.
<b>Flavio A. Blanco</b> University of California Riverside, CA U.S.A.	<b>Aline Maria De Silva</b> University Sao Paulo ESALQ Butantan, Sao Paulo, Brazil	<b>Cynthia A. Gleason</b> John Innes Centre Norwich, United Kingdom	<b>Ho Won Jung</b> University of Chicago Chicago, IL U.S.A.
<b>Ewa E. Bovejsza-Wysocka</b> Cornell University Geneva, NY U.S.A.	<b>Sonia Zingaretti Di Mauro</b> State University of Sao Paulo Jaboticabal, SP, Brazil	<b>Stephanie L. Hebert</b> University of Arkansas Fayetteville, AR U.S.A.	<b>Johan A. Kers</b> Cornell University Ithaca, NY U.S.A.
<b>Delphine Capela</b> CNRS INRA Castanet Tolosan, France	<b>Max Dow</b> National University of Ireland Cork, Ireland	<b>Jackie Rodger Heilbronn</b> Scottish Crop Research Inst Dundee, United Kingdom	<b>Jung-Gun Kim</b> Stanford University Stanford, CA U.S.A.
<b>Maryke Carstens</b> University of Cape Town Capetown, Republic of South Africa	<b>Mondher El Jaziri</b> University Libre De Bruxelles Brussels, Belgium	<b>Nikos Hontzeas</b> Purdue University West Lafayette, IN U.S.A.	<b>Sonja Anne Kosuta</b> John Innes Centre Norwich, United Kingdom
<b>Jose A. Castillo</b> University of Chicago Chicago, IL U.S.A.	<b>Bernard L. Epel</b> Tel Aviv University Tel Aviv, Israel	<b>Jian Hua</b> Cornell University Ithaca, NY U.S.A.	<b>Anders Kvarnheden</b> Swedish University of Agric Sciences Uppsala, Sweden
<b>Karen S. Century</b> Mendel Biotechnology Hayward, CA U.S.A.	<b>Carolina Escobar</b> University De Castilla La Mancha Toledo, Spain	<b>Lin Chia Hua</b> Taipei City, Taiwan Republic of China	<b>Min Woo Lee</b> University of Chicago Chicago, IL U.S.A.

Welcome New Members continued on page 6

Welcome New Members *continued from page 5*

**Xiang-Qian Li**  
University of California at  
San Diego  
La Jolla, CA U.S.A.

**Donghui Li**  
University of California  
Berkeley, CA U.S.A.

**Nai-Chun Lin**  
Boyce Thompson Inst  
Ithaca, NY U.S.A.

**Magdalen Lindberg**  
Cornell University  
Ithaca, NY U.S.A.

**Hui Liu**  
Scottish Crop Research Inst  
Dundee, United Kingdom

**Edmundo Lozoya-Gloria**  
CINVESTAV-IPN  
Irapuato, GTO, Mexico

**Wenbo Ma**  
University of Toronto  
Toronto, ON, Canada

**Luis D. Maldonado-Bonilla**  
CINVESTAV – IPN  
Irapuato, Gto, Mexico

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Geneva, NY U.S.A.

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Hawaii Agric Research Center  
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University of Toronto  
Toronto, ON, Canada

**Peter Moffett**  
Boyce Thompson Inst  
Ithaca, NY U.S.A.

**Toni J. Mohr**  
Virginia Tech  
Blacksburg, VA U.S.A.

**Simon M. Moll**  
Cornell University  
Ithaca, NY U.S.A.

**Mary Beth Mudgett**  
Stanford University  
Stanford, CA U.S.A.

**Pedro Luiz Nurnberg**  
Inst of Molecular Plant Science  
Edinburgh, United Kingdom

**Elizabeth Ortiz-Vazquez**  
Inst Technologica De Merida  
Merida, Yucatan, Mexico

**Thomas Ott**  
Max Planck Inst of Plant  
Molecular Biology  
Potsdam, Germany

**Meenu S. Padmanabhan**  
University of Maryland  
College Park, MD U.S.A.

**Uta Paszkowski**  
University of Geneva  
Geneve 4, Switzerland

**Nrupali Patel**  
North Carolina State University  
Raleigh, NC U.S.A.

**Kerry F. Pedley**  
Boyce Thompson Inst for Plant  
Research  
Ithaca, NY U.S.A.

**Lindsay N. Petersen**  
University of Cape Town  
Cape Town, Republic of South  
Africa

**Annalisa Polverari**  
University Degli Studi Di Verona  
Verona, Italy

**Martha L. Posada-Buitrago**  
Joint Genome Inst  
Walnut Creek, CA U.S.A.

**Dinah S. Qutob**  
Agriculture and Agri Food Canada  
London, ON, Canada

**Katrina M. Ramonell**  
University of Alabama  
Tuscaloosa, AL U.S.A.

**Didier Reinhardt**  
University of Fribourg  
Fribourg, Switzerland

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Stanford University  
Stanford, CA U.S.A.

**Monica Rosenblueth**  
University Nacional Autonoma  
De Mexico  
Cuernavaca, Morelos, Mexico

**Garry M. Rosewarne**  
CIMMYT  
Houston, TX U.S.A.

**Sara F. Sarkar**  
University of Toronto  
Toronto, ON, Canada

**Abhijit Sarkar**  
University of Bremen  
Bremen, Germany

**Lisa M. Schechter**  
Cornell University  
Ithaca, NY U.S.A.

**Ryan F. Seipke**  
Cornell University  
Ithaca, NY U.S.A.

**Elena Sergeeva**  
Okanagan University College  
Kelowna, BC, Canada

**Rena Shimizu**  
Cornell University  
Ithaca, NY U.S.A.

**Michal Shores**  
Weizmann Inst of Science  
Rehovot, Israel

**Stacey A. Simon**  
VPI & State University  
Blacksburg, VA U.S.A.

**Davide Spadaro**  
University of Turin  
Grugliasco TO, Italy

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University of Toronto  
Toronto, ON, Canada

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CEIB-UAEM  
Cuernavaca, Mor, Mexico

**Jongho Sun**  
John Innes Centre  
Norwich, United Kingdom

**Maria Ines Tiraboschi Ferro**  
State University of Sao Paulo  
Jaboticabal, Brazil

**Zarir E. Vaghchhipawala**  
Samuel Roberts Noble Foundation  
Ardmore, OK U.S.A.

**Keri Wang**  
Samuel Roberts Noble Foundation  
Ardmore, OK U.S.A.

**Yongsheng Wang**  
University of Florida  
Gainesville, FL U.S.A.

**Xiaohong Wang**  
Cornell University  
Ithaca, NY U.S.A.

**Tamding Wangdi**  
Oklahoma State University  
Stillwater, OK U.S.A.

**Kristi Y. Woods**  
Novozymes Biologicals  
Salem, VA U.S.A.

**Brande Brule Wulff**  
Univ Politecico De Valencia  
Valencia, Spain

**Svetlana N. Yurgel**  
Washington State University  
Pullman, WA U.S.A.

**Susanne Zehner**  
T U Dresden  
Dresden, Germany

**Youfu Zhao**  
Michigan State University  
East Lansing, MI U.S.A.

**Julie L. Zwiesler-Vollick**  
John Innes Centre  
Norwich, United Kingdom

## EMPLOYMENT

### **Postdoctoral Position—Molecular Plant-Nematode Interaction Research at Iowa State University**

A postdoctoral position is available immediately to conduct molecular biology and protein biochemistry research to functionally characterize cyst nematode parasitism proteins. This project will involve expression of nematode parasitism genes in plants, silencing of nematode genes through RNAi, and identifying plant proteins interacting with nematode parasitism proteins, among other approaches. Please send a cover letter describing your interest and expertise, a CV, and contact information for at least three reference persons to Dr. Thomas Baum ([tbaum@iastate.edu](mailto:tbaum@iastate.edu)). General laboratory information is available at [www.baumlab.org](http://www.baumlab.org).

### **Postdoctoral Molecular Plant Pathologist—USDA-ARS Dale Bumpers National Rice Research Center**

A postdoctoral molecular plant pathologist position (Job Number: Y05057-A), located at the DB NRRC ([www.dbnrrc.ars.usda.gov/](http://www.dbnrrc.ars.usda.gov/)) in Stuttgart, AR, is available in cooperation with the University of Arkansas Rice Research and Extension Center. Tasks include planning, conducting, and publishing basic and applied research as part of a national coordinated agricultural project (RICECAP, [www.uark.edu/ua/ricecap/](http://www.uark.edu/ua/ricecap/)). The selected candidate is expected to use modern molecular genetics and plant pathology techniques to identify and characterize novel resistance genes to sheath blight for rice improvement in a coordinated national project. Interested applicants should send their resume, official college transcript, and three letters of recommendation from knowledgeable associates to: Dr. Yulin Jia; c/o Dee Henderson; USDA-ARS DB NRRC; 2890 Hwy 130 E, P.O. Box 1090; Stuttgart, AR 72160; Telephone: +1.870.672.9300.

### **Assistant Scientist I**

The Department of Plant Pathology, Iowa State University, invites applicants for a position to study the interaction of *Soybean mosaic virus* with soybean resistance genes. The incumbent will be part of a cooperative investigation involving the laboratories of Drs. John Hill and Steve Whitham. Knowledge of plant molecular biology, biochemistry, microbiology, plant pathology, or a related field is required. Candidates with experience working in the area of plant virology and/or plant defense to pathogens are preferred. Knowledge of recombinant DNA techniques, use of expression vectors, microarray analysis to identify changes in gene expression as a response to virus infection, and sensitive nucleic-acid based and immunological virus detection techniques is an advantage. The successful candidate must be able to design and conduct independent experiments and to work successfully as part of a team. Minimum requirements for the position include a B.A. or B.S. plus experience, which may be assessed as equivalent to an M.S., candidates having a recent Ph.D. will be given serious consideration. The position is available immediately for one year with the second year continuation depending on performance. Salary is commensurate with background and experience. Instructions for sending job materials:

Applicants should apply online at [www.iastatejobs.com](http://www.iastatejobs.com) (job number: 043903) and submit a CV, cover letter, a one-page statement of purpose, and names and addresses of three references. Pay scale: Minimum \$31,302; commensurate with background and qualifications. This posting is open until the position is filled. Questions regarding this position can be directed to: Dr. John Hill, Iowa State University, Department of Plant Pathology, Ames, IA 50011, [johnhill@iastate.edu](mailto:johnhill@iastate.edu), +1.515.294.3561; or Dr. Steve Whitham, Iowa State University, Department of Plant Pathology, Ames, IA 50011, [swhitham@iastate.edu](mailto:swhitham@iastate.edu), +1.515.294.4952.

### **Senior Associate Scientist, Nematology—Research Triangle Park, NC**

BASF - The Chemical Company is a Fortune 100 chemical company dedicated to making products that make our customers' products better. Throughout the 20th century, BASF has played a leading role in agriculture and nutrition. BASF Plant Science (BPS) was founded in 1998 and is represented at seven sites in four countries. With this international network of expertise, BPS is especially well equipped to be a leader in plant biotechnology, creating and commercializing innovative products to help keep the world's growing population well fed in the 21st century. At BASF, we make careers better, too. Position summary: The incumbent will be part of a team of scientists engaged in nematode bioassay to develop soybean cyst nematode resistance. Responsibilities: 1) Maintain various nematode cultures in the greenhouse and supply them to the group for assay purposes; 2) Screen plants in greenhouse/growth chamber for nematode resistance; 3) record and deliver results in Microsoft Office tools. Requirements: Ph.D. in nematology, or M.S. in plant pathology/nematology with four years of experience in plant-nematode interactions research, or B.S. in plant pathology with 7 years of experience in plant-nematode interactions research. Prefer experience in in-vitro tissue culture and nematode assay, and experience in plant histology. To apply: Please note that we accept online applications only, through our website at [www.bASF.com/careers](http://www.bASF.com/careers). Please click on "Open Positions" then "Search Openings" and enter 1553BR into the keyword search box. We offer compensation and benefits that reflect our leadership position. For more information about careers at BASF - The Chemical Company, or to view all of our current openings, visit our website at [www.bASF.com/careers](http://www.bASF.com/careers).

### **Faculty Position in Phytopathology—The Hebrew University of Jerusalem**

The Department of Plant Pathology and Microbiology invites applications for a full-time tenure-track position in phytopathology. Starting date is October 1, 2005. Applicants should have a Ph.D. in a relevant discipline and have postdoctoral research experience in topics related to phytopathology. Starting rank will be commensurate with qualifications. Candidates are expected to conduct original and independent research on basic and applied aspects of phytopathology,

*Employment continued on page 8*

specializing in phytopathogenic fungi. Responsibilities will include teaching (in Hebrew) of undergraduate and graduate courses in phytopathology and related topics and supervising graduate students. Candidates will be expected to attract external competitive funding. Strong leadership and communication capabilities are required and collaborative research with other researchers will be encouraged. Please send a cover letter stating research and teaching interests, detailed resume, list of publications, and the names of three people from academic institutions who

are willing to write letters of recommendation (including complete address, telephone and fax numbers, and E-mail address) to the below address. Applications will be reviewed promptly and are invited until the position is filled. Contact: Prof. Yaacov Okon, Head, Department of Plant Pathology and Microbiology, Faculty of Agricultural, Food and Environmental Quality Sciences, The Hebrew University of Jerusalem, P.O. Box 12, Rehovot 76100, Israel, Department Secretary Rina Byer, Fax: +972 8 9466794; E-mail: byerrina@agri.huji.ac.il.

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IS-MPMI members receive a discount on their Congress registration. Nonmembers who join IS-MPMI prior to registering will also receive a discount. IS-MPMI membership applications are available online at [www.ismpminet.org/members/pdf/ismpmimemberapp.pdf](http://www.ismpminet.org/members/pdf/ismpmimemberapp.pdf), or by contacting IS-MPMI at: phone: +1.651.454.7250, fax: +1.651.454.0766, e-mail: [ismpmi@scisoc.org](mailto:ismpmi@scisoc.org).

For more information on the Congress go to: **[www.ibt.unam.mx/cancun2005/](http://www.ibt.unam.mx/cancun2005/)**

**May 2005, Vol. 18, Issue 5**

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Microarray Analysis of the Gene Expression Profile Induced by the Endophytic Plant Growth-Promoting Rhizobacteria, *Pseudomonas fluorescens* FPT9601-T5 in *Arabidopsis*. Y. Wang, Y. Ohara, H. Nakayashiki, Y. Tosa, and S. Mayama.

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Aldehyde Oxidase (AO) in the Root Nodules of *Lupinus albus* and *Medicago truncatula*: Identification of AO in Meristematic and Infection Zones. E. Fedorova, F. J. Redondo, T. Koshiba, J. J. Pueyo, M. Rosario de Felipe, and M. M. Lucas.

Analysis of Promoter Activity of the Early Nodulin *Enod40* in *Lotus japonicus*. M. Grønlund, A. Roussis, E. Flemetakis, N. E. M. Quaedvlieg, H. R. M. Schlaman, Y. Umehara, P. Katinakis, J. Stougaard, and H. P. Spaink.

Salicylic Acid-Induced Resistance to *Cucumber mosaic virus* in Squash and *Arabidopsis thaliana*: Contrasting Mechanisms of Induction and Antiviral Action. C. N. Mayers, K.-C. Lee, C. A. Moore, S.-M. Wong, and J. P. Carr.

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Proteomic Analysis of Soybean Root Hairs After Infection by *Bradyrhizobium japonicum*. J. Wan, M. Torres, A. Ganapathy, J. Thelen, B. B. DaGue, B. Mooney, D. Xu, and G. Stacey.

The *CTB1* Gene Encoding a Fungal Polyketide Synthase Is Required for Cercosporin Biosynthesis and Fungal Virulence of *Cercospora nicotianae*. M. Choquer, K. L. Dekkers, H.-Q. Chen, L. Cao, P. P. Ueng, M. E. Daub, and K.-R. Chung.

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Comparison of the Transcript Profiles from the Root and the Nodulating Root of the Model Legume *Lotus japonicus* by Serial Analysis of Gene Expression. E. Asamizu, Y. Nakamura, S. Sato, and S. Tabata.

NopA Is Associated with Cell Surface Appendages Produced by the Type III Secretion System of *Rhizobium* sp. Strain NGR234. W. J. Deakin, C. Marie, M. M. Saad, H. B. Krishnan, and W. J. Broughton.

**April 2005, Vol. 18, Issue 4**

Proposed Guidelines for a Unified Nomenclature and Phylogenetic Analysis of Type III Hop Effector Proteins in the Plant Pathogen *Pseudomonas syringae*. M. Lindeberg, J. Stavrinides, J. H. Chang, J. R. Alfano, A. Collmer, J. L. Dangl, J. T. Greenberg, J. W. Mansfield, and D. S. Guttman.

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Molecular Properties of the *Xanthomonas AvrRxv* Effector and Global Transcriptional Changes Determined by Its Expression in Resistant Tomato Plants. A. Bonshtien, A. Lev, A. Gibly, P. Debbie, A. Avni, and G. Sessa.

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*Arabidopsis ssi2*-Conferred Susceptibility to *Botrytis cinerea* Is Dependent on *EDS5* and *PAD4*. A. Nandi, W. Moeder, P. Kachroo, D. F. Klessig, and J. Shah.

### March 2005, Vol. 18, Issue 3

Differences in Intensity and Specificity of Hypersensitive Response Induction in *Nicotiana* spp. by INF1, INF2A, and INF2B of *Phytophthora infestans*. E. Huitema, V. G. A. A. Vleeshouwers, C. Cakir, S. Kamoun, and F. Govers.

Evidence That RNA Silencing-Mediated Resistance to *Beet necrotic yellow vein virus* Is Less Effective in Roots Than in Leaves. I. B. Andika, H. Kondo, and T. Tamada.

The T-DNA Oncogene A4-*orf8* from *Agrobacterium rhizogenes* A4 Induces Abnormal Growth in Tobacco. M. Umber, B. Clément, and L. Otten.

The Plant Gene *CCD1* Selectively Blocks Cell Death During the Hypersensitive Response to Cauliflower Mosaic Virus Infection. J. Cawly, A. B. Cole, L. Király, W. Qiu, and J. E. Schoelz.

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Biophoton Imaging: A Nondestructive Method for Assaying *R* Gene Responses. M. Bennett, M. Mehta, and M. Grant.

Diversification of Non-TIR Class NB-LRR Genes in Relation to Whole-Genome Duplication Events in *Arabidopsis*. K. Nobuta, T. Ashfield, S. Kim, and R. W. Innes.

Mannitol 1-Phosphate Metabolism Is Required for Sporulation in Planta of the Wheat Pathogen *Stagonospora nodorum*. P. S. Solomon, K.-C. Tan, and R. P. Oliver.

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Transcript Profiles of *Blumeria graminis* Development During Infection Reveal a Cluster of Genes That Are Potential Virulence Determinants. M. Both, S. E. Eckert, M. Csukai, E. Müller, G. Dimopoulos, and P. D. Spanu.

Probing the *Sinorhizobium meliloti*-Alfalfa Symbiosis Using Temperature-Sensitive and Impaired-Function Citrate Synthase Mutants. W. Grzemski, J. P. Akowski, and M. L. Kahn.

Avoidance of Host Recognition by Alterations in the Repetitive and C-Terminal Regions of AvrXa7, a Type III Effector of *Xanthomonas oryzae* pv. *Oryzae*. B. Yang, A. Sugio, and F. F. White.

Mutations of *ousA* Alter the Virulence of *Erwinia chrysanthemi*. K. Gloux, T. Touze, Y. Pagot, B. Jouan, and C. Blanco.

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Regulation of Enteric Endophytic Bacterial Colonization by Plant Defenses. A. L. Iniguez, Y. Dong, H. D. Carter, B. M. M. Ahmer, J. M. Stone, and E. W. Triplett.

# Members of the International Society for Molecular Plant-Microbe Interactions

As of April 1, 2005

## A

**Achar, Premila N.**

Kennesaw State Univ  
Biological and Physical Sciences Dept  
1000 Chastain Road, #1202  
Kennesaw, GA 30144  
Tel: (770) 499-3524  
Fax: (770) 423-6625  
pachar@kennesaw.edu

**Adam, Gerhard**

Univ of Nat Res & Applied Life Sciences  
Inst of Applied Genetics, Cell Biology  
Muthgasse 18/05/66  
Vienna, 1190  
AUSTRIA  
Tel: 43 1 3600 66380  
Fax: 43 1 3600 66392  
gerhard.adam@boku.ac.at

**Ade, Jules**

Indiana Univ  
Biology Dept  
915 E 3rd Street - 150 Myers Hall  
Bloomington, IN 47405  
Tel: (812) 855-2852  
Fax: (812) 855-6082  
jade@bio.indiana.edu

**Adhikari, Tika**

North Dakota State Univ  
Plant Pathology Dept  
306 Walster Hall  
Fargo, ND 58105  
Tel: (701) 231-7079  
Fax: (701) 231-7851  
tika.adhikari@ndsu.edu

**Agbayani, Ricelle**

Hawaii Agric Research Center  
99-193 Aiea Heights Dr  
Aiea, HI 96701  
Tel: (808) 487-5561  
Fax: (808) 486-5020  
ricelle@hawaii.edu

**Aguilar, Mario O.**

Univ Nacl de La Plata  
Quimica Biologica  
Fac Cien Ex  
La Plata BA, 1900  
ARGENTINA  
Tel: 54 221 425 0497  
Fax: 54 221 422 6947  
aguilar@biol.unlp.edu.ar

**Akimitsu, Kazuya**

Kagawa Univ  
Fac of Agric - Life Sciences Dept  
Miki-cho  
Kagawa-ken, 761-0795  
JAPAN  
Tel: 81 87 891 3131  
Fax: 81 87 891 3021  
kazuya@ag.kagawa-u.ac.jp

**Albersheim, Peter**

Univ of Georgia  
315 Riverbend Road  
Complex Carbohydrate Res Ctr  
Athens, GA 30602-4712  
Tel: (706) 542-4404  
Fax: (706) 542-4412  
palbersh@ccrc.uga.edu

**Aldwinckle, Herb S.**

Cornell Univ  
Plant Pathology Dept  
630 North Street  
Geneva, NY 14456  
Tel: (315) 787-2369  
Fax: (315) 787-2389  
hsa1@cornell.edu

**Allen, Caitlyn**

Univ of Wisconsin  
Russell Labs 885 - Plant Path Dept  
1630 Linden Dr  
Madison, WI 53706-1520  
Tel: (608) 262-9578  
Fax: (608) 263-2626  
cza@plantpath.wisc.edu

**Allersma, Ton**

De Ruiter Zonen Seeds  
Research Dept  
Leeuwenhoekweg 52  
Bergschenhoek, 2661 CZ  
NETHERLANDS  
Tel: 31 10 529 2222  
Fax: 31 10 529 2410  
carla.schoonius@deruiterseeds.com

**Alvarez-Morales, Ariel**

Cinvestav-IPN  
Plant Genetic Eng - Apdo Postal 629  
Km 9.6 Lib. Norte Carret. Irapuato-Leon  
Irapuato GTO, 36500  
MEXICO  
Tel: 52 462 623 9600  
Fax: 52 462 624 5849  
aalvarez@ira.cinvestav.mx

**Anand, Ajith**

Samuel Roberts Noble Foundation  
Plant Biology Division  
2510 Sam Noble Pkwy  
Ardmore, OK 73401  
Tel: (580) 224-6600  
Fax: (580) 224-6692  
aanand@noble.org

**Ane, Jean-Michel M.**

Univ of Wisconsin  
Agronomy Dept - 219 Moore Hall  
1575 Linden Dr  
Madison, WI 53706  
Tel: (608) 890-0155  
Fax: (608) 262-5217  
jane@wisc.edu

**Antoun, Hani H.**

Univ Laval  
1255 RSVS  
Pavillon Charles-Eugene Marchand  
Quebec, QC G1K 7P4  
CANADA  
Tel: (418) 656-2131x3650  
Fax: (418) 656-7176  
antoun@rsvs.ulaval.ca

**Arce-Johnson, Patricio**

P. Univ Catolica De Chile  
Genetica Molecular Y Microbiologia Dept  
Alameda #340 - Lab De Bioquimica  
Santiago, 114-D  
CHILE  
Tel: 56 2 686 2897  
Fax: 56 2 222 5515  
parce@genes.bio.puc.cl

**Argueso, Cristiana M.G.T.**

Univ of North Carolina  
Biology Dept  
309 Coker Hall  
Chapel Hill, NC 27510  
Tel: (919) 962-2273  
Fax: (919) 962-1625  
ca@email.unc.edu

**Arima, Yasuhiro**

Tokyo Univ of Agric & Tech  
Faculty of Agriculture  
Fuchu, Tokyo, 183-8509  
JAPAN  
Tel: 81 42 367 5677  
Fax: 81 42 367 5677  
arima@cc.tuat.ac.jp

**Aufsatzz, Werner**

UZA-2; 2D-541 Althanstrabe 14  
Vienna, 1090  
AUSTRIA  
Tel: 43 1 4277 29742  
Fax: 43 1 4277 29749  
werner.aufsatzz@gmi.oewa.ac.at

**Avila-Adame, Cruz**

105 Cambridge Ave  
Saddle Brook, NJ 07663  
avilaadame@yahoo.com

## B

**Bai, Jianfa**

Kansas State Univ  
Plant Pathology Dept  
4024 Throckmorton Hall  
Manhattan, KS 66506  
Tel: (785) 532-1393  
Fax: (785) 532-5692  
jianfa@plantpath.lsu.edu

**Bailey, Ana M.**

Cinvestav-IPN  
Apdo Postal 629  
Irapuato Gto, 36500  
MEXICO  
Tel: 52 95 462 623 9600  
Fax: 52 95 462 624 5849  
abailey@ira.cinvestav.mx

**Bailey, Mark J.**

NERC  
Inst of Virology and Environ  
Microbiology - Mansfield Rd  
Oxford, OX1 3SR  
UNITED KINGDOM  
Tel: 44 186 528 1630  
Fax: 44 186 528 1696  
mbailey@ceh.ac.uk

**Baker, Barbara J.**

USDA PGEC  
800 Buchanan Street  
Albany, CA 94710-1105  
Tel: (510) 559-5912  
Fax: (510) 559-5929  
bbaker@socrates.berkeley.edu

**Baker, C. Jacyn**

USDA ARS  
Molecular Plant Pathology Lab  
Bldg 004 - Room 016  
Beltsville, MD 20705  
Tel: (301) 504-5617  
Fax: (301) 504-5449  
bakerc@ba.ars.usda.gov

**Baker, Christina M.**

Oklahoma State Univ  
Entomology and Plant Pathology Dept  
127 Noble Research Center  
Stillwater, OK 74078-0001  
Tel: (405) 744-8268  
chickadee41780@aol.com

**Bakkeren, Guus**

Agric & Agri-Food Canada  
Pacific Agri-Food Research Centre  
Hwy 97  
Summerland, BC V0H 1Z0  
CANADA  
Tel: (250) 494-6368  
Fax: (250) 494-0755  
bakkereng@agr.gc.ca

**Banta, Lois M.**

Williams College  
Biology Dept  
Williamstown, MA 01267  
Tel: (413) 597-4330  
Fax: (413) 597-3495  
lbanta@williams.edu

**Barash, Isaac**

Tel Aviv Univ  
Plant Sciences Dept  
Tel Aviv, 69978  
ISRAEL  
Tel: 972 3 640 6251  
Fax: 972 3 640 9380  
isaaci@post.tau.ac.il

**Battistoni, Federico**

Univ of Bremen  
General Microbiology  
Loebener Str Geb NW2, Raum A3200  
Bremen, 28359  
GERMANY  
Fax: 49 421 218 9058  
febatt@yahoo.com

**Bauer, Wolfgang D.**

Ohio State Univ  
Hort and Crop Science Dept  
2021 Coffey Road  
Columbus, OH 43210-1044  
Tel: (614) 292-9035  
Fax: (614) 292-7162  
bauer.7@osu.edu

**Baum, Thomas J.**

Iowa State Univ  
Plant Pathology Dept  
351 Bessey Hall  
Ames, IA 50011-1020  
Tel: (515) 294-2398  
Fax: (515) 294-9420  
tbaum@iastate.edu

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- Beachy, Roger N.**  
Donald Danforth Plant Science Ctr  
975 N Warson Road  
St Louis, MO 63132  
Tel: (314) 587-1201  
Fax: (314) 587-1964  
rnbeachy@danforthcenter.org
- Beattie, Gwyn A.**  
Iowa State Univ  
Microbiology Dept  
207 Science I  
Ames, IA 50011  
Tel: (515) 294-5571  
Fax: (515) 294-6019  
gbeattie@iastate.edu
- Becana, Manuel**  
CSIC  
Est Experimental De Aula Dei  
Apdo 202 - Avda Montanana 177  
Zaragoza, 50080  
SPAIN  
Tel: 34 976 716 055  
Fax: 34 976 716 145  
becana@eed.csic.es
- Beffa, Roland**  
Bayer CropScience  
14-20 Rue Pierre Baizet  
Lyon, 69009  
FRANCE  
Tel: 33 472 852 935  
Fax: 33 472 852 297  
roland.beffa@bayercropscience.com
- Bender, Carol L.**  
Oklahoma State Univ  
Entomology and Plant Pathology Dept  
127 Noble Research Center  
Stillwater, OK 74078-3033  
Tel: (405) 744-9945  
Fax: (405) 744-7373  
cbender@okstate.edu
- Bent, Andrew F.**  
Univ of Wisconsin  
Plant Pathology Dept  
1630 Linden Dr  
Madison, WI 53706-1598  
Tel: (608) 265-3034  
Fax: (608) 263-2626  
afb@plantpath.wisc.edu
- Berger, David K.**  
Univ of Pretoria  
Botany Dept  
Agric Science Bldg, Room 6-26  
Pretoria, 0002  
REP OF SOUTH AFRICA  
Tel: 27 12 420 4634  
Fax: 27 12 362 5327  
dberger@postino.up.ac.za
- Berman, Phyllis M.**  
Univ of Massachusetts  
Plant, Soil and Insect Sciences Dept  
209C Fernald Hall  
Amherst, MA 01003  
Tel: (413) 545-2364  
Fax: (413) 545-3075  
berman@psis.umass.edu
- Bertolet, Bonnie S.**  
San Francisco State Univ  
Biology Dept  
1600 Holloway Ave  
San Francisco, CA 94132  
Tel: (415) 338-7099  
bertolet@sfsu.edu
- Beynon, Jim L.**  
Warwick Univ  
Hort Research Intl  
Wellesbourne  
Warwick, CV35 9EF  
UNITED KINGDOM  
Tel: 44 2476 575 141  
Fax: 44 2476 574 500  
jim.beynon@warwick.ac.uk
- Bhattacharyya, Madan Kumar**  
Iowa State Univ  
Agronomy Dept  
G303 Agronomy Hall  
Ames, IA 50011-1010  
Tel: (515) 294-2505  
Fax: (515) 294-2299  
mbhattac@iastate.edu
- Birch, Paul R. J.**  
Scottish Crop Research Inst  
Plant-Pathogen Interaction Programme  
Invergowrie  
Dundee, DD3 0QN  
UNITED KINGDOM  
Tel: 44 1382 562 731  
Fax: 44 1382 568 678  
pbirch@scri.sari.ac.uk
- Bird, David M.**  
North Carolina State Univ  
Box 7616 - Plant Pathology Dept  
3415 Gardner Hall  
Raleigh, NC 27695-7616  
Tel: (919) 515-6813  
Fax: (919) 515-9500  
david\_bird@ncsu.edu
- Blanco, Flavio A.**  
Univ of California  
Plant Pathology Dept  
3219 Webber Hall  
Riverside, CA 92521-0001  
Tel: (951) 827-3932  
fablanco@ucr.edu
- Bloemberg, Guido V.**  
Leiden Univ  
Inst of Molecular Plant Sciences  
Clusius Lab - Wassenaarseweg 64  
Leiden, 2333 AL  
NETHERLANDS  
Tel: 31 71 527 5056  
Fax: 31 71 527 5088  
bloemberg@rulbim.leidenuniv.nl
- Blumer, Sara E.**  
Michigan State Univ  
Plant Pathology Dept  
103 CIPS  
East Lansing, MI 48824  
Tel: (517) 353-3272  
Fax: (517) 353-5578  
blumersa@msu.edu
- Boch, Jens**  
Martin Luther Univ  
Inst of Genetics  
Weinbergweg 10  
Halle (Saale), 06099  
GERMANY  
Tel: 49 345 552 6292  
Fax: 49 345 552 7151  
boch@genetik.uni-halle.de
- Bogdanove, Adam J.**  
Iowa State Univ  
Plant Pathology Dept  
351 Bessey Hall  
Ames, IA 50011-1020  
Tel: (515) 294-3421  
Fax: (515) 294-9420  
ajbog@iastate.edu
- Bohin, Jean-Pierre**  
UGSF UMR 8576 CNRS  
USTL Bat C9  
Villeneuve D'Ascq, 59655  
FRANCE  
Tel: 33 32 043 6592  
Fax: 33 32 043 6555  
jean-pierre.bohin@univ-lille1.fr
- Bonas, Ulla**  
Martin-Luther Univ  
Inst of Genetics  
Weinbergweg 10  
Halle Salle, 06120  
GERMANY  
Tel: 49 345 55 26290  
Fax: 49 345 55 27277  
bonas@genetik.uni-halle.de
- Bonnema, Augusta Benine**  
Wageningen Agricultural Univ  
Dept of Plant Breeding  
PO Box 386  
Wageningen, 6709 PD  
NETHERLANDS  
Tel: 31 317 484 028  
Fax: 31 317 118 3457  
gussje.bonnema@wur.nl
- Boonekamp, Piet M.**  
Plant Research International  
Biointeractions and Plant Health  
PO Box 16 - Droevedaalsesteeg  
Wageningen, 6700 AA  
NETHERLANDS  
Tel: 31 317 476 178  
Fax: 31 317 410 113  
p.m.boonekamp@plant.wag-ur.nl
- Bosco, Marco**  
Univ Di Bologna  
Dir Sci Tec Agroambientali  
Viale Fanin 42-44  
Bologna, 40127  
ITALY  
Tel: 39 51 209 6270  
Fax: 39 51 209 6274  
marco.bosco@unibo.it
- Botha-Oberholster, Anna-Maria**  
Univ of Pretoria  
Genetics and FABI Dept  
74 Hunan Road  
Pretoria, 0002  
REP OF SOUTH AFRICA  
Tel: 27 12 420 3945  
Fax: 27 12 420 3945  
ambothao@postino.up.ac.za
- Boucher, Christian A.**  
CNRS INRA  
BP 27 - Biology and Molecular  
Castanet Tolosan, 31326  
FRANCE  
Tel: 33 561 285 504  
Fax: 33 561 285 061  
boucher@toulouse.inra.fr
- Bouhouche, Naima**  
United Arab Emirates Univ  
Faculty of Science - Biology Dept  
Al-Jamia St - PO Box 17551  
Al-Ain,  
UAE  
Tel: 971 3 706 4433  
Fax: 971 3 767 1291  
nbouhouche02@yahoo.com
- Bovejsza-Wysocka, Ewa E.**  
Cornell Univ  
Plant Pathology Dept  
NYSAES - 630 North St  
Geneva, NY 14456  
Tel: (315) 787-2468  
Fax: (315) 787-2389  
eb31@cornell.edu
- Brown, Darby G.**  
Univ of North Carolina  
Biology Dept  
CB#3280 - Coker Hall  
Chapel Hill, NC 27599-3280  
Tel: (919) 962-4785  
Fax: (919) 962-1625  
darbanzo@yahoo.com
- Bruand, Claude**  
CNRS INRA  
Chemin De Borde-Rouge  
BP 52627  
Castanet Tolosan Cedex, 31326  
FRANCE  
Tel: 33 561 285 320  
Fax: 33 561 285 061  
cbruand@toulouse.inra.fr
- Burdman, Saul**  
Hebrew Univ of Jerusalem  
Plant Pathology and Microbiology Dept  
Food and Environmental Quality Sciences  
Rehovot, 76100  
ISRAEL  
Tel: 972 8 948 9369  
Fax: 972 8 946 6794  
saulb@agri.huji.ac.il
- Burketova, Lenka**  
Inst Experimental Botany CAS  
Na Karlovce 1a  
Prague, 16000  
CZECH REPUBLIC  
Tel: 420 2 2431 0108  
Fax: 420 2 2431 0113  
burketova@ueb.cas.cz
- Byun, Myung Ok**  
Natl Inst of Agricultural Biotechnology  
Molecular Physiology Dept  
Suwon, 441-707  
KOREA  
Tel: 82 31 299 1721  
Fax: 82 31 299 1712  
mobyun@rda.go.kr
- Caldo, Rico A.**  
Iowa State Univ  
Plant Pathology Dept  
405 Bessey Hall  
Ames, IA 50011-1020  
Tel: (515) 294-2893  
Fax: (515) 294-9420  
racaldo@iastate.edu
- Camara-Machado, Margit Laimer**  
Univ of Vienna  
Inst of Applied Microbiology  
Muthgasse 18  
Vienna, A-1190  
AUSTRIA  
Tel: 43 136 006 6560  
Fax: 43 136 97615  
m.laimer@iam.boku.ac.at

## C

- Capela, Delphine**  
CNRS INRA  
Chemin De Borde-Rouge  
BP 52627  
Castanet Tolosan, 31326  
FRANCE  
Tel: 33 561 285 054  
Fax: 33 561 285 061  
capela@toulouse.inra.fr
- Cardinale, Francesca C.**  
Univ of Torino  
Di Va P.R.A. - Plant Pathology Dept  
Via Leonardo Da Vinci, 44  
Grugliasco, TO, 10095  
ITALY  
Tel: 39 11 670 8875  
Fax: 39 11 670 8541  
francesca.cardinale@unito.it
- Carlson, Russell W.**  
Univ of Georgia  
Complex Carbohydrate Research Center  
220 Riverbend Road  
Athens, GA 30602  
Tel: (706) 542-4439  
Fax: (706) 542-4412  
rcarlson@ccrc.uga.edu
- Carstens, Maryke**  
Univ of Cape Town  
Molecular and Cell Biology Dept  
University Ave - Upper Campus  
Cape Town, 7701  
REP OF SOUTH AFRICA  
Tel: 27 21 650 4006  
Fax: 27 21 689 7673  
maryke@science.uct.ac.za
- Castillo, Jose A.**  
Univ of Chicago  
MGCB Dept - EBC 409  
1103 E 57th Street  
Chicago, IL 60637  
Tel: (773) 834-1906  
Fax: (773) 702-9270  
castillo@uchicago.edu
- Catalano, Christina M.**  
Univ of Delaware  
Plant and Soil Sciences Dept  
15 Innovation Way - Lab 149  
Newark, DE 19711  
Tel: (302) 831-3452  
Fax: (302) 831-3447  
07850@udel.edu
- Century, Karen S.**  
Mendel Biotechnology  
21375 Cabot Blvd  
Hayward, CA 94545  
Tel: (510) 259-6143  
Fax: (510) 264-0254  
kcentury@mendelbio.com
- Cervone, Felice**  
Univ La Sapienza  
Biology Vegetale Dept  
Piazzale Aldo Moro 5  
Rome, 00185  
ITALY  
Tel: 39 6 4991 2641  
Fax: 39 6 4991 2446  
felice.cervone@uniroma1.it
- Chakravarthy, Suma**  
Boyce Thompson Inst  
Plant Research  
Tower Road  
Ithaca, NY 14853  
Tel: (607) 254-1386  
Fax: (607) 255-6695  
sc289@cornell.edu
- Charkowski, Amy O.**  
Univ of Wisconsin  
Plant Pathology Dept  
1630 Linden Dr  
Madison, WI 53706-1598  
Tel: (608) 262-7911  
Fax: (608) 263-2626  
amyc@plantpath.wisc.edu
- Charles, Trevor C.**  
Univ of Waterloo  
Biology Dept  
200 University Ave West  
Waterloo, ON N2L 3G1  
CANADA  
Tel: (519) 888-4567x5606  
Fax: (519) 746-0614  
tcharles@uwaterloo.ca
- Chatterjee, Arun K.**  
Univ of Missouri  
Plant Pathology Dept  
108 Waters Hall  
Columbia, MO 65211-0001  
Tel: (573) 882-2940  
Fax: (573) 882-0588  
chatterjeea@missouri.edu
- Chatterjee, Asita**  
Univ of Missouri  
Plant Microbiology and Pathology Dept  
108 Waters Hall  
Columbia, MO 65211-6130  
Tel: (573) 882-1892  
Fax: (573) 882-0588  
chatterjeeas@missouri.edu
- Chaudhuri, Sumita**  
BASF Plant Science LLC  
26 Davis Dr  
Res Triangle Park, NC 27709  
Tel: (919) 547-2335  
Fax: (919) 547-2423  
chaudhs@bafsl.com
- Che, Fang-Sik**  
Nara Inst of Science & Technology  
Graduate School of Biological Sciences  
8916-5 Takayama Ikoma  
Nara, 630-0101  
JAPAN  
Tel: 81 74 372 5452  
Fax: 81 74 372 5459  
fsche@bs.aist-nara.ac.jp
- Chen, Chao-Ying**  
Natl Taiwan Univ  
Plant Pathology and Microbiology Dept  
Taipei,  
TAIWAN REP OF CHINA  
Tel: 886 2 3657735  
Fax: 886 2 3657735  
cychen@ccms.ntu.edu.tw
- Chen, Ruey-Shyang**  
Natl Chiayi Univ  
Grad Inst of Biotechnology  
300 University Road  
Chiayi, 600  
TAIWAN REP OF CHINA  
Tel: 886 5 271 7897  
Fax: 886 5 275 2391  
rschen@mail.ncyu.edu.tw
- Chen, Zhixiang**  
Purdue Univ  
Botany and Plant Pathology Dept  
915 W State Street  
West Lafayette, IN 47907  
Tel: (765) 494-4657  
Fax: (765) 494-5896  
zhixiang@purdue.edu
- Cheng, Min-Wen**  
Academia Sinica  
Institute of Botany  
128 Yamjiouyuan Rd, Soc 2, Nankang  
Taipei, 11529  
TAIWAN REP OF CHINA  
Tel: 886 2 2789 9590x212  
Fax: 886 2 2782 7954  
b87613005@atu.edu.tw
- Chet, Ilan**  
Hebrew Univ  
Faculty of Agric  
PO Box 12  
Rehovot, 76100  
ISRAEL  
Tel: 972 8 948 1236  
Fax: 972 8 946 8785  
chet@agri.huji.ac.il
- Chisholm, Stephen T.**  
Univ of California  
Plant and Microbial Biology Dept  
111 Koshland Hall  
Berkeley, CA 94720  
Tel: (510) 643-7230  
Fax: (510) 642-4995  
chisholm@nature.berkeley.edu
- Chow, Virginia**  
Univ of Florida  
Microbiology and Cell Science  
Bldg 981  
Gainesville, FL 32611-0700  
Tel: (352) 392-0236  
Fax: (352) 392-5922  
maysheung\_32607@yahoo.com
- Churchill, Alice C.**  
Boyce Thompson Inst  
Cornell Univ  
Tower Road  
Ithaca, NY 14853  
Tel: (607) 254-1355  
Fax: (607) 254-2958  
acc7@cornell.edu
- Cillo, Fabrizio**  
CNR - Ist Di Virologia Vegetale  
Protezione Piante E Microbiologia  
Applic  
Via G. Amendola 165/A  
Bari, 70126  
ITALY  
Tel: 39 80 544 3109  
Fax: 39 80 544 2911  
f.cillo@ba.ivv.cnr.it
- Clarke, Jihong Liu**  
Norwegian Crop Research Inst  
Plant Protection Centre  
Hogskoleveien 7  
Aas, N-1432  
NORWAY  
Tel: 47 64 949 310  
Fax: 47 64 949 226  
jihong.liu-clarke@planteforsk.no
- Clough, Steven J.**  
Univ of Illinois  
USDA ARS  
1101 W Peabody Dr  
Urbana, IL 61801  
Fax: (217) 265-6452  
sjclough@uiuc.edu
- Coaker, Gitta L.**  
Univ of California  
Plant and Microbial Biology Dept  
111 Hilgard Hall  
Berkeley, CA 94720  
Tel: (510) 643-7133  
gitta@nature.berkeley.edu
- Cocking, Edward C.**  
Univ of Nottingham  
Crop Nitrogen Fixation Centre  
Univ Park - Life Science Dept  
Nottingham, NG7 2RD  
UNITED KINGDOM  
Tel: 44 1159 513 056  
Fax: 44 1159 513 240
- Collinge, David B.**  
Royal Vet & Agric Univ  
Plant Biology Dept  
Thorvaldsensvej 40  
Frederiksberg, 1871  
DENMARK  
Tel: 45 35 283 356  
Fax: 45 35 283 310  
dbc@kvl.dk
- Collmer, Alan**  
Cornell Univ  
Plant Pathology Dept  
334 Plant Science Building  
Ithaca, NY 14853-4203  
Tel: (607) 255-7843  
Fax: (607) 255-4471  
arc2@cornell.edu
- Conejero, Tomas Vicente**  
Univ Politecnica De Valencia  
Inst De Biologia Mol Celular De Plantas  
Camino De Vera S/N  
Valencia, 46022  
SPAIN  
Tel: 34 6 387 7850  
Fax: 34 6 387 7859  
vcconejer@ibmcv.upv.es
- Covert, Sarah F.**  
Univ of Georgia  
Warnell School of Forest Resources  
Athens, GA 30602-2152  
Tel: (706) 542-1205  
Fax: (706) 542-8356  
covert@uga.edu
- Crane, Virginia C.**  
Pioneer Hi-Bred Intl  
PO Box 552  
7300 NW 62nd Street  
Johnston, IA 50131-0552  
Tel: (515) 334-4762  
Fax: (515) 334-4755  
virginia.crane@pioneer.com
- Cravador, Alfredo Morales**  
Univ De Algarve  
Fern Dept  
Campus De Cambelas  
Faro, Algarve, 8005-139  
PORTUGAL  
Tel: 351 289 800 935  
Fax: 351 289 814 419  
acravad@ualg.pt
- Crespi, Martin D.**  
CNRS  
Inst des Sciences Vegetales  
1 Ave de la Terrasse  
Gif Sur Yvette, 91198  
FRANCE  
Tel: 33 16 982 3703  
Fax: 33 16 982 3695  
crespi@isv.cnrs-gif.fr
- Cuero, Raul G.**  
Prairie View A&M Univ  
PO Box 685  
Prairie View, TX 77446-0685  
Tel: (409) 857-3012  
Fax: (409) 857-2325  
olimpa@aol.com

**Cui, Wei**  
Hort & Food Res Inst NZ Ltd  
Gene Technologies  
120 Mt Albert Road  
Auckland, 2003  
NEW ZEALAND  
Tel: 64 9 815 4200x7127  
Fax: 64 9 815 4201  
wcui@hortresearch.co.nz

**Culver, James N.**  
Univ of Maryland  
Ctr for Biosystems Research  
Biotechnology Inst  
College Park, MD 20742-4450  
Tel: (301) 405-2912  
Fax: (301) 314-9075  
jc21@umail.umd.edu

**Cuppels, Diane A.**  
Agric & Agri-Food Canada  
Southern Crop Prot and Food Res Ctr  
1391 Sandford St  
London, ON N5V 4T3  
CANADA  
Tel: (519) 457-1470x274  
Fax: (519) 457-3997  
cuppelsd@agr.gc.ca

## D

**D'Haeze, Wim**  
Scripps Research Inst  
Chemistry Dept - BCC265  
10550 N Torrey Pines Road  
La Jolla, CA 92037-1000  
Tel: (858) 784-9601  
Fax: (858) 784-9610  
wim@scripps.edu

**Damasceno, Cynthia M. B.**  
Cornell Univ  
Plant Pathology Dept  
228 Plant Science Building  
Ithaca, NY 14853  
Tel: (607) 255-7730  
Fax: (607) 255-5407  
cmd59@cornell.edu

**Dangl, Jeff L.**  
Univ of North Carolina  
Biology Dept  
Coker Hall 108 - CB 3280  
Chapel Hill, NC 27599-3280  
Tel: (919) 962-5624  
Fax: (919) 962-1625  
dangl@email.unc.edu

**Daub, Margaret E.**  
North Carolina State Univ  
Botany Dept  
2214 Gardner Hall - Box 7612  
Raleigh, NC 27695-7612  
Tel: (919) 513-3807  
Fax: (919) 515-3436  
margaret\_daub@ncsu.edu

**Davis, Eric L.**  
North Carolina State Univ  
Plant Pathology Dept  
840 Method Rd - Unit 4 Bldg -  
Box 7903  
Raleigh, NC 27607  
Tel: (919) 515-6692  
Fax: (919) 513-6692  
eric\_davis@ncsu.edu

**Day, Brad**  
Univ of California  
Plant and Microbial Biology Dept  
241 Koshland Hall  
Berkeley, CA 94720  
Tel: (510) 643-7133  
Fax: (510) 642-4995  
bday@nature.berkeley.edu

**Dazzo, Frank B.**  
Michigan State Univ  
Microbiology and Molecular Genetics  
East Lansing, MI 48824  
Tel: (517) 355-6463x1587  
Fax: (517) 355-8953

**De Mattos Cascardo, Julio Cesar**  
UESC/DCB  
Rodovia Ilheus-Itabuna, Km 16  
Salobrinho  
Ilheus, BA 45650-000  
BRAZIL  
Tel: 55 73 689 1082  
Fax: 55 73 680 5226  
cascardo@uesc.br

**De Silva, Aline Maria**  
Univ Sao Paulo ESALQ  
Bioquimica Dept - Inst De Quimica  
Av Prof Lineu Prestes 748  
Butantan, Sao Paulo, 05508-000  
BRAZIL  
Tel: 55 11 3091 2182  
Fax: 55 11 3091 2186  
almsilva@iq.usp.br

**De Vicente, Antonio**  
Univ of Malaga  
Faculty Ciencias Microbiology  
Campus Univ Teatinos  
Malaga, ES-29071  
SPAIN  
Tel: 34 952 131 892  
Fax: 34 952 132 000  
adevicente@uma.es

**De Waard, Maarten A.**  
Wageningen Univ  
Dept of Phytopathology  
PO Box 8025  
Wageningen, 6700 EE  
NETHERLANDS  
Tel: 31 31 748 3123  
Fax: 31 31 748 3412  
maarten.dewaard@wur.nl

**Denarie, Jean**  
CNRS INRA  
LIPM  
BP 27  
Castanet Tolosan, 31326  
FRANCE  
Tel: 33 56 128 5050  
Fax: 33 56 128 5061  
denarie@toulouse.inra.fr

**Deng, Wen-Ling**  
Natl Chung Hsing Univ  
Plant Pathology Dept  
250 Kuo Kuang Road  
Taichung, 402  
TAIWAN REP OF CHINA  
Tel: 886 4 2284 0780x375  
Fax: 886 4 2287 7585  
wenling15@hotmail.com

**Dessaux, Yves**  
CNRS, Inst des Sciences Vegetales  
Ave de la Terrasse  
Gif Sur Yvette, 91198  
FRANCE  
Tel: 33 1 6982 3690  
Fax: 33 1 6982 3695  
yves.dessaux@isv.cnrs-gif.fr

**deWit, Pierre J.**  
Wageningen Univ  
Binnenhaven 9  
PO Box 8025  
Wageningen, 6700 EE  
NETHERLANDS  
Tel: 31 31 748 3130  
Fax: 31 31 748 3412  
pierre.dewit@medew.fyto.wau.nl

**Di Mauro, Sonia Zingaretti**  
State Univ of Sao Paulo  
Technology Dept  
UNESP Campus  
Jaboticabal, SP 14870-000  
BRAZIL  
Tel: 55 16 3203 2372  
Fax: 55 16 3203 2373  
zingara@fcav.unesp.br

**Di Pietro, Antonio C.**  
Univ De Cordoba  
Genetica Dept  
Avenue de S Alberto Magno  
Cordoba, 14071  
SPAIN  
Tel: 34 9 5721 8601  
Fax: 34 9 5721 8606  
ge2dipia@uco.es

**Dickstein, Rebecca**  
Univ of North Texas  
Biological Sciences Dept  
PO Box 305220  
Denton, TX 76203-5220  
Tel: (940) 565-3359  
Fax: (940) 565-3821  
beccad@unt.edu

**Ding, Xinshun**  
Samuel Roberts Noble Foundation  
PO Box 2180 - Plant Biology Div  
2510 Sam Noble Pkwy  
Ardmore, OK 73402  
Tel: (580) 224-6600  
Fax: (580) 224-6692  
xsding@noble.org

**Ding, Biao**  
Ohio State Univ  
Plant Cellarlar and Molecular Biology  
207 Rightmire Hall - 1060 Carmack Rd  
Columbus, OH 43210  
Tel: (614) 247-6077  
Fax: (614) 292-5379  
ding.35@osu.edu

**Djordjevic, Michael A.**  
Australian Natl Univ  
Plant Microbe Interactions Group  
PO Box 475  
Canberra, ACT 2601  
AUSTRALIA  
Tel: 61 2 6249 3088  
Fax: 61 2 6249 0754  
michael@rsbs.anu.edu.au

**Dodds, Peter**  
CSIRO, Division of Plant Industry  
GPO Box 1600  
Canberra, ACT 2601  
AUSTRALIA  
Tel: 61 2 6246 5039  
Fax: 61 2 6246 5000  
peter.dodds@csiro.au

**Doty, Sharon L.**  
Univ of Washington  
College of Forest Resources  
Box 352100  
Seattle, WA 98195-2100  
Tel: (206) 616-6255  
Fax: (206) 543-3254  
sldoty@u.washington.edu

**Dow, Max**  
Nat'l Univ of Ireland  
Microbiology Dept  
College Road  
Cork,  
IRELAND  
Tel: 353 21 490 1316  
Fax: 353 21 427 5934  
m.dow@ucc.ie

**Downie, J. Allan**  
John Innes Centre  
Colney Lane  
Norwich, NR4 7UH  
UNITED KINGDOM  
Tel: 44 1603 45 2571  
Fax: 44 1603 45 6844  
downie@bbsrc.ac.uk

**Driscoll, Brian T.**  
McGill Univ  
MacDonald Campus - NRS Dept  
21,111 Lakeshore Road  
SteAnneDeBellevue, QC H9X 3V9  
CANADA  
Tel: (514) 398-7887  
Fax: (514) 398-7990  
driscoll@nrs.mcgill.ca

**Dry, Ian B.**  
CSIRO Plant Industry  
Hartley Grove - Horticulture Unit  
PO Box 350  
Glen Osmond, SA 5064  
AUSTRALIA  
Tel: 61 8 8303 8632  
Fax: 61 8 8303 8601  
ian.dry@csiro.au

**Dudler, Robert K.**  
Univ of Zurich  
Inst of Plant Biology  
Zollikerstr 107  
Zurich, 8008  
SWITZERLAND  
Tel: 41 1 634 8252  
Fax: 41 1 634 8204  
rdudler@botinst.unizh.ch

**Ekramoddoullah, Abul K. M.**  
Canadian Forest Service  
Pacific Forestry Centre  
506 West Burnside Road  
Victoria, BC V8Z 1M5  
CANADA  
Tel: (250) 363-0692  
Fax: (250) 363-0775  
aekramoddoul@pfc.forestry.ca

**El Jaziri, Mondher**  
Univ Libre De Bruxelles  
Plant Biology Dept  
Chaussee De Wavre 1850  
Brussels, BE-1160  
BELGIUM  
Tel: 32 2 650 9181  
Fax: 32 2 650 9175  
jaziri@ulb.ac.be

**Elmerich, Claudine**  
CNRS  
Inst Des Sciences Du Vegetal  
Batiment 23 - Ave De La Terrasse  
Gif Sur Yvette, 91198  
FRANCE  
Tel: 33 1 6982 3690  
Fax: 33 1 6982 3695  
claudine.elmerich@isv.cnrs-gif.fr

- Emerich, David W.**  
Univ of Missouri  
Biochemistry Dept  
117 Schweitzer  
Columbia, MO 65211-0001  
Tel: (573) 882-4252  
Fax: (573) 882-5635  
emerichd@missouri.edu
- Epel, Bernard L.**  
Tel Aviv Univ  
Plant Sciences Dept  
Ramat Aviv  
Tel Aviv, 69978  
ISRAEL  
Tel: 972 3 640 8598  
Fax: 972 3 951 2963  
blepel@post.tau.ac.il
- Escobar, Carolina**  
Univ De Castilla La Mancha  
Cienicias Ambientales (Envl Sciences)  
Audo Carlos III  
Toledo, 45071  
SPAIN  
Tel: 34 925 26 8800x5434  
Fax: 34 925 26 8840  
carolina.escobar@uclm.es
- Esquerre-Tugaye, Marie Therese**  
Univ Paul Sabatier  
Pole Biotech Veg - UMR 5546 CNRS  
24 Chemin De Borde Rouge  
Castanet Tolosan, 31326  
FRANCE  
Tel: 33 5 6219 3519  
Fax: 33 5 6219 3502  
esquerre@sccv.ups-tlse.fr
- Eulgем, Thomas A.**  
Univ of California  
Botany and Plant Science Dept  
Eucalyptus Dr - 3214 Batchelor Hall  
Riverside, CA 92521-0001  
Tel: (951) 827-7740  
Fax: (951) 827-4437  
thomas.eulgem@ucr.edu
- Expert, Dominique**  
CNRS INRA  
Lab De Pathologie Vegetale  
16 Rue Claude Bernard  
Paris, 75005  
FRANCE  
Tel: 33 1 4408 1706  
Fax: 33 1 4408 1698  
expert@inapag.fr
- F**
- Faoro, Franco**  
Univ Degli Studi Di Milano  
Ist Di Virologia Vegetale  
Via Celoria 2  
Milan, 20133  
ITALY  
Tel: 39 2 5031 6786  
Fax: 39 2 5031 6781  
franco.faoro@unimi.it
- Favelukes, Gabriel**  
Univ Nacl de La Plata  
IBBM - Fac C Exactas  
Parral 46, Piso 4, Dept 10  
Buenos Aires, CP, 1405  
ARGENTINA  
Tel: 54 114 901 0053  
Fax: 54 221 226 947  
fave@mail.retina.ar
- Fellers, John P.**  
Kansas State Univ  
USDA ARS - Plant Pathology Dept  
4006 Throckmorton Hall  
Manhattan, KS 66506  
Tel: (785) 532-2367  
Fax: (785) 532-6167  
jpf@pseru.ksu.edu
- Ferro, Jesus Aparecido**  
Allelyx Applied Genomics  
Scientific Directory  
Rua James Clerk Maxwell,  
320-Tecnico Park  
Campinas, SP 13069-380  
BRAZIL  
Tel: 55 19 3783 9406  
Fax: 55 19 3783 9412  
jesus.ferro@allelyx.com.br
- Finan, Turlough M.**  
McMaster Univ  
LSB 539 - Biology Dept  
1280 Main Street W  
Hamilton, ON L8S 4L6  
CANADA  
Tel: (905) 525-9140  
Fax: (905) 521-2955  
finan@mcmaster.ca
- Fiegmann, Judith**  
Ludwig Martimilians Univ  
Biologie I - Botanik  
Menzinger Str 67  
Munchen, D-80638  
GERMANY  
Tel: 49 89 1786 1202  
Fax: 49 89 1786 2274  
fiegmann@botanik.biologie.uni-muenchen.de
- Flores, Zomary**  
Apartment 207  
4817 Sheboygan Ave  
Madison, WI 53705  
Tel: (608) 265-2060  
zflores@wisc.edu
- Fluhr, Robert**  
Weizmann Inst of Science  
Plant Sciences Dept  
PO Box 26  
Rehovot, 76100  
ISRAEL  
Tel: 972 8 934 2175  
Fax: 972 8 934 4181  
robert.fluhr@weizmann.ac.il
- Fort, Kevin P.**  
240 El Cajon Ave  
Davis, CA 95616  
Tel: (530) 752-1050  
kpfort@ucdavis.edu
- Foster, Carol M.**  
Iowa State Univ  
Genetics Dev and Cell Biology Dept  
353 Bessey Hall  
Ames, IA 50011-1100  
Tel: (515) 294-3509  
Fax: (515) 294-1337  
cmfoster@iastate.edu
- Franco De Oliveira, Julio Cezar**  
State Univ of Sao Paulo  
Technology Dept  
UNESP Campus  
Jaboticabal, SP 14870-000  
BRAZIL  
Tel: 55 16 3209 2675  
Fax: 55 16 3203 2373  
jcybler@fcav.unesp.br
- Franken, Philipp**  
Inst for Vegetable and Ornamental  
Crops  
IGZ  
Theodor-Echtermeyer-Weg 1  
Grossbeeren, 14979  
GERMANY  
Tel: 49 3370 178 215  
Fax: 49 3370 155 391  
franken@igz-ve.de
- Frederick, Reid**  
USDA ARS FDWSRU  
1301 Ditto Avenue  
Ft Detrick, MD 21702-5023  
Tel: (301) 619-7386  
Fax: (301) 619-2880  
frederir@ncifcrf.gov
- Freedman, Roger P.**  
Mediant Cambridge  
20 Millers Yard  
10/11 Mill Lane  
Cambridge, CB2 1RQ  
UNITED KINGDOM  
Tel: 44 122 336 9936  
Fax: 44 122 346 4113  
rpf@mediant.co.uk
- Frettinger, Patrick**  
11 Rue Des Jardins  
Bainville, Madon, 54550  
FRANCE  
Tel: 33 67 245 8462  
fettinger@yahoo.fr
- Frugoli, Julia A.**  
Clemson Univ  
Genetics, Biochem, Life Science Studies  
100 Jordon Hall  
Clemson, SC 29634  
Tel: (864) 656-1859  
Fax: (864) 656-0393  
jfrugol@clemson.edu
- Fry, William E.**  
Cornell Univ  
Plant Pathology Dept  
334 Plant Science Building  
Ithaca, NY 14853-4203  
Tel: (607) 255-4677  
Fax: (607) 255-3679  
wef1@cornell.edu
- Fu-Cheng, Lin**  
Zhejiang Univ  
College of Life Sciences  
Kaixuan Road 268, Hangzhou  
Zhejiang, 310 029  
PEOPLES REP OF CHINA  
Tel: 86 571 8697 1185  
Fax: 86 571 8697 1634  
fuchenglin@zjhu.edu.cn
- Fuentes, Patricia I.**  
Ajay SQM Chile S.A.  
Avenida Pdte - Eduardo Frei M.  
Renca, Santiago, 4900  
CHILE  
Tel: 56 2 443 7110  
Fax: 56 2 443 7114  
pfuentes@ajay-sqm.cl
- Funnell, Deanna L.**  
USDA ARS  
Wheat, Sorghum and Forest Research  
Univ of Nebraska - 344 Keim Hall  
Lincoln, NE 68583-0937  
Tel: (402) 472-9099  
Fax: (402) 472-4020  
dfunnell@unlserve.unl.edu
- Fuqua, William C.**  
Indiana Univ  
418 Jordan Hall - Biology Dept  
1001 E Third Street  
Bloomington, IN 47405-3700  
Tel: (812) 856-6005  
Fax: (812) 855-6705  
cfuqua@bio.indiana.edu
- G**
- Gabriel, Dean W.**  
Univ of Florida  
Plant Pathology Dept  
1453 Fifth Hall  
Gainesville, FL 32611  
Tel: (352) 392-7239  
Fax: (352) 392-6532  
gabriel@biotech.ufl.edu
- Gafni, Yedidya D.**  
ARO The Volcani Center  
Plant Genetics Dept  
Bet Dagan, 50250  
ISRAEL  
Tel: 972 3 968 3471  
Fax: 972 3 968 3471  
ygafni@volcani.agri.gov.il
- Gal-On, Amit**  
ARO The Volcani Center  
Plant Virology Dept  
PO Box 6  
Bet Dagan, 50 250  
ISRAEL  
Tel: 972 3 968 3563  
Fax: 972 3 968 3918  
amitg@volcani.agri.gov.il
- Gao, Lingling**  
CSIRO Plant Industry  
Private Bag #5  
Wembley, WA 6913  
AUSTRALIA  
Tel: 61 8 9333 6624  
Fax: 61 8 9387 8991  
lingling.gao@csiro.au
- Gassmann, Walter**  
Univ of Missouri  
Plant Microbiology and Pathology Dept  
371C Life Sciences Center  
Columbia, MO 65211-7310  
Tel: (573) 884-7703  
Fax: (573) 884-9676  
gassmannw@missouri.edu
- Gebhardt, Christiane**  
Max Planck Inst  
Plant Breeding Research and Genetics  
Carl Von Linne Weg 10  
Koln, D-50829  
GERMANY  
Tel: 49 221 5062 430  
Fax: 49 221 5062 413  
gebhardt@mpiz-koeln.mpg.de
- Gee, Christopher T.**  
Cornell Univ  
Plant Pathology Dept  
308 Sturtevant Hall  
Geneva, NY 14456  
Tel: (315) 787-3462  
ctg26@cornell.edu
- Gelvin, Stanton B.**  
Purdue Univ  
Biological Sciences Dept  
West Lafayette, IN 47907  
Tel: (765) 494-4939  
Fax: (765) 496-1496  
gelvin@billbo.bio.purdue.edu

- Georgi, Laura L.**  
USDA ARS AFRS  
2217 Wiltshire Road  
Kearneysville, WV 25430  
georgil@clemson.edu
- Gianinazzi, Silvio**  
INRA CNRS  
UMR INRA/Univ BBCE-IPM  
BP 86510 - Centre De Dijon  
Dijon, CEDEX, 21065  
FRANCE  
Tel: 33 38 069 3146  
Fax: 33 38 069 3753  
silvio@epoisses.inra.fr
- Gijzen, Mark**  
Agric & Agri-Food Canada  
1391 Sandford Street  
London, ON N5V 4T3  
CANADA  
Tel: (519) 457-1470x280  
Fax: (519) 457-3997  
gijzenm@agr.gc.ca
- Giljamse, Eelco**  
Rijk Zwaan BV  
Zaadteelt en Zaadhandel BV  
PO Box 40  
De Lier, 2678 ZG  
NETHERLANDS  
Tel: 31 17 453 2300  
Fax: 31 17 451 8243
- Giudice, Nicole L.**  
Cornell Univ  
Plant Pathology Dept  
NYSAES - 630 West North Street  
Geneva, NY 14456  
Tel: (315) 787-2426  
nl53@cornell.edu
- Gleason, Cynthia A.**  
John Innes Centre  
Disease and Stress Biology  
Norwich Research Park - Colney Lane  
Norwich, NR4 7UH  
UNITED KINGDOM  
Tel: 44 1603 762 633  
cynthia.gleason@bbsrc.ac.uk
- Gonzalez, Juan E.**  
Univ of Texas  
Molecular and Cellular Biology  
FO 31 - Box 830688  
Richardson, TX 75083-0688  
Tel: (972) 883-2526  
Fax: (972) 883-2409  
jgonzal@utdallas.edu
- Gonzalez, Esther M.**  
Univ Public De Navarra  
Ciencias Del Medio Natural  
Campus De Arrosadia  
Pamplona, 31006  
SPAIN  
Tel: 34 948 168 412  
Fax: 34 948 168 390  
esther.gonzalez@unavarra.es
- Goodman, Robert M.**  
Univ of Wisconsin  
689 Russell Labs  
1630 Linden Dr  
Madison, WI 53706-1520  
Tel: (608) 262-9162  
Fax: (608) 262-8643  
rgoodman@wisc.edu
- Gottfert, Michael**  
T U Dresden  
Inst Fur Genetik  
Mommesenstrasse 13  
Dresden, 01062  
GERMANY  
Tel: 49 351 463 4000  
Fax: 49 351 463 7725  
mgoettfe@rcs.urz.tu-dresden.de
- Govers, Francine**  
Wageningen Univ  
Laboratory of Phytopathology  
Binnenhaven 5  
Wageningen, 6709 PD  
NETHERLANDS  
Tel: 31 317 483 138  
Fax: 31 317 483 412  
francine.govers@wur.nl
- Graham, Terrence L.**  
Ohio State Univ  
201 Kottman Hall - Plant Path Dept  
2021 Coffey Road  
Columbus, OH 43210-1044  
Tel: (614) 292-1375  
Fax: (614) 292-4455  
graham.1@osu.edu
- Grant, Murray R.**  
Imperial College At Wye  
Agricultural Sciences Dept  
High Street  
Wye, Kent, TN25 5AH  
UNITED KINGDOM  
Tel: 44 2075 942 883  
Fax: 44 2075 942 640  
m.grant@imperial.ac.uk
- Gray, Stewart M.**  
Cornell Univ  
USDA ARS - Plant Pathology Dept  
334 Plant Science Building  
Ithaca, NY 14853  
Tel: (607) 255-7844  
Fax: (607) 225-2459  
smg3@cornell.edu
- Grenville-Briggs, Laura**  
Univ of Aberdeen  
School of Medical Sciences  
Inst of Medical Sciences - Foresterhill  
Aberdeen, AB25 2ZD  
UNITED KINGDOM  
Tel: 44 1224 555 800  
Fax: 44 1224 555 882  
l.grenville-briggs@abdn.ac.uk
- Gresshoff, Peter M.**  
Univ of Queensland  
Ctr for Integrative Legume Research  
Brisbane St Lucia, QLD 4072  
AUSTRALIA  
Tel: 61 7 3365 3550  
Fax: 61 7 3365 3556  
p.gresshoff@uq.edu.au
- Gross, Dennis C.**  
Texas A&M Univ  
Plant Pathology and Microbiology Dept  
2132 TAMU  
College Station, TX 77843-2132  
Tel: (979) 845-8288  
Fax: (979) 845-6483  
dgross@ppserver.tamu.edu
- Guerinot, Mary Lou**  
Dartmouth College  
Biology Dept  
6044 Gilman  
Hanover, NH 03755  
Tel: (603) 646-2527  
Fax: (603) 646-1347  
guerinot@dartmouth.edu
- Guinel, Frederique C.**  
Wilfrid Laurier Univ  
Biology Dept  
Waterloo, ON N2L 3C5  
CANADA  
Tel: (519) 884-0710x2230  
Fax: (519) 746-0677  
fguinel@wlu.ca
- Guo, Ming**  
Univ of Nebraska  
Plant Science Initiative - Plant Path  
1901 Vine Beadle Center N318  
Lincoln, NE 68588  
mguo@unl.edu
- Harris, Jeanne M.**  
Univ of Vermont  
Botany Dept  
Marsh Life Sciences  
Burlington, VT 05405-0086  
Tel: (802) 656-2933  
Fax: (802) 656-0440  
jmharris@zoo.uvm.edu
- Harrison, Maria J.**  
Boyce Thompson Inst  
Plant Research  
Tower Road  
Ithaca, NY 14853  
Tel: (607) 254-6472  
Fax: (607) 254-6779  
mjh78@cornell.edu
- Hata, Shingo**  
Kyoto Univ  
Graduate School of Biostudies  
Plant Physiology Lab - Sakyo-ku  
Kyoto, 606-8502  
JAPAN  
Tel: 81 75 753 6141  
Fax: 81 75 753 6470  
shing@kais.kyoto-u.ac.jp
- He, Sheng Yang**  
Michigan State Univ  
Plant Research Laboratory  
206 Plant Biology Building  
East Lansing, MI 48824  
Tel: (517) 353-9181  
Fax: (517) 353-9168  
hes@pilot.msu.edu
- He, Ping**  
Massachusetts General Hospital  
Molecular Biology Dept  
Wellman 11  
Boston, MA 02114  
Tel: (617) 726-5963  
phe@molbio.mgh.harvard.edu
- Hebert, Stephanie L.**  
Univ of Arkansas  
Entomology Dept  
320 Agri Bldg  
Fayetteville, AR 72701  
Tel: (479) 575-8437  
Fax: (479) 575-2452  
steph@uark.edu
- Heilbronn, Jackie Rodger**  
Scottish Crop Research Inst  
Plant Pathogen Interaction  
Invergowrie  
Dundee, DD2 5DA  
UNITED KINGDOM  
Tel: 44 1382 562 731  
Fax: 44 1382 562 426  
jheilb@scri.sari.ac.uk
- Hernandez, Georgina**  
CIFN UNAM  
Molecular Ecology Dept  
UNAM - AP Postal 565-A  
Cuernavaca, Mor., 62210  
MEXICO  
Tel: 52 73 139877  
Fax: 52 73 116710  
gina@cifn.unam.mx
- Heu, Sunggi**  
Nat'l Inst of Agric Sci & Tech RDA  
Plant Pathology Dept  
Seodundong 250  
Suwon, 441-707  
SOUTH KOREA  
Tel: 81 31 290 0420  
Fax: 81 31 290 0406  
heu@rda.go.kr

- Higgins, Gillian S.**  
Univ of York  
Biology Dept - Area 11  
PO Box 373 - Heslington  
York, Y010 5YU  
UNITED KINGDOM  
Tel: 44 1904 328 687  
gsh106@york.ac.uk
- Hirano, Susan S.**  
28 Mondale Ct  
Madison, WI 53705  
Tel: (608) 262-7236  
Fax: (608) 263-2626  
ssh@plantpath.wisc.edu
- Hirsch, Ann M.**  
Univ of California  
MCD Biology Dept  
405 Hilgard Ave  
Los Angeles, CA 90095-1606  
Tel: (310) 206-8673  
Fax: (310) 206-5413  
ahirsch@ucla.edu
- Hofte, Monica M.**  
RUG Labo Phytopathology  
Crop Protection Dept  
Coupure Links 653  
Gent, 9000  
BELGIUM  
Tel: 32 9 264 6017  
Fax: 32 9 264 6238  
monica.hofte@rug.ac.be
- Holsters, Marcelle**  
RUG Lab Molecular Genetics  
Technologie Park 927  
Gent, Zwijnaarde, 9052  
BELGIUM  
Tel: 32 9 33 13900  
Fax: 32 9 33 13809  
mahol@psb.ugent.be
- Hontzeas, Nikos**  
Purdue Univ  
Chemistry Dept  
560 Oval Dr  
West Lafayette, IN 47907-2084  
Tel: (765) 496-3491  
Fax: (765) 494-0239  
nhontzea@purdue.edu
- Horvath, Diana M.**  
Mediant  
Suite 1907  
1630 Chicago Ave  
Evanston, IL 60201  
Tel: (847) 425-1277  
Fax: (847) 425-1232  
dmh@mediant.us
- Hua, Jian**  
Cornell Univ  
Plant Biology Dept  
140 Emerson Hall  
Ithaca, NY 14853  
Tel: (607) 255-5554  
Fax: (607) 255-5407  
jh299@cornell.edu
- Hua, Lin Chia**  
PO Box 117-1190 Taipei  
Taipei City, 10699  
TAIWAN REP OF CHINA  
fannysel@yahoo.com.tw
- Huang, Xiang**  
BASF Corp  
26 Davis Dr  
Res Triangle Park, NC 27709-2910  
Tel: (919) 547-2170  
Fax: (919) 547-2423  
huangx@basf.com
- Hudson, Laura C.**  
North Carolina State Univ  
Plant Pathology Dept  
8400 Method Road - Unit 4  
Raleigh, NC 27697  
Tel: (919) 515-6693  
Fax: (919) 515-1279  
lchud02@ncsu.edu
- Hulbert, Scot H.**  
Kansas State Univ  
Plant Pathology Dept  
Throckmorton Hall  
Manhattan, KS 66506  
Tel: (785) 532-1392  
Fax: (785) 532-5692  
shulbrt@ksu.edu
- Huss-Danell, Kerstin**  
Swedish Univ of Agric Sciences (SLU)  
Crop Science Dept  
Box 4097  
Umea, 90403  
SWEDEN  
Tel: 46 90 786 8710  
Fax: 46 90 122 195  
kerstin.huss-danell@njv.slu.se
- Hwang, Byung Kook**  
Korea Univ  
Molecular Plant Pathology Laboratory  
College of Life and Env Sci - Anamdong  
Sungbukku, Seoul, 136-701  
SOUTH KOREA  
Tel: 82 2 3290 3061  
Fax: 82 2 925 1970  
bkhwang@korea.ac.kr
- Hwang, Ingyu**  
Seoul Natl Univ  
School of Agricultural Biotechnology  
San 56-1, Shillim-dong, Kwanak-gu  
Seoul, 151-742  
KOREA  
Tel: 81 2 880 4676  
Fax: 81 2 873 2317  
ingyu@snu.ac.kr
- Hwang, Duk-Ju**  
Nat'l Inst of Agricultural Biotechnology  
Gene Expression Team  
Seodun Dong 249, Kyungi Do  
Suwon, Kyungia, 441-707  
KOREA  
Tel: 82 31 299 1708  
Fax: 82 31 299 1702  
djhwang@rda.go.kr
- Hwang, Cheol H.**  
Dankook Univ  
Bioresource Science Dept  
Anseodong San 29  
Cheonan, Chungnam, 330-714  
SOUTH KOREA  
Tel: 82 41 550 3626  
Fax: 82 41 553 3864  
sfeho@dankook.ac.kr
- Hynes, Michael F.**  
Univ of Calgary  
Biology Dept  
2500 Univ Drive NW  
Calgary, AB T2N 1N4  
CANADA  
Tel: (403) 220-8473  
Fax: (403) 289-9311  
hynes@ucalgary.ca
- Iacobellis, Nicola Sante**  
Univ Basilicata  
Biologia - Biotech Agro Forest  
Via N Sauro 85  
Potenza, 85100  
ITALY  
Tel: 39 971 205 498  
Fax: 39 971 205 702  
iacobellis@unibas.it
- Iba, Koh**  
Kyushu Univ  
Biology Dept - Faculty of Science  
Hakozaki, Higoshi-ku  
Fukuoka, 812-8581  
JAPAN  
Tel: 81 92 642 2621  
Fax: 81 92 642 2621  
koibasch@mbox.nc.kyushu-u.ac.jp
- Ichinose, Yuki**  
Okayama Univ  
Dept of Agric  
1-1-1, Tsushima-naka  
Okayama, 700-8530  
JAPAN  
Tel: 81 86 251 8308  
Fax: 81 86 251 8308  
yuki@cc.okayama-u.ac.jp
- Inada, Noriko**  
7815 Potrero Ave  
El Cerrito, CA 94530  
Tel: (510) 643-4862  
Fax: (510) 642-4995  
norikoi@nature.berkeley.edu
- Inagaki, Yoshishige**  
Okayama Univ  
Fac of Agric - Genetic Engineering Lab  
Tsushima-naka 1-1-1  
Okayama, 700-8530  
JAPAN  
Tel: 81 86 251 8307  
Fax: 81 86 251 8307  
yinagaki@cc.okayama-u.ac.jp
- Iriti, Marcelllo**  
Univ Degli Studi Di Milano  
Istituto De Patologia Vegetale  
Via Celoria 2  
Milano, 20133  
ITALY  
Tel: 39 2 5031 6766  
Fax: 39 2 5031 6781  
marcello.iriti@unimi.it
- Ishihara, Hiromichi**  
Colorado State Univ  
Bioagric Science and Pest Mgmt Dept  
1177 Campus Delivery  
Fort Collins, CO 80523-1177  
Tel: (970) 491-6997  
Fax: (970) 491-3862  
hiroishi@lamar.colostate.edu
- Ishimaru, Carol A.**  
Univ of Minnesota  
495 Borlaug Hall - Plant Path Dept  
1991 Upper Buford Circle  
St Paul, MN 55108-0010  
Tel: (612) 625-9736  
Fax: (612) 625-9728  
cishimar@tc.umn.edu
- J**
- James, Euan K.**  
Univ of Dundee  
Ctr for High Resolution Imaging/Process  
MSI/WTB Complex-School of Life Sciences  
Dundee, DDI 5EH  
UNITED KINGDOM  
Tel: 44 1382 344 741  
Fax: 44 1382 345 893  
e.k.james@dundee.ac.uk
- Jelenska, Joanna**  
Univ of Chicago  
MGCB Dept  
1103 E 57th Street - EBC 409  
Chicago, IL 60637  
Tel: (773) 834-1906  
Fax: (773) 702-9270  
jjelensk@uchicago.edu
- Jenner, Carol**  
Warwick HRI  
Wellesbourne  
Warwickshire, CV35 9EF  
UNITED KINGDOM  
Tel: 44 24 7657 4455  
Fax: 44 24 7657 4500  
carol.jenner@warwick.ac.uk
- Jensen, Michael K.**  
Royal Vet & Agric Univ  
Plant Biology Dept  
Thorvaldsen Veg 40 1st Floor-Koberhaun  
Fredericksberg C, 1870  
DENMARK  
Tel: 45 35 283 312  
mkjr@kvl.dk
- Jia, Yulin**  
USDA ARS  
Dale Bumpers Natl Rice Res Center  
2890 State Hwy 130 E-PO Box 1090  
Stuttgart, AR 72160-0287  
Tel: (870) 672-9300x229  
Fax: (870) 673-7581  
yjia@spa.ars.usda.gov
- Jin, Hailing**  
Univ of California  
Plant Pathology Dept  
900 University Ave  
Riverside, CA 92521-0001  
Tel: (951) 827-7995  
Fax: (951) 827-4294  
hailingji@ucr.edu
- Johnson, Evan G.**  
Cornell Univ  
Plant Pathology Dept  
334 Plant Science Building  
Ithaca, NY 14850  
Tel: (607) 255-9770  
Fax: (607) 255-4471  
egj4@cornell.edu
- Jones, Kathryn M.**  
Apartment 2L  
176 Richdale Ave  
Cambridge, MA 02140  
Tel: (617) 253-4721  
Fax: (617) 253-2643  
kmjones@mit.edu
- Jones, Jonathan**  
John Innes Centre  
Sainsbury Lab  
Norwich Research Park  
Colney Lane, Norwich, NR4 7UH  
UNITED KINGDOM  
Tel: 44 1603 450 327  
Fax: 44 1603 450 011  
jonathan.jones@sainsbury-laboratory.ac.uk

- Jones, Jeffrey B.**  
Univ of Florida  
Plant Path Dept  
1453 Fifield Hall - PO Box 110680  
Gainesville, FL 32611-0680  
Tel: (352) 392-3631  
Fax: (352) 392-6532  
jbjones@ufl.edu
- Joosten, Matthieu**  
Wageningen Agricultural Univ  
Dept of Phytopathology  
Binnenhaven 9  
Wageningen, 6709 PD  
NETHERLANDS  
Tel: 31 317 483 411  
Fax: 31 317 483 412  
matthieu.joosten@wur.nl
- Joshi, Madhumita V.**  
Cornell Univ  
Plant Pathology Dept  
334 Plant Science Building  
Ithaca, NY 14850  
Tel: (607) 255-9770  
Fax: (607) 255-4471  
mvj4@cornell.edu
- Jung, Christian**  
Univ of Kiel  
Inst of Crop Science and Plant Breeding  
Olshausenstrasse 40  
Kiel, 24118  
GERMANY  
Tel: 49 431 880 7364  
Fax: 49 431 880 2566  
c.jung@plantbreeding.uni-kiel.de
- Jung, Ho Won**  
Univ of Chicago  
Molecular Genetics and Cell Biology  
1103 East 57th Street - EBC 409  
Chicago, IL 60637  
Tel: (773) 834-1906  
hjung@bsd.uchicago.edu
- Jurick, Wayne M.**  
Univ of Florida  
Plant Pathology Dept  
1453 Fifield Hall - PO Box 110680  
Gainesville, FL 32611-0680  
Tel: (352) 392-3631x337  
wmj@ufl.edu
- K**
- Kachroo, Aardra**  
Univ of Kentucky  
Plant Pathology Dept  
1405 Veterans Dr  
Lexington, KY 40546-0091  
Tel: (859) 257-7445  
Fax: (859) 323-1961  
apkach2@uky.edu
- Kachroo, Pradeep**  
Univ of Kentucky  
Plant Pathology Dept  
1405 Veterans Dr  
Lexington, KY 40546-0091  
Tel: (859) 257-7445  
Fax: (859) 323-1961  
pk62@uky.edu
- Kalliovi, Papadopoulou**  
N.A.G.R.E.F.  
Inst of Kalamata  
Lakonikis 87  
Kalamata, 24100  
GREECE  
Tel: 30 721 91984  
Fax: 30 721 27133  
kppapadopoulou.kal@nagref.gr
- Kamakura, Takashi**  
Tokyo Univ of Science  
Applied Biological Science Dept  
2641 Yamazaki  
Noda, Chiba, 278-8510  
JAPAN  
Tel: 81 4 7124 1501x3411  
Fax: 81 4 7123 9767  
kamakura@rs.noda.tus.ac.jp
- Kamoun, Sophien**  
Ohio State Univ  
OARD - Plant Pathology Dept  
1680 Madison Ave  
Wooster, OH 44691-4114  
Tel: (330) 263-3847  
Fax: (330) 263-3841  
kamoun.1@osu.edu
- Kang, Kyu Y.**  
Gyeongsang Natl Univ  
Agricultural Chemistry Dept  
Chinju, 660-701  
SOUTH KOREA  
Tel: 82 55 751 5468  
Fax: 82 55 757 0178  
kykang@nongae.gsnu.ac.kr
- Kang, Byoung-Cheol**  
Cornell Univ  
Plant Breeding Dept  
317 Bradfield Hall - Tower Road  
Ithaca, NY 14850  
Tel: (607) 255-9964  
Fax: (607) 255-4484  
bk54@cornell.edu
- Kapulnik, Yoram**  
ARO The Volcani Center  
Agronomy and Natural Resources  
Bet Dagan, 50250  
ISRAEL  
Tel: 972 3 968 3483  
Fax: 972 3 966 9642  
kapulnik@volcani.agri.gov.il
- Kavroulakis, Nektarios**  
Inst of Environmental Biotechnology  
NAGREF  
Lakomikis 87  
Kalamata, 241 00  
GREECE  
Tel: 30 2 7210 9812  
Fax: 30 2 7210 27133  
nkavroulakis@in.gr
- Keel, Christoph J.**  
Univ de Lausanne  
Microbiologie Fondamentale Dept  
Batiment De Biologie  
Lausanne-Dorigny, CH-1015  
SWITZERLAND  
Tel: 41 21 692 5636  
Fax: 41 21 692 5605  
christoph.keel@imf.unil.ch
- Kers, Johan A.**  
Cornell Univ  
Plant Pathology Dept  
334 Plant Science Building  
Ithaca, NY 14853  
Tel: (607) 255-9770  
Fax: (607) 255-4471  
jk327@cornell.edu
- Kertesz, Michael A.**  
Univ of Manchester  
School of Biological Sciences  
1-800 Stopford Bldg - Oxford Road  
Manchester, M13 9PT  
UNITED KINGDOM  
Tel: 44 161 275 3895  
Fax: 44 161 275 5656  
michael.kertesz@man.ac.uk
- Kijne, Jan W.**  
Leiden Univ  
Wassenaarseweg 64  
Inst Molecular Plant Sciences  
Leiden, 2333 AL  
NETHERLANDS  
Tel: 31 71 527 5057  
Fax: 31 71 527 5088  
kijne@rulbim.leidenuniv.nl
- Kim, Jihyun F.**  
Korea Res Inst of Bioscience & Biotech  
Microbial Genomics Laboratory  
PO Box 115  
Yuseong-gu, Daejeon, 305-600  
SOUTH KOREA  
Tel: 82 42 860 4412  
Fax: 82 42 879 8595  
jfk@krrib.re.kr
- Kim, Jung-Gun**  
Stanford Univ  
Biological Sciences Dept  
224 Gilbert Bldg - 371 Serra Mall  
Stanford, CA 94305  
Tel: (650) 723-3500  
Fax: (650) 723-6132  
junggunk@stanford.edu
- Kim, Jong Heon**  
USDA  
Plant Mycotoxin Research Unit  
800 Buchanan Street  
Albany, CA 94710  
Tel: (510) 559-5841  
Fax: (510) 559-5737  
jhkim@pw.usda.gov
- Kingsley, Mark T.**  
Pacific Northwest National Lab  
MS K2-21  
PO Box 9999  
Richland, WA 99352-0999  
Tel: (509) 375-3965  
Fax: (509) 375-6666  
mark.kingsley@pnl.gov
- Klessig, Daniel F.**  
Boyce Thompson Inst  
Plant Research  
Tower Road  
Ithaca, NY 14853-1802  
Tel: (607) 254-1300  
Fax: (607) 254-6779  
dkf8@cornell.edu
- Knogge, Wolfgang H.**  
Inst of Plant Biochemistry  
Weinberg 3  
Halle, 06120  
GERMANY  
Tel: 49 345 5582 1450  
Fax: 49 345 5582 1409  
wknogge@ipb-halle.de
- Kobayashi, Issei**  
Mie Univ  
Plant Functional Genomics Division  
1515 Kamihama - Life Science Res Ctr  
Tsu, Mie, 514-8507  
JAPAN  
Tel: 81 592 31 9074  
Fax: 81 592 31 9048  
issei@gene.mie-u.ac.jp
- Kogel, Karl-Heinz**  
Justus Liebig Univ  
Inst Fur Phytopath/Zoologie  
Heinrich Buff Ring 26-32  
Giessen, 35392  
GERMANY  
Tel: 49 641 993 7490  
Fax: 49 641 993 7499  
karl-heinz.kogel@agrar.uni-giessen.de
- Koltai, Hinanit**  
ARO The Volcani Center  
Genomics Dept  
PO Box 6  
Bet Dagan, 50250  
ISRAEL  
Tel: 972 3 968 3039  
Fax: 972 3 966 9583  
hkoltai@agri.gov.il
- Kondorosi, Adam**  
CNRS  
Inst Des Sciences Du Vegetal  
Ave de la Terrasse  
Gif Sur Yvette, 91198  
FRANCE  
Tel: 33 16 982 3698  
Fax: 33 16 982 3695  
adam.kondorosi@isv.cnrs-gif.fr
- Kosuta, Sonja Anne**  
John Innes Centre  
Disease and Stress Biology  
Colney Lane  
Norwich, NR4 7UH  
UNITED KINGDOM  
Tel: 44 1603 450 620  
Fax: 44 1603 456 844  
sonja.kosuta@bbsrc.ac.uk
- Kouchih, Hiroshi**  
Nat'l Inst of Agrobiological Sciences  
2-1-2 Kannondai  
Tsukuba Ibaraki, 305  
JAPAN  
Tel: 81 298 388377  
Fax: 81 298 388347  
kouchih@niafrc.go.jp
- Krause, Andrea**  
Univ of Bremen FB2  
Allgemeine Mikrobiologie  
Postfach 33 04 40  
Bremen, 28334  
GERMANY  
Tel: 49 421 218 4327  
Fax: 49 421 218 9058  
akrause@uni-bremen.de
- Kronstad, James W.**  
Univ of British Columbia  
Biotechnology Lab  
237-6174 Univ Blvd  
Vancouver, BC V6T 1Z3  
CANADA  
Tel: (604) 822-4732  
Fax: (604) 822-6097  
kronstad@interchange.ubc.ca
- Kuester, Helge**  
Univ Bielefeld  
Genetics Dept  
Universitaetsstrasse 25  
Bielefeld, 33615  
GERMANY  
Tel: 49 5211 064 819  
Fax: 49 5211 065 626  
helge.kuester@genetik.uni-bielefeld.de
- Kunkel, Barbara N.**  
Washington Univ  
Biology Dept Campus Box 1137  
1 Brookings Dr  
Saint Louis, MO 63130-4862  
Tel: (314) 935-7284  
Fax: (314) 935-4432  
kunkel@biology.wustl.edu

- Kuykendall, L. David**  
USDA ARS PSI MPPL  
Molecular Plant Pathology Lab-BARC West  
Bldg 004 Rm 120 - 10300 Baltimore Ave  
Beltsville, MD 21042  
Tel: (301) 504-7072  
Fax: (301) 504-5449  
kuykendl@ba.ars.usda.gov
- Kvarnheneden, Anders**  
Swedish Univ of Agric Sciences  
Plant Biology and Forest Genetics  
PO Box 7080  
Uppsala, 75007  
SWEDEN  
Tel: 46 18 673 337  
Fax: 46 18 673 279  
anders.kvarnheneden@vbsg.slu.se
- Lamb, Christopher J.**  
John Innes Centre  
Norwich Research Park  
Colney Lane  
Norwich, NR4 7UH  
UNITED KINGDOM  
Tel: 44 1603 450 265  
Fax: 44 1630 450 016  
chris.lamb@bbsrc.ac.uk
- Lambert, Kris N.**  
Univ of Illinois  
Crop Sciences Dept  
1102 S Goodwin Ave  
Urbana, IL 61801  
Tel: (217) 265-5165  
Fax: (217) 244-1230  
knlamb@uiuc.edu
- Larney, Robert T.**  
USDA ARS  
1500 N Central Ave  
Sidney, MT 59270  
Tel: (406) 433-9490  
Fax: (406) 433-5038  
rlarney@sidney.ars.usda.gov
- Lawrence, Christopher B.**  
Virginia Bioinformatics Inst  
Virginia Tech  
1880 Pratt Dr - Bldg XV (0477)  
Blacksburg, VA 24061-0477  
Tel: (540) 231-6361  
Fax: (540) 231-7477  
lawrence@vbi.vt.edu
- Le Gall, Olivier J. J.**  
INRA  
Virologie Vegetale IBVM  
BP 81  
Villenave d'Ornon, 33883  
FRANCE  
Tel: 33 5 56 843 205  
Fax: 33 5 56 843 221  
legall@bordeaux.inra.fr
- Leach, Jan E.**  
Colorado State Univ  
Bioagric Sci and Pest Mgmt Dept  
Plant Sciences Building  
Fort Collins, CO 80523-1177  
jan.leach@colostate.edu
- Lee, Min Woo**  
Univ of Chicago  
Molecular Genetics and Cell Biology  
Dept  
1103 East 7th Street - EBC 410  
Chicago, IL 60637  
Tel: (773) 834-1906  
Fax: (773) 702-9270  
mwlee@midway.uchicago.edu
- Legocki, Andrzej B.**  
Inst of Bioorganic Chemistry  
Noskowskiego 12-14  
Poznan, 61-704  
POLAND  
Tel: 48 61 852 8919  
Fax: 48 61 852 0532  
legocki@ibch.poznan.pl
- Leister, R. Todd**  
Univ of California  
Plant and Microbial Biology Dept  
111 Koshland Hall  
Berkeley, CA 94720-3110  
Tel: (510) 643-7133  
leister@nature.berkeley.edu
- Leon-Barrios, Milagros A.**  
Univ de La Laguna  
Microbiologia Dept  
Facultad de Farmacia  
La Laguna, 38071  
SPAIN  
Tel: 34 22 318 481  
Fax: 34 22 318 477  
mileonba@ull.es
- Leong, Sally A.**  
USDA ARS  
Plant Disease Resistance Unit  
1630 Linden Dr  
Madison, WI 53706-1520  
Tel: (608) 262-5309  
Fax: (608) 262-1541  
sal@plantpath.wisc.edu
- Lerner, Jeffrey M.**  
39 Chatanika Ave  
Worcester, MA 01602  
Tel: (508) 757-7244  
Fax: (413) 545-2532  
jeffreylerner@att.net
- Li, Xiang-Qian**  
Univ of California At San Diego  
Biology Dept  
9500 Gilman Dr - MC-0349  
La Jolla, CA 92093  
Tel: (858) 822-1397  
Fax: (858) 822-2003  
xli@ucsd.edu
- Li, Donghui**  
Univ of California  
Plant and Microbial Biology Dept  
241 Koshland Hall  
Berkeley, CA 94720  
Tel: (510) 643-7133  
Fax: (510) 642-4995  
li@nature.berkeley.edu
- Lightfoot, David A.**  
Southern Illinois Univ  
Plant Soil and General Agirc Dept  
Room 176  
Carbondale, IL 62901-4415  
Tel: (618) 453-1797  
Fax: (618) 453-5886  
ga4082@siu.edu
- Lin, Nai-Chun**  
Boyce Thompson Inst  
Plant Research  
Tower Road  
Ithaca, NY 14853  
Tel: (607) 254-1386  
nl37@cornell.edu
- Lindberg, Magdalen**  
Cornell Univ  
Plant Pathology Dept  
334 Plant Science Building  
Ithaca, NY 14850  
Tel: (607) 254-7297  
Fax: (607) 255-4471  
ml16@cornell.edu
- Lindow, Steven E.**  
Univ of California  
Plant and Microbial Biology Dept  
111 Koshland Hall  
Berkeley, CA 94720-3102  
Tel: (510) 642-4174  
Fax: (510) 642-4995  
icelab@socrates.berkeley.edu
- Lindstrom, Kristina**  
Univ of Helsinki  
Applied Chem and Microbiology  
PO Box 56 - Vilkkulaari 9  
Helsinki, 00014  
FINLAND  
Tel: 358 970 855 282  
Fax: 358 970 85322  
lindstro@millipede.helsinki.fi
- Lipka, Volker**  
Univ Tubingen  
ZMBP, Pflanzenbiochemie Dept  
Auf Der Morgenstelle 5  
Tubingen, DE-72076  
GERMANY  
Tel: 49 7071 297 6651  
Fax: 49 7071 295 226  
volker.lipka@zmbp.uni-tuebingen.de
- Liu, Hui**  
Scottish Crop Research Inst  
Plant Pathogen Interactions  
Invergowrie  
Dundee, DD2 5DA  
UNITED KINGDOM  
Tel: 44 1382 562 731  
Fax: 44 1382 562 426  
hliu@scri.sari.ac.uk
- Lojkowska, Ewa**  
Univ of Gdansk  
Biotechnology Dept  
24 Klakki Str  
Gdansk, 80-822  
POLAND  
Tel: 48 58 312 241x45  
Fax: 48 58 312 807  
lojkowsk@biotech.univ.gda.pl
- Long, Sharon R.**  
Stanford Univ  
Bio Sciences Dept  
216 Gilbert Bldg - 371 Serra Mall  
Stanford, CA 94305-5020  
Tel: (650) 723-3232  
Fax: (650) 725-8309  
srl@stanford.edu
- Lorito, Matteo**  
Univ Degli Studi Di Napoli  
Dip Arropave, Sez Patologia Veg  
Via Universita, 100  
Portici (NA), 80055  
ITALY  
Tel: 39 81 775 5142  
Fax: 39 81 775 5320  
lorito@unina.it
- Maldonado-Bonilla, Luis D.**  
CINVESTAV - IPN  
Genetic Engineering  
Km 9.6 Lib Norte Carretera  
Irapuato-Leon  
Irapuato, Gto., 36500  
MEXICO  
Tel: 52 462 623 9659  
Fax: 52 462 624 5849  
elozoya@ira.cinvestav.mx
- Lu, Shun-Wen**  
Cornell Univ  
Plant Pathology Dept  
334 Plant Science Building  
Ithaca, NY 14853-5904  
Tel: (607) 255-7832  
Fax: (607) 255-4471  
swl2@cornell.edu
- Lugtenberg, Egbertus (Ben)**  
Leiden Univ  
Inst of Biology  
Wassenaarseweg 64  
Leiden, 2333 AL  
NETHERLANDS  
Tel: 31 71 5275 5063  
Fax: 31 71 527 5088  
lugtenberg@rulbim.leidenuniv.nl
- Ma, Wenbo**  
Univ of Toronto  
Botany Dept  
25 Willcocks Street - Room 2050  
Toronto, ON M5S 3B2  
CANADA  
Tel: (416) 946-7121  
Fax: (416) 494-6272  
wenboma@botany.utoronto.ca
- Maldonado-Bonilla, Luis D.**  
CINVESTAV - IPN  
Genetic Engineering  
Km 9.6 Lib Norte Carretera  
Irapuato-Leon  
Irapuato, Gto., 36500  
MEXICO  
Tel: 52 462 623 9659  
Fax: 52 462 624 5849  
lmalodona@ira.cinvestav.mx
- Malnoy, Mickael A.**  
Cornell Univ  
Plant Pathology Dept  
NYSAES - 630 North St  
Geneva, NY 14456  
Tel: (315) 787-2468  
Fax: (315) 787-2389  
mam262@cornell.edu
- Mansfield, John W.**  
Imperial College At Wye  
Biology Dept  
Wye Campus  
Ashford, Kent, TN25 5AH  
UNITED KINGDOM  
Tel: 44 1233 812 027  
j.mansfield@imperial.ac.uk
- Manulis, Shulamit**  
ARO The Volcani Center  
Plant Pathology Dept  
Bet Dagan, 50250  
ISRAEL  
Tel: 972 3 968 3685  
Fax: 972 3 968 3686  
shulam@volcani.agri.gov.il

- Marek, Stephen M.**  
 Oklahoma State Univ  
 Entomology and Plant Pathology Dept  
 127 Noble Research Center  
 Stillwater, OK 74078-3033  
 Tel: (405) 744-3090  
 Fax: (405) 744-6039  
 mareks@okstate.edu
- Marmiroli, Nelson N.**  
 Univ di Parma  
 Environmental Science Dept  
 Viale Delle Scienze  
 Parma, 43100  
 ITALY  
 Tel: 39 521 905 606  
 Fax: 39 521 905 665  
 marmiroli@pruniv.cce.unipr.it
- Martin, Gregory B.**  
 Boyce Thompson Inst  
 Tower Road  
 Ithaca, NY 14850  
 Tel: (607) 254-1208  
 Fax: (607) 255-6695  
 gbm7@cornell.edu
- Martin Sanchez, Juan A.**  
 Univ De Lleida  
 Centre R and D De Lleida  
 Alcalde Rovira Roure 177  
 Lleida, 25198  
 SPAIN  
 Tel: 34 973 702 569  
 Fax: 34 923 238 301
- Martinez-Romero, Esperanza**  
 Univ Nacional Autonoma De Mexico  
 Apdo Postal 565-A  
 Cuernavaca, Mor., 62251  
 MEXICO  
 Fax: 52 777 317 5581  
 emartine@ccq.unam.mx
- Matsuda, Yoshinori**  
 Kinki Univ  
 Faculty of Agric - Plant Pathology Lab  
 3327-204 Nakamachi  
 Nara, 631-8505  
 JAPAN  
 Tel: 81 742 43 1511  
 Fax: 81 742 43 1155  
 ymatsuda@nara.kindai.ac.jp
- Matsushita, Yasuhiro**  
 Tokyo Univ of Agric & Technology  
 Gene Research Center  
 3-5-8 Saaiwai-cho - Fuchu-Shi  
 Tokyo, 183-8509  
 JAPAN  
 Tel: 81 42 367 5855  
 Fax: 81 42 367 5855  
 ymatsu@cc.tuat.ac.jp
- Matthysse, Ann G.**  
 Univ of North Carolina  
 Coker Hall CB3280  
 Chapel Hill, NC 27599-3280  
 Tel: (919) 962-6941  
 Fax: (919) 962-1625  
 ann\_matthysse@unc.edu
- Mauch, Felix C.**  
 Univ of Fribourg  
 Biology Dept  
 Rue Du Muser 10  
 Fribourg, 1700  
 SWITZERLAND  
 Tel: 41 26 300 8817  
 Fax: 41 26 300 9740  
 felix.mauch@unifr.ch
- Mauch-Mani, Brigitte**  
 Univ De Neuchatel  
 Biochmie Dept  
 Rue Emile Argand 9 - CP2  
 Neuchatel, 2007  
 SWITZERLAND  
 Tel: 41 32 718 2205  
 Fax: 41 32 718 2201  
 brigitte.mauch@unine.ch
- Mayama, Shigeyuki**  
 Kobe Univ  
 Faculty of Agric - Plant Pathology Dept  
 Nada-Ku Rokkodai-Cho  
 Kobe, 657-8501  
 JAPAN  
 Tel: 81 78 803 5864  
 Fax: 81 78 803 5865  
 mayama@kobe-u.ac.jp
- Mazzola, Mark**  
 USDA ARS  
 Tree Fruit Research Lab  
 1104 N Western Ave  
 Wenatchee, WA 98801-1230  
 Tel: (509) 664-2280  
 Fax: (509) 664-2287  
 mazzola@tfrl.ars.usda.gov
- McCafferty, Heather R. K.**  
 Hawaii Agric Research Center  
 Suite 300  
 99-193 Aiea Heights Dr  
 Aiea, HI 96701-3911  
 Tel: (808) 486-5303  
 Fax: (808) 486-5020  
 hmccafferty@harc-hspa.com
- McDowell, John M.**  
 Virginia Tech  
 Fralin Biotechnology Center  
 PO Box 0346  
 Blacksburg, VA 24061-0346  
 Tel: (540) 231-2388  
 Fax: (540) 231-7126  
 johnmcd@vt.edu
- McNellis, Timothy W.**  
 Penn State Univ  
 Plant Pathology Dept  
 211 Buckhort Lab  
 University Park, PA 16802  
 Tel: (814) 863-7646  
 Fax: (814) 863-7217  
 twm4@psu.edu
- Melcher, Ulrich K.**  
 Oklahoma State Univ  
 Biochem and Molec Biology Dept  
 246 Noble Research Center  
 Stillwater, OK 74078-3035  
 Tel: (405) 744-6210  
 Fax: (405) 744-7799  
 umelcher@biochem.okstate.edu
- Mellgren, Eve M.**  
 Washington Univ  
 Biology Dept  
 1 Brookings Dr - Campus Box 1137  
 St Louis, MO 63130  
 Tel: (314) 935-4728  
 Fax: (314) 935-4432  
 mellgren@biology2.wustl.edu
- Meyers, Blake C.**  
 Univ of Delaware  
 Plant and Soil Sciences Dept  
 15 Innovation Way - Room 230  
 Newark, DE 19711  
 Tel: (302) 831-3418  
 Fax: (302) 831-4841  
 meyers@dbi.udel.edu
- Michelmore, Richard W.**  
 Univ of California  
 Vegetable Crops Dept  
 148 Asmundson Hall  
 Davis, CA 95616-8746  
 Tel: (530) 752-1729  
 Fax: (530) 752-9659  
 rwmichelmore@ucdavis.edu
- Mitchell, Heidi J.**  
 CAMBIA  
 Molecular Technologies  
 Bldg 401B - Clunies Ross St - Black Mtn  
 Canberra, ACT 2601  
 AUSTRALIA  
 Tel: 61 2 6246 4512  
 Fax: 61 2 6246 4501  
 h.mitchell@cambia.org
- Moeder, Wolfgang A.**  
 Univ of Toronto  
 Botany Dept  
 25 Willcocks Street  
 Toronto, ON M5S 3B2  
 CANADA  
 Tel: (416) 946-0444  
 Fax: (416) 978-5878  
 moeder@botany.utoronto.ca
- Moffett, Peter**  
 Boyce Thompson Inst  
 Tower Road  
 Ithaca, NY 14850  
 Tel: (607) 254-1362  
 Fax: (607) 254-1242  
 pm99@cornell.edu
- Mohr, Toni J.**  
 Virginia Tech  
 PPWS Dept  
 Fralin Biotechnology Center  
 Blacksburg, VA 24061  
 Tel: (540) 231-2905  
 tjburbid@vt.edu
- Moll, Simon M.**  
 Cornell Univ  
 Plant Pathology Dept  
 334 Plant Science Building  
 Ithaca, NY 14850  
 Tel: (607) 255-9770  
 Fax: (607) 255-8835  
 moll0035@flinders.edu.au
- Moraes, Marcelo G.**  
 UFRGS  
 Fitossanidade Dept  
 Av Bento Gonçalves 7712  
 Porto Alegre, RS 91540-000  
 BRAZIL  
 Tel: 55 51 3316 7464  
 Fax: 55 51 3316 7464  
 mgm@ufrgs.br
- Morales, Christina Q.**  
 1580 Euclid Ave  
 Berkeley, CA 94708  
 Tel: (510) 548-8485  
 Fax: (510) 642-9017  
 cmorales@berkeley.edu
- Mori, Gladys**  
 Univ Nacional De Rio Cuarto  
 Fisico-Quimicas Y Naturales  
 Ruta 3 Km 601 - Fac De Ciencias  
 Exactas  
 Rio Cuarto, Cordoba, 5800  
 ARGENTINA  
 Tel: 54 358 467 6222  
 Fax: 54 358 467 6530  
 gmori@exa.unrc.edu.ar
- Nayudu, Murali M.**  
 Australian Natl Univ  
 Botany and Zoology Division  
 Faculty of Science  
 Canberra, ACT 2000  
 AUSTRALIA  
 Tel: 61 2 6125 3643  
 Fax: 61 2 6125 5573  
 murali.nayudu@anu.edu.au
- Nelson, Richard S.**  
 Samuel Roberts Noble Foundation  
 PO Box 2180  
 Ardmore, OK 73402-2180  
 Tel: (580) 224-6600  
 Fax: (580) 224-6692  
 rsnelson@noble.org
- Nelson, Louise M.**  
 Okanagan Univ College  
 Research Dept  
 3333 University Way  
 Kelowna, BC V1V 1V7  
 CANADA  
 Tel: (250) 979-6437  
 Fax: (250) 979-6438  
 lnelson@ouc.bc.ca

- Nester, Eugene W.**  
Univ of Washington  
Box 357242  
Microbiology Department  
Seattle, WA 98195-7242  
Tel: (206) 616-8588  
Fax: (206) 543-8297  
nester@u.washington.edu
- Nino-Liu, David O.**  
Iowa State Univ  
Plant Pathology Dept  
351 Bessey Hall  
Ames, IA 50011-1020  
Tel: (515) 460-3646  
don100@iastate.edu
- Nissinen, Riitta M.**  
Helsinki Univ  
Dept of Applied Biology  
PL 27 - Lab of Plant Pathology  
Helsinki, 00014  
FINLAND  
Tel: 358 9 191 58373  
Fax: 358 9 191 58727  
riitta.nissinen@helsinki.fi
- Noel, K. Dale**  
Marquette Univ  
Biology Dept  
PO Box 1881  
Milwaukee, WI 53201-1881  
Tel: (414) 288-1475  
Fax: (414) 288-7357  
dale.noel@marquette.edu
- Norelli, John L.**  
USDA ARS  
Appalachian Fruit Research Station  
2217 Wiltshire Road  
Kearneysville, WV 25430  
Tel: (304) 725-3451x264  
Fax: (304) 728-2340  
jnorelli@afrr.ars.usda.gov
- Norris, Joanna H.**  
Univ of Rhode Island  
Biological Sciences Dept  
Ranger Hall  
Kingston, RI 02881  
Tel: (401) 874-2623  
Fax: (401) 874-5974  
jnorris@uri.edu
- Nuernberger, Thorsten P.**  
Eberhard-Karls Univ Tuebingen  
Molecular Biology of Plants (ZMBP)  
Auf Der Morgenstelle 5  
Tuebingen, 72076  
GERMANY  
Tel: 49 7071 297 6658  
Fax: 49 7071 295 226  
thorsten.nuernberger@zmbp.uni-tuebingen.de
- Nurmburg, Pedro Luiz**  
Inst of Molecular Plant Science  
the King's Bldg - Mayfield Road  
Edinburgh, EH9 3JR  
UNITED KINGDOM  
Tel: 44 131 6505 385  
Fax: 44 131 650 5392  
p.l.nurmberg@sms.ed.ac.uk
- Nuss, Donald L.**  
Univ of Maryland  
Biotechnology Inst Ctr for Biosystems Res  
5115 Plant Sciences Building  
College Park, MD 20742-4450  
Tel: (301) 405-0334  
Fax: (301) 314-9075  
nuss@umbi.umd.edu
- O'Connell, Richard J.**  
Max Planck Inst for Plant Breeding Res  
Plant Microbe Interactions Dept  
Carl Von Linne Weg 10  
Koeln, 50829  
GERMANY  
Tel: 49 221 5062 311  
Fax: 49 221 5062 353  
oconnell@mpiz-koeln.mpg.de
- O'Donnell, Kerry L.**  
USDA ARS MWA NCAUR  
1815 N University St  
Peoria, IL 61604-3902  
Tel: (309) 681-6383  
Fax: (309) 681-6672  
kodonnell@mail.ncaur.usda.gov
- Oh, Chang-sik**  
Cornell Univ  
Plant Pathology Dept  
334 Plant Science Building  
Ithaca, NY 14853-4203  
Tel: (607) 255-2025  
Fax: (607) 255-4471  
co35@cornell.edu
- Ohashi, Yuko**  
Nat'l Inst of Agrobiological Sciences  
Molecular Genetics Dept  
Kannondai 2-1-2  
Tsukuba,Ibaraki, 305-8602  
JAPAN  
Tel: 81 29 838 7440  
Fax: 81 29 838 7469  
yohahsi@affrc.go.jp
- Ohnishi, Kouhei**  
Kochi Univ  
Research Inst of Molecular Genetics  
200 Monobe  
Nankoku, Kochi, 783-8502  
JAPAN  
Tel: 81 88 864 5213  
Fax: 81 88 864 5109  
kouheio@rimg.kochi-u.ac.jp
- Ohno, Ryoko**  
Tokyo Univ of Science  
Applied Biological Science Dept  
2641 Yamazaki  
Noda, Chiba, 278-8510  
JAPAN  
Tel: 81 4 7124 1501x3414  
Fax: 81 4 7123 9767  
ohnor@rs.noda.tus.ac.jp
- Oke, C. Valerie**  
Univ of Pittsburgh  
Biological Sciences Dept  
A527 Langley Hall  
Pittsburgh, PA 15260  
Tel: (412) 624-4635  
Fax: (412) 624-4759  
voke@pitt.edu
- Okon, Yaacov**  
Hebrew Univ of Jerusalem  
Plant Pathology and Microbiology Dept  
PO Box 12 - Fac of Agric - FEQS  
Rehovot, 76100  
ISRAEL  
Tel: 972 8 948 9216  
Fax: 972 8 946 6794  
okon@agri.huji.ac.il
- Okubara, Patricia A.**  
Washington State Univ  
USDA ARS  
367A Johnson Hall  
Pullman, WA 99164-6430  
Tel: (509) 335-7824  
Fax: (509) 335-7674  
pokubara@wsu.edu
- Oldroyd, Giles E. D.**  
John Innes Center  
Norwich Research Park  
Norwich, NR4 7UH  
UNITED KINGDOM  
Tel: 44 1603 450 206  
Fax: 44 1603 450 045  
giles.oldroyd@bbsrc.ac.uk
- Oliver, Richard P.**  
Murdoch Univ  
Australian Centre for  
Necrotrophic Fungal Pathogens  
Perth, WA 6150  
AUSTRALIA  
Tel: 61 8 9360 7404  
Fax: 61 8 9360 6303  
roliver@central.murdoch.edu.au
- Ortiz-Vazquez, Elizabeth**  
Inst Technologica De Merida  
Division of Estudios De Posgrad  
Av Tecnologica S/N  
Merida, Yucatan, 97118  
MEXICO  
Tel: 52 999 944 8479  
Fax: 52 999 944 8479  
eortiz@itmerida.mx
- Osaki, Mitsura**  
Hokkaido Univ  
Graduate School of Agriculture  
Kita 9, Nishi9, Kitaku  
Sapporo, Hokkaido, 060-8589  
JAPAN  
Tel: 81 11 706 4170  
Fax: 81 11 706 4170  
mosaki@chem.agr.hokudai.ac.jp
- Osbourn, Anne**  
John Innes Centre  
Plant Virus Res/Sainsbury Lab  
Colney Lane  
Norwich, NR4 6UH  
UNITED KINGDOM  
Tel: 44 1603 452 571  
Fax: 44 1603 250 024  
annie.osbourn@bbsrc.ac.uk
- Osburn, Robert M.**  
Nitragin Inc  
3101 W Custer Ave  
Milwaukee, WI 53209  
Tel: (414) 462-7600  
Fax: (414) 462-7186  
rmo@nitragin.com
- Ott, Thomas**  
Max Planck Inst of Plant Molecular  
Biology  
Molecular Plant Nutrition Group  
Am Muehlenberg 1  
Potsdam, DE-14471  
GERMANY  
Tel: 49 331 567 8151  
Fax: 49 331 567 8150  
ott@mpimp-golm.mpg.de
- Palukaitis, Peter F.**  
Scottish Crop Research Inst  
Virology Unit  
Errol Road  
Invergowrie, Dundee, DD2 5DA  
UNITED KINGDOM  
Tel: 44 1382 568 523  
Fax: 44 1382 568 575  
ppaluk@scri.sari.ac.uk
- Palva, Tapani E.**  
Univ of Helsinki  
Genetics Div - Biosciences Dept  
PO Box 56  
Helsinki, 00014  
FINLAND  
Tel: 358 9 1915 9600  
Fax: 358 9 1915 9076  
tpalva@mappi.helsinki.fi
- Parniske, Martin**  
Univ of Munich  
Biology I, Genetics Dept  
Maria-Ward-Str. 1a  
Munchen, D-80638  
GERMANY  
Tel: 44 89 2180 6150  
martin.parniske@lrz.uni-muenchen.de

**Parra-Colmenares, Adriana L.**

Apartment 125  
2045 W El Camino Real  
Mountain View, CA 94040  
Tel: (650) 723-3122  
Fax: (650) 725-8309  
adrianap@stanford.edu

**Paszkowski, Uta**

Univ of Geneva  
Lab De Genetique Vegetale Sciences III  
30, Quai Ernest-Ansermet  
Geneve 4, CH-1211  
SWITZERLAND  
Tel: 41 61 22 379 3022  
Fax: 41 61 22 379 3107  
uta.paszkowski@bioeg.unige.ch

**Patel, Nrupali**

North Carolina State Univ  
Plant Pathology Dept  
840 Method Road - Unit 4  
Raleigh, NC 27507  
Tel: (919) 515-6693  
Fax: (919) 515-1279  
npatel@unity.ncsu.edu

**Patil, Suresh S.**

2524 Brenton Point Dr  
Reston, VA 20191  
Tel: (703) 391-1705  
spatil@comcast.net

**Patriarca, Eduardo J.**

Inst of Genetics & Biophysics  
National Research Council  
Via G Marconi 10  
Naples, 80125  
ITALY  
Tel: 39 81 725 7257  
Fax: 39 81 725 7202  
patriarc@ibg.cnr.it

**Pedley, Kerry F.**

Boyce Thompson Inst for Plant Research  
Tower Road  
Ithaca, NY 14853  
Tel: (607) 254-1386  
Fax: (607) 255-6695  
kfp5@cornell.edu

**Pedras, M. Soledad C.**

Univ of Saskatchewan  
Chemistry Dept  
110 Science Place  
Saskatoon, SK S7N 5C9  
CANADA  
Tel: (306) 966-4772  
Fax: (306) 966-4730  
pedras@sask.usask.ca

**Perez-Galdona, Ricardo M.**

Univ de La Laguna  
Facultad de Farmacia  
Microbiologia Y Biol Celular  
La Laguna, Tenerife, 38071  
SPAIN  
Tel: 34 922 318 512  
Fax: 34 922 318 477  
rperezga@ull.es

**Perotto, Silvia**

Univ of Torino  
Dept Di Biologia Vegetale  
Viale Mattioli 25  
Torino, 10125  
ITALY  
Tel: 39 11 670 5987  
Fax: 39 11 670 5962  
silvia.perotto@unito.it

**Petersen, Lindsay N.**

Univ of Cape Town  
Molecular and Cell Biology Dept  
Univ Ave - Upper Campus  
Cape Town, 7701  
REP OF SOUTH AFRICA  
Tel: 27 21 650 4006  
Fax: 27 21 689 7573  
petersen@science.uct.ac.za

**Piercey-Normore, Michele D.**

Univ of Manitoba  
Botany Dept  
525 Buller Building  
Winnipeg, MB R3T 2N2  
CANADA  
Tel: (204) 474-9610  
Fax: (204) 474-7604  
pierceyn@cc.umanitoba.ca

**Pieterse, Corne M. J.**

Utrecht Univ  
Section Plant Pathology  
PO Box 800 84 - Faculty of Biology  
Utrecht, 3508 TB  
NETHERLANDS  
Tel: 31 30 253 6887  
Fax: 31 30 251 8366  
c.m.j.pieterse@bio.uu.nl

**Pirhonen, Minna**

Univ of Helsinki  
Dept of Applied Biology  
PO Box 27 - Plant Pathology Lab  
Helsinki, 00014  
FINLAND  
Tel: 358 9 1915 9621  
Fax: 358 9 1915 8727  
minna.pirhonen@helsinki.fi

**Polverari, Annalisa**

Univ Degli Studi Di Verona  
Scientifico E Tecnologico Dept  
Ca Vignal, Strada Le Grazie 15  
Verona, 37134  
ITALY  
Tel: 39 45 802 7064  
Fax: 39 45 802 7929  
annalisa.polverari@univr.it

**Ponciano, Grisel P.**

San Francisco State Univ  
Biology Dept  
1600 Holloway Ave  
San Francisco, CA 94132  
Tel: (415) 338-7099  
Fax: (415) 338-2938  
griselp@sfsu.edu

**Poole, Philip S.**

Univ of Reading  
PO Box 228 - Div of Microbiology  
School of AMS - Whiteknights  
Reading, RG6 2AJ  
UNITED KINGDOM  
Tel: 44 118 931 8895  
Fax: 44 118 931 6671  
p.s.poole@reading.ac.uk

**Posada-Buitrago, Martha L.**

Joint Genome Inst  
Lawrence Berkeley Natl Lab  
2800 Mitchell Dr - Evolutionary  
Genomics  
Walnut Creek, CA 94598  
Tel: (925) 296-5745  
Fax: (925) 296-5620  
mlposada-buitrago@lbl.gov

**Powell, Ann L.**

Univ of California  
Mann Labs  
Davis, CA 95616  
Tel: (530) 752-9096  
Fax: (530) 752-4554  
alpowell@ucdavis.edu

**Prasad, Gyaneshwar**

Univ of California  
Plant and Microbial Biology Dept  
111 Koshland Hall  
Berkeley, CA 94720  
Tel: (510) 643-9307  
gyani@nature.berkeley.edu

**Preston, Gail M.**

Univ of Oxford  
Plant Sciences Dept  
South Parks Road  
Oxford, OX1 3RB  
UNITED KINGDOM  
Tel: 44 1865 275 106  
Fax: 44 1865 275 074  
gail.preston@plant-sciences.ox.ac.uk

**Prinsen, Els L.**

Univ of Antwerp  
Biology Dept  
Universiteitsplein 1  
Antwerp (Wilrijk), 2610  
BELGIUM  
Tel: 32 3 820 2266  
Fax: 32 3 820 2271  
els.prinsen@ua.ac.be

**Prithiviraj, Balakrishnan**

Colorado State Univ  
Horticulture Dept  
306 Shepardson Bldg  
Fort Collins, CO 80523  
Tel: (970) 491-4266  
Fax: (970) 491-7745  
prithivi@laramar.colostate.edu

**Puhler, Alfred**

Univ Bielefeld  
PO Box 100131 - Genetics Dept  
Fakultaet fuer Biologie  
Bielefeld, 33501  
GERMANY  
Tel: 49 521 106 5607  
Fax: 49 521 106 5626  
puehler@genetik.uni-bielefeld.de

**Puthoff, David P.**

USDA ARS MPPL  
BARC-West, B004, Room121  
10300 Baltimore Ave  
Beltsville, MD 20705  
Tel: (301) 504-5267  
Fax: (301) 504-5449  
puthoffd@ba.ars.usda.gov

**Q****Quinto, Carmen**

UNAM  
Institute of Biotech-Biomolec  
Apdo Postal 510-3  
Cuernavaca MOR, 62270  
MEXICO  
Tel: 52 915 622 7642  
Fax: 52 917 313 6600  
quinto@ibt.unam.mx

**Qutob, Dinah S.**

Agriculture and Agri Food Canada  
SCPFRC  
1391 Sandford Street  
London, ON N5V 4T3  
CANADA  
Tel: (519) 457- 1470x684  
Fax: (519) 457-3997  
qutobd@agr.gc.ca

**R****Ramonell, Katrina M.**

Univ of Alabama  
Biological Sciences Dept  
Box 870344, Room 301, Biology Bldg  
Tuscaloosa, AL 35473  
Tel: (205) 348-9512  
Fax: (205) 348-1786  
kramonel@bama.ua.edu

**Rasmussen, Jack B.**

North Dakota State Univ  
Plant Pathology Dept  
Walster Hall - PO Box 5012  
Fargo, ND 58105  
Tel: (701) 231-1027  
Fax: (701) 231-7851  
jack\_rasmussen@ndsu.nodak.edu

**Ravnikar, Maja**

Natl Inst of Biology  
Vecna pot 111  
POB 141  
Ljubljana, 1001  
SLOVENIA  
Tel: 386 14 233 388  
Fax: 386 14 235 038  
maja.ravnkar@nib.si

**Reinhardt, Didier**

Univ of Fribourg  
Biology Dept  
3, Rue Albert-Gockel  
Fribourg, 1700  
SWITZERLAND  
Tel: 41 26 300 8818  
Fax: 41 26 300 9740  
didier.reinhardt@unifrib.ch

**Ribeiro, Ana I. F.**

Inst Invest Cientifica Tropical  
Quinta Do Marques (E.A.N.)  
Centro De Invest Ferrugens Do  
Cafeeiro  
Oeiras, 2784-505  
PORTUGAL  
Tel: 351 91 406 4764  
Fax: 351 21 442 3023  
ariebeiro32@hotmail.com

**Rickauer, Martina A.**

ENSAT - BAP  
18 Chemin De Borderouge  
BP 107 Auzerville - Biotech Vegetale  
Castanet - Tolosan, 31326  
FRANCE  
Tel: 33 562 193 587  
Fax: 33 562 193 589  
martina.rickauer@ensat.fr

**Rivilla, Rafael**

Univ Autonoma de Madrid  
Biology Dept  
Facultad de Ciencia  
Madrid, 28049  
SPAIN  
Tel: 34 1 397 8177  
Fax: 34 1 397 8344  
rafael.rivilla@uam.es

- Roden, Julie A.**  
Stanford Univ  
371 Serra Mall  
Stanford, CA 94305  
Tel: (650) 723-3500  
Fax: (650) 723-6132  
jroden@stanford.edu
- Rodriguez-Palenzuela, Pablo**  
ETSI A UPM  
Biotechnology Dept  
Av. Compitense S/N  
Madrid, 28040  
SPAIN  
Tel: 34 91 336 5705  
Fax: 34 91 336 5753  
pablo.rpalenzuela@upm.es
- Roine, Elina S.**  
Univ of Helsinki  
Biological and Environmental Sciences  
PO Box 56  
Helsinki, FIN-00014  
FINLAND  
Tel: 358 9 1915 8545  
Fax: 358 9 1915 8727  
elina.roine@helsinki.fi
- Rolfe, Barry G.**  
Australian Natl Univ  
PMI Group RSBS  
GPO Box 475  
Canberra, ACT 2601  
AUSTRALIA  
Tel: 61 6 6494054  
Fax: 61 6 2490754  
rolfe@rsbs-central.anu.edu.au
- Rollins, Jeffrey A.**  
Univ of Florida  
PO Box 110680 - Plant Path Dept  
1453 Fifield Hall  
Gainesville, FL 32611-0680  
Tel: (352) 392-3631x235  
Fax: (352) 392-6532  
jarollins@ifas.ufl.edu
- Romantschuk, Martin**  
Univ of Helsinki  
Ecological and Environmental Science  
Niemenskatu 73  
Lahti, 15140  
FINLAND  
Tel: 358 3 892 20334  
Fax: 358 3 892 20331  
martin.romantschuk@helsinki.fi
- Ronald, Pamela C.**  
Univ of California  
1 Shields Ave - Plant Pathology Dept  
348 Hutchinson Hall  
Davis, CA 95616  
Tel: (530) 752-1557  
Fax: (530) 752-5674  
pconrad@ucdavis.edu
- Ronson, Clive W.**  
Univ of Otago  
Microbiology Dept  
PO Box 56  
Dunedin, 9000  
NEW ZEALAND  
Tel: 64 3 479 7701  
Fax: 64 3 479 8540  
clive.ronson@stonebow.otago.ac.nz
- Rose, Jocelyn K.**  
Cornell Univ  
Plant Biology Dept  
347 Emerson Hall  
Ithaca, NY 14853-4203  
Tel: (607) 255-4781  
Fax: (607) 255-5407  
jr286@cornell.edu
- Rose, Ray J.**  
Univ of Newcastle  
Biological Sciences  
School of Env and Life Sciences  
Newcastle, NSW 2308  
AUSTRALIA  
Tel: 61 2 4921 5711  
Fax: 61 2 4921 6943  
ray.rose@newcastle.edu.au
- Rosenblueth, Monica**  
Univ Nacional Autonoma De Mexico  
Apdo Postal 565-A  
Cuernavaca, Morelos, 62251  
MEXICO  
Tel: 52 777 313 1697  
Fax: 52 777 317 5581  
mrosen@ccg.unam.mx
- Rosewarne, Garry M.**  
CIMMYT  
Intensive Agro Ecosystems  
PO Box 60326 - Apartado 370  
Houston, TX 77205  
Tel: (650) 833-6655  
Fax: 52 55 5804 7558  
g.rosewarne@cgiar.org
- S**
- Saarihahti, Hannu T.**  
Univ of Helsinki  
Bicenter 2 - Genetics Division  
PO Box 56  
Helsinki, 00014  
FINLAND  
Tel: 358 9 708 59107  
Fax: 358 9 708 59079  
hannu.saarilahti@helsinki.fi
- San Francisco, Michael J.**  
Texas Tech Univ  
Biological Sciences Dept  
Flint and Main  
Lubbock, TX 79409  
Tel: (806) 742-2706  
Fax: (806) 742-2963  
michael.sanfrancisco@ttu.edu
- Sanchez, Federico**  
Univ of Mexico  
Plant Molecular Biology Dept  
A.V. Univ 2001, Champila  
Cuernavaca, Morelos, 62210  
MEXICO  
Tel: 52 777 329 1653  
Fax: 52 777 3313 6600  
federico@ibt.unam.mx
- Sano, Teruo**  
Hirosaki Univ  
Bunkyo-Chou 3  
Faculty of Agric and Life Sciences  
Hirosaki, 036-8561  
JAPAN  
Tel: 81 172 39 3817  
Fax: 81 172 39 3817  
sano@cc.hirosaki-u.ac.jp
- Sarkar, Sara F.**  
Univ of Toronto  
Botany Dept  
25 Willcocks Street  
Toronto, ON M5S 3B2  
CANADA  
Tel: (416) 946-7121  
Fax: (416) 978-5878  
ssarkar@botany.utoronto.ca
- Sarkar, Abhijit**  
Univ of Bremen  
Allgemeine Mikrobiologie  
Muedener Strasse 9  
Bremen, 28329  
GERMANY  
Tel: 49 421 218 2966  
Fax: 49 421 218 9058  
sarkar\_abhijit@hotmail.com
- Sassi, Giovanna**  
Cornell Univ  
Plant Pathology Dept  
236 Plant Science Building  
Ithaca, NY 14850  
Tel: (607) 273-6021  
Fax: (607) 255-4471  
gs242@cornell.edu
- Sautter, Christof**  
Inst of Plant Science  
ETH-Zurich  
Universitatsstrasse 2  
Zurich, 8092  
SWITZERLAND  
Tel: 41 1 632 5713  
Fax: 41 1 632 1044  
christof.sautter@ipw.biol.ethz.ch
- Saville, Barry J.**  
Univ of Toronto  
Erindale Campus - Botany Dept  
3359 Mississauga Road N  
Mississauga, ON L5L 1C6  
CANADA  
Tel: (905) 569-4702  
Fax: (905) 828-3792  
bsaville@utm.utoronto.ca
- Savka, Michael A.**  
Rochester Inst of Technology  
Biological Sciences Dept  
85 Lomb Memorial Dr - A350 Gosnell  
Rochester, NY 14623  
Tel: (585) 475-5141  
Fax: (585) 475-5760  
massbi@rit.edu
- Schardl, Christopher L.**  
Univ of Kentucky  
Plant Pathology Dept  
201F Plant Science Bldg  
Lexington, KY 40546-0312  
Tel: (859) 257-7445x80730  
Fax: (859) 323-1961  
schardl@uky.edu
- Schechter, Lisa M.**  
Cornell Univ  
Plant Pathology Dept  
334 Plant Science Bldg  
Ithaca, NY 14853  
Tel: (607) 254-7297  
Fax: (607) 255-4471  
ls239@cornell.edu
- Scheel, Dierk**  
Inst of Plant Biochemistry  
Stress and Development Biology Dept  
Weinberg 3  
Halle (Salle), 06120  
GERMANY  
Tel: 49 345 5582 1400  
Fax: 49 345 5582 1409  
dscheel@ipb-halle.de
- Sergeeva, Elena**  
Okanagan Univ College  
Biology Dept  
3333 University Way  
Kelowna, BC V1V 1V7  
CANADA  
Tel: (250) 762-5445 x7860  
Fax: (250) 979-6434  
esergeeva@ouc.bc.ca
- Scherrer, Beatrice**  
Univ of Zurich  
Inst for Plant Biology  
Zollikerstrasse 107  
Zurich, 8008  
SWITZERLAND  
Tel: 41 1 634 8231  
Fax: 41 1 634 8204  
bea.scherrer@botinst.unizh.ch
- Schulze-Lefert, Paul**  
Max Planck Inst Zuchungsforschung  
Plant Microbe Interactions Dept  
Carl Von Linne Weg 10  
Cologne, DE-50829  
GERMANY  
Tel: 49 221 5062 350  
Fax: 49 221 5062 353  
schlef@mpiz-koeln.mpg.de
- Schweizer, Patrick**  
Inst of Plant Genetics and Crop Plant Res  
Genome Center  
Corrensstrasse 3  
Gatersleben, DE-06466  
GERMANY  
Tel: 49 39 482 5660  
Fax: 49 39 482 5595  
schweiz@ipk-gatersleben.de
- Scott, Barry**  
Massey Univ  
Inst of Molecular BioSciences  
Private Bag 11-222  
Palmerston North,  
NEW ZEALAND  
Tel: 64 6 350 4033  
Fax: 64 6 350 5688  
d.b.scott@massey.ac.nz
- Scott, Paul T.**  
Univ of Queensland  
ARC Ctr for Integrative Legume  
Research  
John Hines Building  
St Lucia, QLD 4072  
AUSTRALIA  
p.scott@uq.edu.au
- Seipke, Ryan F.**  
Cornell Univ  
Plant Pathology Dept  
334 Plant Science Building  
Ithaca, NY 14853  
Tel: (607) 255-9770  
Fax: (607) 255-4471  
rfs27@cornell.edu
- Sela, Marianne**  
De Ruiter Zonen Seeds  
Research Dept  
Leeuwenhoekweg 52  
Bergschenhoek, 2661 CZ  
NETHERLANDS  
Tel: 31 10 529 2222  
Fax: 31 10 520 2410  
carla.schoonus@deruiterseeds.com

- Sessa, Guido**  
Tel Aviv Univ  
Plant Sciences Dept  
Ramat Aviv  
Tel Aviv, 69978  
ISRAEL  
Tel: 972 3 640 9766  
Fax: 972 3 640 9380  
guidos@post.tau.ac.il
- Shah, Jyoti**  
Kansas State Univ  
Biology Dept  
303 Ackert Hall  
Manhattan, KS 66506  
Tel: (785) 532-6360  
Fax: (785) 532-6653  
shah@ksu.edu
- Shapiro, Allan D.**  
Florida Gulf Coast Univ  
10501 FGCU Blvd South  
Fort Myers, FL 33965  
Tel: (239) 590-7244  
Fax: (239) 590-7120  
ashapiro@fgcu.edu
- Sheen, Jen**  
Massachusetts General Hospital  
Molecular Biology Dept  
50 Blossom Street - Wellman 9  
Boston, MA 01913  
Tel: (617) 726-5978  
Fax: (617) 726-6893  
sheen@molbio.mgh.harvard.edu
- Sherrier, D. Janine**  
Univ of Delaware  
Delaware Biotechnology Inst  
15 Innovation Way - Room 129  
Newark, DE 19711  
Tel: (302) 831-3550  
Fax: (302) 831-0605  
sherrier@udel.edu
- Sherwood, John E.**  
Montana State Univ  
Plant Sciences and Plant Path Dept  
Bozeman, MT 59717-3150  
Tel: (406) 994-5153  
Fax: (406) 994-7600  
sherwood@montana.edu
- Shibuya, Naoto**  
Meiji Univ  
Life Sciences Dept  
1-1 Higashi-Mita, Tama-ku  
Kawasaki, Kanagawa, 214-8571  
JAPAN  
Tel: 81 44 934 7039  
Fax: 81 44 934 7039  
shibuya@isc.meiji.ac.jp
- Shimamoto, Ko**  
Nara Inst of Sci & Tech  
8916-5, Takayama  
Ikoma, Nara, 630-0101  
JAPAN  
Tel: 81 743 72 5501  
Fax: 81 743 72 5502  
simamoto@bs.aist-nara.ac.jp
- Shimizu, Bun-ichi**  
Kyoto Univ  
Inst for Chemical Research  
Gokasho  
Uji, 611 0111  
JAPAN  
Tel: 81 774 38 3232  
Fax: 81 774 38 3229  
bun@biofun.kuicr.kyoto-u.ac.jp
- Shimizu, Rena**  
Cornell Univ  
Plant Pathology Dept  
334 Plant Science Building  
Ithaca, NY 14850  
Tel: (607) 254-7297  
Fax: (607) 255-4471  
rs334@cornell.edu
- Shores, Michal**  
Weizmann Inst of Science  
Biological Chemistry Dept  
Hertzel  
Rehovot, IL-76100  
ISRAEL  
Tel: 972 8 934 4466  
Fax: 972 8 934 4112  
michal.shoresh@weizmann.ac.il
- Simmonds, Jeanette E.**  
Rensselaer Polytechnic Inst  
Science and Technology Studies  
110 Eighth Street, Sage Bldg 5508  
Troy, NY 12180  
Tel: (518) 271-6084  
Fax: (518) 276-2659  
simmjo@rpi.edu
- Simon, Stacy A.**  
VPI & State Univ  
Plant Path, Physiology and Weed Science  
216 Fralin Biotech Ctr - West Campus Dr  
Blacksburg, VA 24061  
Tel: (540) 231-2905  
Fax: (540) 231-7126  
stsimon@vt.edu
- Singh, Karam B.**  
CSIRO Plant Industry  
Private Bag #5  
Wembley, WA, 6913  
AUSTRALIA  
Tel: 61 8 9333 6320  
Fax: 61 8 9387 8991  
karam.singh@csiro.au
- Slaymaker, David H.**  
William Paterson Univ  
Biology Dept  
300 Pompton Road  
Wayne, NJ 07470  
Tel: (973) 720-2439  
Fax: (973) 720-2338  
slaymakerd@wpunj.edu
- Slusarenko, Alan J.**  
Inst für Biologie III  
Pflanzenenphysiologie  
RWTH - Worringerweg 1  
Aachen, 52074  
GERMANY  
Tel: 49 241 802 6650  
Fax: 49 241 802 2395  
slusarenko@bio3.rwth-aachen.de
- Smart, Christine D.**  
Cornell Univ  
Plant Pathology Dept  
NYSAES - 630 North St  
Geneva, NY 14456  
Tel: (315) 787-2441  
Fax: (315) 787-2389  
cds14@cornell.edu
- Smith, Sarah E.**  
Univ of Adelaide  
Waite Campus, Soil and Land Systems  
Earth and Env Sciences - Fac of Sciences  
Glen Osmond, SA 5064  
AUSTRALIA  
Tel: 61 8 8303 6704  
Fax: 61 8 8303 6511  
sally.smith@adelaide.edu.au
- Smith, R. Stewart**  
Nitragin Inc  
3101 W Custer Ave  
Milwaukee, WI 53209-4827  
Tel: (414) 462-7600  
Fax: (414) 462-7186  
rss@nitragin.com
- Sneh, Baruch**  
Tel Aviv Univ  
Plant Sciences Dept  
Ramat Aviv  
Tel Aviv, 69978  
ISRAEL  
Tel: 972 3 640 9842  
Fax: 972 3 640 9380  
baruch@tauex.tau.ac.il
- Somerville, Shauna C.**  
Carnegie Institute  
Plant Biology Dept  
260 Panama St  
Stanford, CA 94305-4101  
Tel: (650) 325-1521x257  
Fax: (650) 325-6857  
ssomerville@stanford.edu
- Song, Wei**  
Capital Normal Univ  
College of Life Sciences  
105 Xi San Huan Bei Lu  
Beijing, 100037  
PEOPLES REP OF CHINA  
Tel: 86 10 6898 0095  
Fax: 86 10 6898 1191  
songwei@mail.cnu.edu.cn
- Song, Pill-Soo**  
Kumho Petrochemical Co Ltd  
572 Sang-Am-Dong  
Kumho Life and Env Science Lab  
Kwangju, 506-712  
SOUTH KOREA  
Tel: 82 62 970 2630  
Fax: 82 62 972 5085  
pssong@ksc.kumho.co.kr
- Song, Wen-Yuan**  
Univ of Florida  
Plant Pathology Dept  
1453 Fifield Hall  
Gainesville, FL 32611  
Tel: (352) 392-7231  
Fax: (352) 392-6532  
wsong@ifas.ufl.edu
- Sonti, Ramesh V.**  
Centre Cellular & Molecular Biol  
Uppal Road  
Hyderabad AP, 500 007  
INDIA  
Tel: 91 40 2719 2577  
Fax: 91 40 2716 0591  
sonti@ccmb.res.in
- Spadaro, Davide**  
Univ of Turin  
Agroinnova Dept  
Via L. Da Vinci 44  
Grugliasco TO, 10095  
ITALY  
Tel: 39 11 670 8942  
Fax: 39 11 670 9307  
davide.spadaro@unito.it
- Spaink, Herman P.**  
Leiden Univ  
Postbus 9606  
Leiden, 2300 AB  
NETHERLANDS  
Tel: 31 7 1527 5055  
Fax: 31 7 1527 5088  
spaink@rulbim.leidenuniv.nl
- Spanu, Pietro D.**  
Imperial College of Sci Tech & Medicine  
Biological Sciences Dept  
Imperial College Road  
London, SW7 2AZ  
UNITED KINGDOM  
Tel: 44 2075 945 384  
Fax: 44 2075 842 056  
p.spanu@ic.ac.uk
- Stacey, Gary**  
Univ of Missouri  
Plant Microbiology and Pathology Dept  
108 Waters Hall  
Columbia, MO 65211-6130  
Tel: (573) 884-4752  
Fax: (573) 882-0588  
staceg@missouri.edu
- Stahl, Dietmar J.**  
Planta GmbH  
Grimmehlstr Strasse 31  
Pf 1463  
Einbeck, D-37555  
GERMANY  
Tel: 49 556 131 1735  
Fax: 49 556 131 1243  
d.stahl@kws.de
- Staneloni, Roberto**  
Fundacion Inst Leloir  
Fundacion Campomar  
Av Patricias Argentinas 435  
Buenos Aires, 1405  
ARGENTINA  
Tel: 54 11 4863 4011  
Fax: 54 11 4865 2246  
rstaneloni@leloir.org.ar
- Stavrinides, John**  
Univ of Toronto  
Botany Dept  
25 Willcocks Street  
Toronto, ON M5S 3B2  
CANADA  
Tel: (416) 946-7121  
Fax: (416) 978-5878  
johnstav@botany.utoronto.ca
- Stougaard, Jens**  
Univ of Aarhus  
Molecular and Structural Biology  
Gustav Wieds Vej 10  
Aarhus, 8000 C  
DENMARK  
Tel: 45 8 942 5011  
Fax: 45 8 620 1222  
stougaard@mb.au.dk
- Strange, Richard N.**  
Univ College London  
Biology Dept  
Gower Street  
London, WC1E 6BT  
UNITED KINGDOM  
Tel: 44 171 380 7777  
Fax: 44 171 380 7096  
r.strange@ucl.ac.uk
- Suarez-Rodriguez, Ramon**  
CEIB-UAEIM  
Biotecnologia Ambiental  
Av Univ No 1001 Col Chamilpa  
Cuernavaca, Mor, 62210  
MEXICO  
Tel: 52 777 329 7057  
Fax: 52 777 329 7030  
rsuarez@buzon.uaem.mx

**Subramanian, Senthil**  
Donald Danforth Plant Science Ctr  
Yu Lab  
975 North Warson Road  
St Louis, MO 63132  
Tel: (314) 587-1449  
Fax: (314) 587-1549  
ssubramanian@danforthcenter.org

**Suganuma, Norio**  
Aichi Univ of Education  
Dept of Life Science  
Kariya, Aichi, 448-8542  
JAPAN  
Tel: 81 566 26 2647  
Fax: 81 566 26 2310  
nsuganum@uecc.aichi-edu.ac.jp

**Sun, Jongho**  
John Innes Centre  
Disease and Stress Biology  
Norwich Research Park - Colney Lane  
Norwich, NR4 7UH  
UNITED KINGDOM  
Tel: 44 1603 450 000  
sun@bbsrc.ac.uk

**Sweigard, Jim**  
DuPont Experiment Station  
PO Box 80402  
Willmington, DE 19880-0402  
Tel: (302) 695-2254  
Fax: (302) 695-4509  
jim.sweigard@cgr.dupont.com

**Swords, Kathy M. M.**  
J. R. Simplot Co  
Plant Sciences Dept  
5369 W Irving Street  
Boise, ID 83706  
Tel: (208) 327-3311  
kathy.swords@simplot.com

**Syono, Kunihiko**  
Japan Women's Univ  
2-8-1, Mejirodai  
Bunkyo-ku  
Tokyo, 112-8681  
JAPAN  
Tel: 81 3 5981 3669  
Fax: 81 3 5981 3658  
syono@fc.jwu.ac.jp

**T**  
**Tamada, Tetsuo**  
Okayama Univ  
Res Inst for Bioresources  
Kurashiki, 710-0046  
JAPAN  
Tel: 81 86 434 1229  
Fax: 81 86 434 1249  
ttamada@rib.okayama-u.ac.jp

**Tang, Dingzhong**  
Indiana Univ  
Biology Dept - Myers Hall 150  
915 E Third Street  
Bloomington, IN 47405  
Tel: (812) 855-2852  
Fax: (812) 855-6082  
dztang@bio.indiana.edu

**Terefework, Z.**  
Univ of Helsinki  
Applied Chem and Micro Dept  
PO Box 56 - Biocenter 1  
Helsinki, 00014  
FINLAND

**Teubig, Pamela**  
Michigan State Univ  
Plant Pathology Dept  
103 CIPS  
East Lansing, MI 48824  
Tel: (517) 353-3272  
Fax: (517) 353-5598  
teubigp@msu.edu

**Thines, Eckhard**  
Univ Kaiserslautern  
Paul Ehrlich Strasse 23  
Kaiserslautern, 67663  
GERMANY  
Tel: 49 631 205 4294  
Fax: 49 631 205 2999  
thines@ibwf.uni-fl.de

**Thomashow, Linda S.**  
Washington State Univ  
Plant Pathology Dept  
USDA ARS  
Pullman, WA 99164-6430  
Tel: (509) 335-0930  
Fax: (509) 335-7674  
thomasho@mail.wsu.edu

**Tiffany, Michael G.**  
Agdia Inc  
30380 County Road 6  
Elkhart, IN 46514-9514  
Tel: (219) 264-2014  
Fax: (219) 264-2153  
miket@agdia.com

**Tiraboschi Ferro, Maria Ines**  
State Univ of Sao Paulo  
Technology Dept  
UNESP Campus  
Jaboticabal, 14870-000  
BRAZIL  
Tel: 55 16 3209 2642  
Fax: 55 16 3209 2675  
mitferro@fcav.unesp.br

**Torrance, Lesley**  
Scottish Crop Research Inst  
Plant-Pathogen Interactions Programme  
Invergowrie  
Dundee, DD2 5DA  
UNITED KINGDOM  
Tel: 44 1382 562 731  
Fax: 44 1382 562 426  
ltorra@scri.sari.ac.uk

**Torres, Michael A.**  
Warren Wilson College  
Biology Dept  
PO Box 900 - CPO 6172  
Asheville, NC 28815  
Tel: (828) 771-5816  
mtorres@warren-wilson.edu

**Tosa, Yukio**  
Kobe Univ  
Faculty of Agriculture  
Rokko-dai 1-1  
Kobe, Hyogo, 657-8501  
JAPAN  
Tel: 81 78 803 6540  
Fax: 81 78 803 6540  
tosayuki@kobe-u.ac.jp

**Toth, Ian K.**  
Scottish Crop Research Inst  
PPI Dept  
Invergowrie  
Dundee, DD2 5DA  
UNITED KINGDOM  
Tel: 44 1382 562 731  
Fax: 44 1382 562 426  
ithoth@scri.sari.ac.uk

**Triplett, Eric W.**  
Univ of Florida  
Microbiology and Cell Science Dept  
1052 Museum Road  
Gainesville, FL 32611  
Tel: (352) 392-1906  
Fax: (352) 392-5922  
ewt@ufl.edu

**Truve, Erkki**  
Inst Chemical Physics & Biophysic  
Akadeemia Tee 23  
Tallinn, EE 12618  
ESTONIA  
Tel: 372 6 398 353  
Fax: 372 6 398 382  
erkki@kbfi.ee

**Tsiamis, George**  
Univ of Ioannina  
Env and Natural Resources Mgmt Dept  
2 Seferi Str  
Agrinio, 30100  
GREECE  
Tel: 30 264 103 9549  
Fax: 30 264 103 9576  
gtsiamis@cc.uoi.gr

**Tsitsigiannis, Dimitrios I.**  
John Innes Centre  
The Sainsbury Laboratory  
Colney Lane - Norwich Research Park  
Norfolk, NR4 7UH  
UNITED KINGDOM  
Tel: 44 1603 450 437  
Fax: 44 1603 450 011  
dimitrios.tsitsigiannis@sainsbury-laboratory.ac.uk

**Tsuge, Takashi**  
Nagoya Univ  
Grad School of Bioagricultural Sciences  
Furo-cho, Chikusa - Bioengineering Sci  
Nagoya, 464-8601  
JAPAN  
Tel: 81 52 789 4030  
Fax: 81 52 789 4030  
ttsuge@agr.nagoya-u.ac.jp

**Tsuyumu, Shinji**  
Shizuoka Univ  
Faculty of Agriculture  
836 Ohya  
Shizuoka, 422-8529  
JAPAN  
Tel: 81 54 238 4823  
Fax: 81 54 237 3028  
tsuyumu@agr.shizuoka.ac.jp

**Tudzynski, Paul W.**  
Westfälische Wilhelms Univ  
Inst fur Botanik  
Schlossgarten 3  
Muenster, 48149  
GERMANY  
Tel: 49 251 832 4998  
Fax: 49 251 832 1601  
tudzyns@uni-muenster.de

**Turgeon, B. Gillian**  
Cornell Univ  
Plant Pathology Dept  
334 Plant Science Building  
Ithaca, NY 14853-5904  
Tel: (607) 254-7458  
Fax: (607) 255-8835  
bgt1@cornell.edu

**Tuzun, Sadik**  
Auburn Univ  
Entomology and Plant Pathology Dept  
209 Life Sciences Building  
Auburn, AL 36849  
Tel: (334) 844-1997  
Fax: (334) 844-1947  
stuzun@acesag.auburn.edu

## U

**Uchiumi, Toshiki**  
Kagoshima Univ  
Chemistry and Bioscience Dept  
1-21-35, Korumoto  
Kagoshima, 890-0065  
JAPAN  
Tel: 81 99 285 8164  
Fax: 81 99 285 8163  
uttan@sci.kagoshima-u.ac.jp

**Udvardi, Michael**  
Max Planck Inst  
Molecular Plant Physiology Dept  
AM Muhlenberg 1  
Golm, 14476  
GERMANY  
Tel: 49 331 567 8149  
Fax: 49 331 567 8250  
udvardi@mpimp-golm.mpg.de

**Ugalde, Rodolfo Augusto**  
Univ of San Martin  
Inst De Investigaciones Biotecnologicas  
Av Coleectora General Paz 5445  
San Martin, BA 1650  
ARGENTINA  
Tel: 54 11 4580 7255  
Fax: 54 11 4752 9639  
rugalde@iib.unsam.edu.ar

**Uppalapati, Srinivasa Rao**  
Oklahoma State Univ  
Entomology and Plant Pathology Dept  
127 Noble Research Center  
Stillwater, OK 74078-0001  
Tel: (405) 744-8268  
Fax: (405) 744-7373  
uppalap@okstate.edu

## V

**Vaghchhipawala, Zarir E.**  
Samuel Roberts Noble Foundation  
Plant Biology Dept  
2510 Sam Noble Pkwy  
Ardmore, OK 73401  
Tel: (580) 224-6140  
zevaghchhipawala@noble.org

**Valkonen, Jari**  
Univ of Helsinki  
Plant Path Lab - Applied Biology Dept  
PO Box 27 - Latokartanonkaari 7  
Helsinki, 00014  
FINLAND  
Tel: 358 9 191 58387  
Fax: 358 9 191 58727  
jari.valkonen@helsinki.fi

**Van Alfen, Neal K.**  
Univ of California  
CAES Deans Office  
1 Shields Ave 150 Mark Hall  
Davis, CA 95616-8571  
Tel: (530) 752-1605  
Fax: (530) 752-9049  
nkvanalfen@ucdavis.edu

- Van Brussel, Anton A.**  
Leiden Univ  
Inst Molecular Plant Sciences  
Clusius Lab - 64 Wassenaarseweg  
Leiden, 2333 AL  
NETHERLANDS  
Tel: 31 71 527 5068  
Fax: 31 71 527 5088  
brussel@rulbim.leidenuniv.nl
- Van Den Ackerveken, Guido**  
Utrecht Univ  
Molecular Cell Biology Dept  
Padualaan 8 - PO Box 80 056  
Utrecht, 3508 TB  
NETHERLANDS  
Tel: 31 30 253 3013  
Fax: 31 30 251 3655  
g.vandenackerveken@bio.uu.nl
- Van Gijsegeem, Frederique**  
Laboratoire De Pathologie Vegetale  
INRA INA-PG  
16 Rue Claude Bernard  
Paris, 75231  
FRANCE  
Tel: 33 1 4408 7259  
Fax: 33 1 4408 1631  
vangijsse@inapag.fr
- Van Kan, Jan**  
Wageningen Univ  
Phytopathology Dept  
PO Box 8025  
Wageningen, 6700 EE  
NETHERLANDS  
Tel: 31 317483126  
Fax: 31 317483412  
jan.vankan@wur.nl
- Van Loon, Leendert C.**  
Utrecht Univ  
Section Phytopathology  
PO Box 800 84  
Utrecht, NL-3508 TB  
NETHERLANDS  
Tel: 31 302536700  
Fax: 31 302518366  
l.c.vanloon@bio.uu.nl
- Van West, Pieter**  
Univ of Aberdeen  
Inst of Medical Science  
Mol/Cell Biology - Foresterhill  
Aberdeen, AB25-2ZD  
UNITED KINGDOM  
Tel: 44 1224 273023  
Fax: 44 1224 273144  
p.vanwest@abdn.ac.uk
- Vanneste, Joel L.**  
Ruakura Research Centre  
Hort Research  
Private Bag 3123  
Hamilton,  
NEW ZEALAND  
Tel: 64 7 858 4781  
Fax: 64 7 858 4701  
jvanneste@hortresearch.co.nz
- Vasanthakumar, Archana**  
Univ of Wisconsin  
Entomology Dept  
1630 Linden Dr - 345 Russell Labs  
Madison, WI 53706  
Tel: (608) 262-4755  
Fax: (608) 262-3322  
ava@entomology.wisc.edu
- Verchot-Lubicz, Jeanmarie**  
Oklahoma State Univ  
Entomology and Plant Pathology Dept  
127 Noble Research Center  
Stillwater, OK 74078-0001  
Tel: (405) 744-7895  
Fax: (405) 744-6039  
verchot@okstate.edu
- Verdier-Michel, Valerie V.**  
Univ De Perpignan  
Lab Genome Development Des Plantes  
52 Ave De Villeneuve  
Perpignan, 66430  
FRANCE  
Tel: 33 468 661 774  
Fax: 33 468 668 499  
vverdier@univ-perp.fr
- Vereecke, Danny M.**  
Univ of Gent - VIB2  
Plant System Biology Dept  
Technologiepark 927  
Gent, 9052  
BELGIUM  
Tel: 32 9 33 13 911  
Fax: 32 9 33 13 809  
danny.vereecke@psb.ugent.be
- Veronese, Paola**  
Purdue Univ  
Botany and Plant Pathology Dept  
915 W State Street  
West Lafayette, IN 47907-2054  
Tel: (765) 494-9880  
Fax: (765) 494-0363  
veronese@purdue.edu
- Voegle, Ralf T.**  
Univ of Konstanz  
Phytopathologie  
Universität 10  
Konstanz, 78457  
GERMANY  
Tel: 49 7531 884 305  
Fax: 49 7531 883 035  
ralf.voegle@uni-konstanz.de
- Vorholt, Julia A.**  
INRA  
Lab Des Interactions Plantes-microrg  
BP 27  
Castanet Tolosan, 31326  
FRANCE  
Tel: 33 561 285 458  
Fax: 33 561 285 061  
vorholt@toulouse.inra.fr
- Walter, Christian**  
NZ Forest Research Institute  
Sala Street  
Rotorua,  
NEW ZEALAND  
Tel: 64 7 343 5444  
Fax: 64 7 343 5453  
christian.walter@forestreresearch.co.nz
- W**
- Walton, Jonathan D.**  
Michigan State Univ  
DOE - Plant Research Lab  
East Lansing, MI 48824  
Tel: (517) 353-4885  
Fax: (517) 353-9168  
walton@msu.edu
- Wang, Xiaohong**  
Cornell Univ  
Plant Pathology Dept  
334 Plant Science Building  
Ithaca, NY 14853-4203  
Tel: (607) 255-7845  
Fax: (607) 254-6418  
xw57@cornell.edu
- Wang, Keri**  
Samuel Roberts Noble Foundation  
Plant Biology Division  
2510 Sam Noble Pkwy  
Ardmore, OK 73401  
Tel: (580) 224-6600  
Fax: (580) 224-6692  
kwang@noble.org
- Wang, Yongsheng**  
Univ of Florida  
Plant Pathology Dept  
1453 Fifield Hall  
Gainesville, FL 32611  
Tel: (352) 392-3631x349  
Fax: (352) 392-6532  
ywang@ifas.ufl.edu
- Wang, Chunxia**  
Virginia Tech  
Virginia Bioinformatics Inst  
Washington Street (0477)  
Blacksburg, VA 24061-0331  
Tel: (540) 231-1958  
Fax: (540) 231-1678  
cwang@vbi.vt.edu
- Wangdi, Tamding**  
Oklahoma State Univ  
Entomology and Plant Pathology Dept  
127 Noble Research Center  
Stillwater, OK 74078-0001  
Tel: (405) 744-8268  
tamwangdi@yahoo.com
- Wanner, Leslie A.**  
USDA ARS  
Rm 226, Bldg 010A, BARC-West  
10300 Baltimore Ave  
Beltsville, MD 20705  
Tel: (301) 504-5953  
Fax: (301) 504-5555  
wanner@ba.ars.usda.gov
- Wegener, Christina**  
Federal Centre for Breeding Research  
Rudolf Schick Platz 3  
Gross Lusewitz, 18190  
GERMANY  
Tel: 49 382 094 5211  
Fax: 49 382 094 5120  
c.wegener@bafz.de
- Wei, Jun-zhi**  
Pioneer/Verdia  
700A Bay Road  
Redwood City, CA 94063  
Tel: (650) 298-3588  
Fax: (650) 701-1258  
jun-zhi.wei@pioneer.com
- Whalen, Maureen C.**  
San Francisco State Univ  
Biology Dept  
1600 Holloway Ave  
San Francisco, CA 94132-1722  
Tel: (415) 338-6475  
Fax: (415) 338-0927  
whalen@sfsu.edu
- White, Frank F.**  
Kansas State Univ  
Plant Pathology Dept  
4024 Throckmorton Plant Science Ctr  
Manhattan, KS 66506  
Tel: (785) 532-1362  
Fax: (785) 532-5692  
fwhite@ksu.edu
- Whitham, Steven A.**  
Iowa State Univ  
Plant Pathology Dept  
351 Bessey Hall  
Ames, IA 50011-1020  
Tel: (515) 294-4952  
Fax: (515) 294-9420  
swhitham@iastate.edu
- Wildermuth, Mary C.**  
Univ of California  
Plant and Microbial Biology  
221 Koshland #3102  
Berkeley, CA 94720-3102  
Tel: (510) 643-4861  
Fax: (510) 642-4995  
wildermuth@nature.berkeley.edu
- Wilhelm, Eva**  
Austrian Research Center Siebersdorf  
Biotechnology Dept  
Siebersdorf, A-2444  
AUSTRIA  
Tel: 43 50 550 3621  
Fax: 43 50 550 3444  
eva.wilhelm@arcs.ac.at
- Williamson, Valerie M.**  
Univ of California  
Nematology Dept  
One Shields Ave  
Davis, CA 95616  
Tel: (530) 752-3502  
Fax: (530) 752-5809  
vmwilliamson@ucdavis.edu
- Wilson, Mark**  
Colorado College  
Biology Dept  
14 E Cache La Poudre Street  
Colorado Springs, CO 80903-3243  
Tel: (719) 389-6996  
Fax: (719) 389-6940  
mwilson@coloradocollege.edu
- Wise, Roger P.**  
Iowa State Univ  
USDA ARS - Plant Pathology Dept  
411 Bessey Hall  
Ames, IA 50011-1020  
Tel: (515) 294-9756  
Fax: (515) 294-9420  
rpwise@iastate.edu
- Wobbe, Kristin K.**  
Worcester Polytechnic Inst  
Chemistry and Biochemistry Dept  
100 Institute Road  
Worcester, MA 01609-2247  
Tel: (508) 831-5375  
Fax: (508) 831-5933  
kwobbe@wpi.edu
- Woods, Kristi Y.**  
Novozymes Biologicals  
Roots Plant Care  
5400 Corporate Circle  
Salem, VA 24153  
Tel: (540) 302-1181  
Fax: (540) 389-9172  
kyw@novozymes.com

**Wulff, Brande Brule**  
Univ Politecico De Valencia  
Inst De Biologia Mol Y Cel De Plantas  
Lab 21 - Camino De Vera S/N  
Valencia, 46022  
SPAIN  
Tel: 34 96 387 7864  
Fax: 34 96 387 7859  
bwulff@ibmcv.upv.es

## Y

**Yalpani, Nasser**  
Pioneer Hi-Bred Intl  
7250 NW 62nd Ave  
PO Box 552  
Johnston, IA 50131-0552  
Tel: (515) 270-4391  
Fax: (515) 253-2149  
nasser.yalpani@pioneer.com

**Yamakawa, Takeo**  
Kyushu Univ  
SSPP Div - Plant Resources Dept  
6-10-1 Hakozaki, Higashi-Ku  
Fukuoka, 812-8581  
JAPAN  
Tel: 81 92 642 2847  
Fax: 81 92 642 2848  
yamakawa@agr.kyushu-u.ac.jp

**Yamamoto, Mikihiro**  
Okayama Univ  
Faculty of Agric  
1-1-1 Tsushima-naka  
Okayama, 700-8530  
JAPAN  
Tel: 81 86 251 8301  
Fax: 81 86 251 8301  
myama@cc.okayama-u.ac.jp

**Yoshiga, Toyoshi**  
Saga Univ  
Applied Biological Sciences Dept  
Honjo 1  
Saga, 840-8502  
JAPAN  
Tel: 81 952 288 746  
Fax: 81 952 288 746  
tyoshiga@cc.saga-u.ac.jp

**Yoshioka, Hirofumi**  
Nagoya Univ  
Grad School of Bioagricultural Sciences  
Furo-cho, Chikusa  
Nagoya, Aichi, 464-8601  
JAPAN  
Tel: 81 52 789 4283  
Fax: 81 52 789 5525  
hyoshiok@agr.nagoya-u.ac.jp

**Yurgel, Svetlana N.**  
Washington State Univ  
Inst of Biological Chemistry  
Pullman, WA 99164-6340  
Tel: (509) 335-8617  
Fax: (509) 335-7643  
syurgel@wsu.edu

## Z

**Zehner, Susanne**  
T U Dresden  
Inst Fur Genetik  
Zellescher Weg 19 Biologie  
Dresden, 01062  
GERMANY  
Tel: 49 351 4633 5407  
susanne.zehner@mailbox.tu-dresden.de

**Zhang, Yan**  
Samuel Roberts Noble Foundation  
Forage Biotechnology Group  
2510 Sam Noble Pkwy  
Ardmore, OK 73401  
Tel: (580) 224-6841  
Fax: (580) 224-6802  
yzhang@noble.org

**Zhao, Youfu**  
Michigan State Univ  
Plant Pathology Dept  
103 CIPS  
East Lansing, MI 48824  
Tel: (517) 353-3272  
Fax: (517) 353-5598  
zhaoyou@msu.edu

**Zhao, Bingyu**  
1801 Kerr Dr #12  
Manhattan, KS 66502  
Tel: (785) 532-2328  
Fax: (785) 532-5692  
bzhuo@ksu.edu

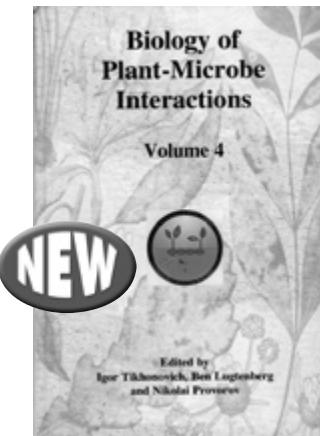
**Zhou, Lecong**  
VPI & State Univ  
Virginia Bioinformatics Inst  
Blacksburg, VA 24061-0447  
Tel: (540) 231-5664  
Fax: (540) 231-2606  
lzhou@vbi.vt.edu

**Zhou, Jian-Min**  
Kansas State Univ  
Plant Pathology Dept  
4024 Throckmorton Hall  
Manhattan, KS 66506-5502  
Tel: (785) 532-2415  
Fax: (785) 532-5692  
jzhou@plantpath.ksu.edu

**Zwiesler-Vollick, Julie L.**  
John Innes Centre  
Norwich Research Park  
Sainsbury Lab - Colney Lane  
Norwich, NR4 7UH  
UNITED KINGDOM  
Tel: 44 1603 626 435  
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E-mail: snelson@scisoc.org

### Staff Contact (ex-officio)

**AMY L. HOPE**  
IS-MPMI  
Phone: +1.651.454.7250  
Fax: +1.651.454.0766  
E-mail: ahope@scisoc.org

## MPMI EDITORS

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Laboratory of Gene Expression  
Dept. of Molecular Biology  
University of Aarhus  
Gustav Wieds Vej 10  
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Denmark  
Phone: +45.89425011  
Fax: +45.86201222  
E-mail: stougaard@mb.au.dk

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E-mail: brigitte.mauch@unine.ch

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Dept. of Agricultural Science  
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E-mail: m.grant@imperial.ac.uk

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**JIM SWEIGARD**  
DuPont Experimental Station  
Wilmington, Delaware, U.S.A.  
E-mail: jim.sweigard@cgr.dupont.com

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**MICHAEL UDVARDI**  
Max Planck Institute of Molecular  
Plant Physiology  
Golm, Germany  
E-mail: udvardi@mpimp-golm.mpg.de

### bacterial-plant symbiosis

**OTTO GEIGER**  
Centro de Investigacion sobre  
Fijacion de Nitrogeno, UNAM  
Cuernavaca, Morelos, Mexico  
E-mail: otto@cifn.unam.mx

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**HERMAN B. SCHOLTHOF**  
Department of Plant Pathology  
and Microbiology  
Texas A&M University  
College Station, Texas, U.S.A.  
E-mail: herscho@tamu.edu

### plant determinants in virus-plant interactions

**SAVITHRAMMA P. DINESH-KUMAR**  
Molecular Cellular & Developmental  
Biology  
Yale University  
New Haven, Connecticut, U.S.A.  
E-mail: savithramma.dinesh-kumar@yale.edu

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**LINDA WALLING**  
Department of Botany and Plant Sciences  
University of California, Riverside, U.S.A.  
E-mail: linda.walling@ucr.edu

### molecular microbial ecology

**GUIDO V. BLOEMBERG**  
Institute of Biology, Leiden University  
Clusius Laboratory  
Leiden, The Netherlands  
E-mail: Bloemberg@rulbim.leidenuniv.nl

### nematode-plant interactions

**GODELIEVE GHEYSEN**  
Department Molecular Biotechnology  
Faculty of Bioscience Engineering  
Ghent University, Belgium  
E-mail: Godelieve.Gheysen@UGent.be

### mycorrhizal interactions

**MARTIN PARNSIKE**  
Department of Biology I, Genetics  
University of Munich (LMU), Germany  
E-mail: martin.parniske@lrz.uni-muenchen.de

### oomycete-plant interactions

**FRANCINE GOVERS**  
Laboratory of Phytopathology  
Wageningen University,  
The Netherlands  
E-mail: francine.govers@wur.nl

J. Salmeron, Syngenta Agribusiness Biotechnology  
F. Sanchez, UNAM  
K.-B. G. Scholthof, Texas A&M  
S. C. Somerville, Carnegie Institute of Washington  
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