

# Mediterranean Phytopathological Union (MPU)



## MPU BI-ANNUAL NEWSLETTER

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## EDITORIAL

### *A Call for Collective Action*

The Mediterranean Phytopathological Union is entering a new phase in its long history. Since its beginnings nearly 50 years ago the Union has served to stimulate co-operation between plant pathologists in the Mediterranean region. At the last congress held just over a year ago in Rhodes it is clear that the Union now extends far beyond the shores of the Mediterranean sea. The 2006 congress witnessed what was probably the most diverse range of delegates than any before. Apart from delegates from countries surrounding the Mediterranean we welcomed plant pathologists from the USA, South Africa, Iran, Iraq, Bulgaria, Germany, the Netherlands and Oman amongst others and even as far away as New Zealand. MPU now serves not only those who live and work in Mediterranean countries, it embraces anyone who has an interest in the pathology of Mediterranean crops. This expansion can only be good for the Union and its members.

Another aim of the Union was to provide a means to publish scientific papers dealing with disease problems of Mediterranean crops. This was achieved through the international journal *Phytopathologia Mediterranea*. Since the first issue in 1960, *Phytopathologia Mediterranea* has been published without a break for 47 years. In recent years the editorial committee have worked hard to improve the standards of the journal and to ensure that it receives the international recognition that it deserves. Due to the persistence and hard work of Giuseppe Surico and Laura Mugnai *Phytopathologia Mediterranea* was recently accepted to be indexed by Thomson ISI. This gives the journal greater respectability at the international level and, more importantly, in two years time it will

receive an impact factor rating. This rating has become the single most important factor in assessing the value of a scientific journal and the standard of the papers it publishes. Our job now as members of the Union is to ensure that the journal receives a good rating. The only way this can be achieved is by making sure that papers get cited. To get an impact factor rating of 1.0 means that for every paper published, one paper must be cited in a paper indexed by Thomsom ISI. Next time you write a paper, see if you can cite at least one paper published in *Phytopathologia Mediterranea*. Send reprints of your papers published in *Phytopathologia Mediterranea* to plant pathologists who are working in your field and maybe they will cite your work. Send good papers to our journal, papers that will be cited. If we all make a concious effort we can be sure that *Phytopathologia Mediterranea* will get a good rating

*Alan Phillips*  
*MPU Vice President*

## Message from Mediterranean Phytopathological Union Secretariat Related to *Phytopathologia Mediterranea*

Dear MPU member

We are pleased to announce that starting from 2007 *Phytopathologia Mediterranea* has been included in the Thomson ISI citation index (<http://was.isitrial.com/help/P- fulljt.html>). This means that the journal will be evaluated for its citation rating and the all important Impact Factor. Thomson ISI need three full years of data before they can calculate the citation rating, which means that only in 2010 will we receive a rating.

Nevertheless, this is excellent news for Phytopathologists in the Mediterranean region and for those around the world who have an interest in the pathology of Mediterranean crops. We now have a specialized journal in which to publish our work and one that is listed in the citation index and will soon receive an impact factor rating.

However, to ensure that the journal receives a good rating, we encourage you to do the following:

1. In your future research papers, try to cite papers published in *Phytopathologia Mediterranea*. Papers published prior to the April 2007 issue will not be counted so it is important to cite papers from April this year and subsequent issues. Furthermore, ISI only take into account citations in journals that are included in their citation index.
2. Submit good papers to *Phytopathologia Mediterranea*, especially ones that are likely to be cited by other plant pathologists. In this respect, send reprints of your papers to other plant pathologists around the world who are working in your broad area of interest.
3. Spread the word around that *Phytopathologia Mediterranea* is now listed in the ISI citation index and that it will soon receive a citation rating.

In this issue of the newsletter, we attach the list of papers published in the last issue to encourage you and your colleagues to cite them in your future papers. The on-line access to the most recent issue of the journal will be soon available for all MPU members who have provided their e-mail address.

*Mediterranean Phytopathological  
Union Secretariat*  
<http://www.mpunion.com>

## MPU New Board (2007-2009)

### President

**Khaled M. Makkouk**, Nile Valley and Red Sea Regional Program, International Center for Agriculture Research in the Dry Areas, 15 G Radwan Ibn El-Tabib Street, Giza, P.O. Box 2416, CAIRO, EGYPT; Phone +202 5724358 / 5735829 / 5725785; Fax +202 5728099

### President Elect

**Alan Phillips**, Faculdade de Ciências e Tecnologia (SABT), Universidade Nova de Lisboa, Quinta da Torre, 2829-516 Caparica, PORTUGAL, Phone: +351 21 2948300 ext 11103; Fax: +351 21 2948530

### Board Members

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**Bogdan Cvjetkovic**, University of Zagreb, Faculty of Agriculture, Department of Phytopathology, Svetosimunska, 25 (P.O. Box 281), 10000 Zagreb, CROATIA, Phone: +385 1 2393780 / 2393786; Fax: +385 1 215300

**Maria Lodovica Gullino**, Università di Torino, DIVAPRA-Patologia Vegetale, Department of Phytopathology, via P. Giuria, 15, 10126 Torino, ITALY, Phone: +39 11 6708539; Fax: +39 11 6708541

### Secretary-Treasurer

**Giuseppe Surico**, Università di Firenze, Dipartimento di Biotecnologie Agrarie, Sez. Patologia Vegetale, P.le delle Cascine, 28, 50144 Firenze, ITALY, Phone: +39 055 3288379; Fax: +39 055 3288273

## MPU MEMBERS CONTRIBUTION

### Dr Angelo Porta-Puglia

**Address:** Via Bertero, 23-I-00156, Rome, Italy, Email: [angelopp@alice.it](mailto:angelopp@alice.it)

**Research area:** Plant Pathology, Mycology

### Dr Davide Pancaldi

**Address:** Dipartimento di Protezione e Valorizzazione Agroalimentare (DIPROVAL),  
Telephone: +390512096554; Fax No.: +390512096544; E-mail:  
[davide.pancaldi@unibo.it](mailto:davide.pancaldi@unibo.it)

**Research area:** Phytopathological, aspects and strategies to control the most important cereal diseases: Fusarium head blight (FHB), rusts, powdery mildew, septoria leaf and glume blotches. Set up of strategies to control FHB to reduce disease incidence and severity and then the risk of fusarium toxins

**Informal report:** Study of the factors involved in the accumulation of fusarium toxin in processed products to assure safe food and low health hazards. Study of the main causal agents of FHB and their chemical and biological control. Molecular identification of *Fusarium* species in rice kernels

## Dr Ismail El-Hadrami

**Address:** *Laboratoire de Biotechnologies, Protection et Valorisation des Ressources Végétales (Biotec-VRV), Faculté des Sciences Semlalia, B.P. 2390, 40 000, Marrakech, Morocco, Telephone: +212.24.439997/434649 poste 5; Fax No.: +212.24.439997 / 43464; E-mail: hadrami@ucam.ac.ma ; hadramii@hotmail.com*

**Research area:** Plant Biotechnology

## News from MPU-Associated Societies:

### IPP Training Workshop in Cairo, Egypt

FAO in collaboration with the Arab Society of Plant Protection (ASPP) organized in Cairo, Egypt during the period June 24-28, 2007 a training workshop on the use of International Phytosanitary Portal (IPP) to meet the national phytosanitary information exchange obligations under the International Plant Protection Convention. Participants from Egypt, Jordan, Lebanon, Libya, Morocco, Oman, Sudan, Syria and Yemen joined the workshop.

Dr. Dave Nowell (FAO) served as the facilitator, Dr. Bassam Bayaa (Syria) and Mr. Charles Zarzour (Lebanon) as resource persons, and Dr. Safaa Kumari (ASPP) as the rapporteur for the workshop.



## General news:

### Election of ISPP Executive Committee 2008-2013

In accordance with the Rules of Procedure of the ISPP, the Executive Committee has formed a Nomination Committee. Its function is to invite, from ISPP's national and other Associated Societies, proposals for nominees for election to the 2008-2013 Executive Committee of ISPP. From the nominees received, the Nomination Committee selects two candidates for each office

(President, Vice-President, Secretary-General and Treasurer). Election is by ballot of ISPP Councilors in 2007/8.

ISPP Statutes place emphasis on geographical diversity in this process. The Executive Committee has therefore agreed that Nomination Committee members should loosely represent regions of the world. There are nine Nomination Committee members, chosen for their association with: East and South-East Asia; Europe; Middle East; North America; Oceania; South Asia; South and Central America; Southern Africa; West, Central, East and North Africa.

Proposals of nominees are now invited for consideration by the Nomination Committee. Representatives (for example a Councilor) of an Associated Society of ISPP should send their proposal to Peter Scott (p.scott@cabi.org) as Chairman of the Committee. Others should send their proposal through a representative of an Associated Society.

Names and full contact details (including e-mail address) should be sent. Evidence of a nominee's willingness to serve, if elected, must be provided. It would be appreciated if nominations could arrive by 31 August 2007. Information about ISPP can be found at (<http://www.isppweb.org/index.asp>).

The ISPP (founded in 1968) is the representative international body of plant pathology societies. It is a member of the International Union of Biological Sciences (IUBS), the International Union of Microbiological Sciences (IUMS), and has liaison with the UN Food and Agriculture Organization (FAO).

Those elected to the executive committee enjoy responsibility and status in the discipline of plant pathology. They are unpaid. They should expect to commit significant effort to their office, and be rewarded with the satisfaction of having the potential to make an important contribution to their discipline.

Dr Peter R Scott, Immediate Past President, International Society for Plant Pathology; Vice-President, 9th International Congress of Plant Pathology, Torino, 2008. CAB International, Wallingford OX10 8DE, UK. Tel: +44 (0)1491 832111. Fax: +44 (0)1491 833508. Mobile: +44 (0)7710 238423. Email: p.scott@cabi.org

## **The Aspergillus Website**

Readers may be interested to know of an informative and highly active website about the fungus *Aspergillus* and especially the human and animal diseases that it causes. Please see: <http://www.aspergillus.org.uk/>

## **Integrated Pest Management Network (IPMnet)**

IPMnet NEWS delivers current IPM and crop pest management information as well as internet links to related sources. It is focused on contemporary, economic, environmentally aware approaches to managing/controlling weeds, pathogens, insects, nematodes, and vertebrate pests in crops and amenity plantings, as well as preventing or containing invasive crop-related species. IPMnet NEWS welcomes information about global/local IPM developments.

IPMnet NEWS is without charge to recipients. It is published every six weeks. Financial underwriting comes from: the USDA's Cooperative State Research, Education, and Extension Service; the US Agency for International Development's IPM Collaborative Research Support Program; and, the Integrated Plant Protection Center at Oregon State University, USA.

You can request an e-mail example of IPMnet NEWS to evaluate its content and potential usefulness from ([IPMnet@science.oregonstate.edu](mailto:IPMnet@science.oregonstate.edu)) before deciding about regular e-mail issues.

A E Deutsch, Editor/Coordinator, IPMnet NEWS ([IPMnet@science.oregonstate.edu](mailto:IPMnet@science.oregonstate.edu)), c/o Integrated Plant Protection Center, 2040 Cordley Hall, Oregon State University, Corvallis, OR 97331-2915, USA.

## Coming Events:

- ▶ 28 July - 1 August 2007  
**2007 Joint Annual Meeting of The American Phytopathological Society and Society of Nematologists**, San Diego, California, USA.  
Register at: <http://meeting.apsnet.org>
- ▶ 12-17 August 2007  
**XI International Workshop on Fire Blight in Portland**, Oregon, USA.  
See: [www.oregonstate.edu/conferences/fireblight2007](http://www.oregonstate.edu/conferences/fireblight2007)
- ▶ 12-19 August 2007  
**12<sup>th</sup> International IUFRO Conference on Root and Butt Rots of Forest Trees in Berkeley**, California, USA.  
See: <http://nature.berkeley.edu/IUFRO2007/rootrot/index.html>
- ▶ 20-24 August 2007  
**3rd Asian Conference on Plant Pathology ("The role of plant pathology in rapidly globalizing economies of Asia")** in Yogyakarta, Indonesia.  
See: [www.3rdacpp.com](http://www.3rdacpp.com)
- ▶ 26-31 August 2007  
**4th IUFRO Meeting on Phytophthoras in Forests and Natural Ecosystems at the Asilomar Conference Grounds in Monterey**, California, USA.  
Contact Katie Palmieri: [palmieri@nature.berkeley.edu](mailto:palmieri@nature.berkeley.edu)  
See: <http://nature.berkeley.edu/IUFRO2007/phytophthora>
- ▶ 2-4 September 2007  
**The 1st International Conference on Date Pala: Integrated Crop Management of Date Palm and its Impacts for Producing Clean and Safet dates**, Giza, Egypt.  
*Please Contact:* Dr Ahmed Abdu Hamed, Programmed Committee Chariman, 7 Nadi El-Seid Street, Dokki, Giza, Egypt, Tel/Fax: 3372193/ 3356175;  
E-mail: [plant\\_protection@hotmail.com](mailto:plant_protection@hotmail.com); [plantprotection5@yahoo.com](mailto:plantprotection5@yahoo.com)
- ▶ 10-14 September 2007  
**International Symposium on Novel Approaches to Disease and Pest Management in Banana and Plantain**, Greenway Woods, White River, South Africa. Website: [www.promusa.org](http://www.promusa.org)
- ▶ 11-12 September 2007  
**AAB (Association of Applied Biologists) Advances in Virology**, University of Greenwich, London, UK. Website: [www.aab.org.uk/contentok.php?id=184&basket=wwsshowconflist](http://www.aab.org.uk/contentok.php?id=184&basket=wwsshowconflist)
- ▶ 12-14 September 2007  
**The BSPP Presidential Meeting: Attack and Defence in Plant Disease**, at the University of Bath, United Kingdom. See: <http://www.bsppmeetings.org.uk>
- ▶ 24-27 September 2007  
**16<sup>th</sup> Biennial Australasian Plant Pathology Society Conference**, Adelaide, Australia  
[www.australasianplantpathologysociety.org.au/](http://www.australasianplantpathologysociety.org.au/)

- ▶ 26-30 September 2007  
**Mycoglobe International Conference**, Bari, Italy.  
Website: [www.ispa.cnr.it/mycoglobe/conference/index.php?id\\_conf=13](http://www.ispa.cnr.it/mycoglobe/conference/index.php?id_conf=13)
- ▶ 1-3 October 2007  
**2<sup>nd</sup> International Conference on Bacterial Blight of Rice (ICBB)**, Nanjing, China.  
Website: <http://icbb2007.njau.edu.cn>
- ▶ 8-12 October 2007  
**2<sup>nd</sup> International Symposium on Tomato Diseases**. Kusadasi, Turkey. *Please Contact:* Prof. Hikmet Saygili, Email: [hikmet.saygili@ege.edu.tr](mailto:hikmet.saygili@ege.edu.tr); Website: [www.2istd.ege.edu.tr](http://www.2istd.ege.edu.tr)
- ▶ 15-18 October 2007  
**XVI<sup>th</sup> International Plant Protection Congress (IPPC)** to be held in association with IAPPS (International Association for the Plant Protection Sciences) and the BCPC International Congresses and Exhibitions, Scottish Exhibition Conference Center, Glasgow, Scotland, UK.  
Website: [www.bcpc.org/IPPC2007](http://www.bcpc.org/IPPC2007)
- ▶ 15-19 October 2007  
**10<sup>th</sup> International Plant Virus Epidemiology Symposium** “Controlling Epidemics of Emerging and Established Plant Virus Diseases – The Way Forward”, ICRISAT, Hyderabad, India. *Please Contact:* Dr. P. Lava Kumar, Convener IPVE2007, ICRISAT, Patancheru 502324, Andhra Pradesh, India, Email: [p.lavakumar@cgiar.org](mailto:p.lavakumar@cgiar.org)  
Website: [www.ipve2007.net](http://www.ipve2007.net)
- ▶ 21-26 October 2007  
**14<sup>th</sup> International Botrytis Symposium**, Cape Town, South Africa.  
Email: [conf@conferencesetal.co.za](mailto:conf@conferencesetal.co.za); Website: [//academic.sun.ac.za/botrytis2007](http://academic.sun.ac.za/botrytis2007)
- ▶ 12-15 November 2007  
**First International Phytoplasma Working group Meeting (IPWG)**, Bologna, Italy.  
*Please Contact:* Prof. Assunta Bertaccini, Convener, University of Bologna; Fax: +39-051-2096723; Email: [bertaccini\\_a@biblio.cib.unibo.it](mailto:bertaccini_a@biblio.cib.unibo.it)  
Website: [//www.phytoplasma-vector.com/index.htm/](http://www.phytoplasma-vector.com/index.htm/)
- ▶ 19-21 November 2007  
**Third International Conference on Plant Pathology & 7th Biennial Meeting of Pakistan Phytopathological Society**, Department of Mycology & Plant Pathology, University of Punjab, Lahore, Pakistan. *Please Contact:* Prof. Dr. Rukhsana Bajwa, Department of Mycology and Plant Pathology, Quaid-e-Azam Campus, University of the Punjab, Lahore-54590, Pakistan; Tel: +92 429231846-7; Fax: +92 429231187; E-mail: [chairperson@mpp.pu.edu.pk](mailto:chairperson@mpp.pu.edu.pk); website: [www.pu.edu.pk/conferebce/mppl-conference-07.asp](http://www.pu.edu.pk/conferebce/mppl-conference-07.asp)
- ▶ 22-24 November 2007  
**5<sup>th</sup> International Congress of Mediterranean group on Pesticide Research (MGPR)**, Agadir, Morocco. *Please Contact:* MGPR 2007 Secretariat, B.P: 1123 Agadir 80 000, Morocco. Tel: +21228241006/0155; Fax: +21228242243; Email: [mgpr2007@gmail.com](mailto:mgpr2007@gmail.com); Website: [www.iavcha.ac.ma](http://www.iavcha.ac.ma)
- ▶ 2-4 December 2007  
**2007 National Fusarium Head Blight Forum**, Kansas City, Missouri, USA.  
Contact: [scabusa@scabusa.org](mailto:scabusa@scabusa.org); See: [www.scabusa.org/forum07.html](http://www.scabusa.org/forum07.html)
- ▶ 11 December 2007  
**AAB (Association of Applied Biologists) Advances in Nematology**, at the Linnean Society, London, UK. See: <http://www.aab.org.uk/contentok.php?id=184&basket=wssshowconflist>

- ▶ 11-14 December 2007  
**International Conference on Emerging and Re-Emerging Viral Diseases of the Tropics and Sub-Tropics**, New Delhi, India. Please Contact: Dr Anupam Varma, Conference Chairman, ICVT-2007, Indian Virological Society, P.B. No. 11318, National Agricultural Science Complex, New Delhi 110012, India, Tel: +91-11-25842134; Email: icvtdelhi@yahoo.com; Fax: +91-11-25843113; Mobile: +91-9818756899; Website: www.icvt07delhi.org
- ▶ 12-14 December 2007  
**National Soybean Rust Symposium**, Louisville, Kentucky, USA. Email: aps@scisoc.org; Website: www.apsnet.org
- ▶ 7-10 April, 2008  
**The 2<sup>nd</sup> Arab Conference for Applications of Biological Control in the Arab countries**, Cairo, Egypt. Website: //www.esbcp.org/Conferences.htm
- ▶ 26-30 July 2008  
**APS Annual Meeting, Minneapolis, Minnesota, USA**  
www.apsnet.org
- ▶ 24-29 August 2008  
**9<sup>th</sup> International Congress of Plant Pathology (ICPP 2008)**, Torino, Italy.  
*Please Contact:* Congress Secretariat, Valentina Communication, P.Via Cibrario 27, 10143 Torino, Italy, Phone: +39-011 4374250; Fax: +39-01 14374318  
Email: info@icpp2008.org; Website: www.icpp2008.org
- ▶ 30 August – 2 September 2008  
**10<sup>th</sup> International Fusarium Workshop**. Alghero, Sardinia, Italy.  
*Please Contact:* Quirico Migheli, qmigheli@uniss.it or Virgilio Balmas, balmas@uniss.it; Website: http://www.cdl.umn.edu/scab/10th\_fhb\_wkshp.htm
- ▶ 22-26 September 2008  
**APS Caribbean Division meeting, part of the 6th International Scientific Seminar on Plant Health**, in Havana, Cuba. Contact: aps@scisoc.org; See: www.apsnet.org

## Papers Published by MPU members during 2006-2007:

### FUNGAL DISEASES

- Alberti I., M. Vibio, L. Sella, M. Dal Prà, A. Pisi and D. Pancaldi. 2006. Monitoraggio della presenza di *Fusarium* spp. su seme di riso da riproduzione nell'Italia del nord. Giornate Fitopatologiche, 2: 327-332.
- Alberti, I., M. Dal Prà, M. Vibio, L. Sella, V. Cazzola, A. Pisi and D. Pancaldi. 2006. Molecular identification of *Fusarium* species recovered from rice kernels in different growing areas of northern Italy in years 2003-2004. Pages 359-361. In: Proceedings of the 12<sup>th</sup> Congress of the Mediterranean Phytopathological Union (MPU), 11-15 June Rhodes Island, hellas.
- Arfaoui, A., A. El Hadrami, Y. Mabrouk, B. Sifi, A. Boudabous, I. El Hadrami, F. Daayf, and M. Chérif. 2007. Treatment of chickpea with *Rhizobium* isolates enhances the expression of phenylpropanoid defense-related genes in response to infection by *Fusarium oxysporum* f. sp. *Ciceris*, PPB (in press).
- Boudjeko, T., P. F. Djocgoue, J. D. Nankeu, H. D. Mbouobda, D. N. Omokolo and I. El Hadrami. 2006. Luteolin derivatives and heritability of resistance to *Phytophthora megakarya* in *Theobroma cacao*. Australian Journal of Phytopathology, 36: 56-61.

- Bouizgarne, B., M. Barakate, I. El Hadrami and Y. Ouhdouch. 2006. Novel production of isochainin by a strain of *Streptomyces* sp. isolated from rhizosphere soil of the indigenous Moroccan endemic plant *Argania spinosa* L. *World Journal of Microbiology and Biotechnology*, 22: 423-429.
- Djocgoue, P.F., T. Boudjeko, H.D. Mbouobda, D.J. Nankeu, I. El Hadrami, D. N. Omokolo and I. El Hadrami. 2007. Heritability of phenolics in the resistance of *Theobroma cacao* against *Phytophthora megakarya*, the causal agent of black pod disease, (in press).
- Jaiti, F., A. Meddich and I. El Hadrami. 2007. Effectiveness of arbuscular mycorrhizal fungi in the protection of date palm against bayoud disease, (soumis).
- Pace-Lupi, T., A. Porta-Puglia, A. Ippolito and F. Nigro. 2006. First record of *Verticillium dahliae* on Potato in Malta. *Plant Disease*, 90: 1108.
- Pancaldi D. and I. Alberti. 2006 – Impiego di fungicidi ad inizio fioritura per il contenimento della fusariosi della spiga del frumento duro e tenero. *Giornate Fitopatologiche*, 2: 319-326.
- Pancaldi, D., A. Pisi, I. Alberti and A. Prodi. 2006. Effectiveness of E.B.I. fungicides applied at different growing stage against *Fusarium* head blight of wheat. Pages 364-367. In: Proceedings of the 12<sup>th</sup> Congress of the Mediterranean Phytopathological Union (MPU), 11-15 June Rhodes Island, hellas.
- Pancaldi, D., A. Pisi, I. Alberti and G. Filippini. 2006. Effects of S.B.I. fungicides of *Fusarium* head blight of wheat and their influence on deoxynivalenol content in kernels. Pages 374-377. Proceedings of the 12<sup>th</sup> Congress of the Mediterranean Phytopathological Union (MPU), 11-15 June Rhodes Island, hellas.
- Porta-Piglia A. and D. Mifsud, 2006. First record of *Peronospora* sp. on basil in Malta. *Journal of Plant Pathology*, 88: 124.
- Porta-Puglia A. and D. Mifsud. 2006. First record of *Colletotrichum acutatum* on strawberry in Malta. *Journal of Plant Pathology*, 88, 224.
- Porta-Puglia, A. 2007. Problemi fitopatologici delle sementi orticole. *Informatore Fitopatologico - La Difesa delle Piante*, 57(2): 9-12.
- Porta-Puglia, A. and D. Mifsud, 2006. First record of powdery scab caused by *Spongospora subterranea* subsp. *subterranea* on potato in Malta. *Journal of Plant Pathology*, 88: 223.
- Porta-Puglia, A. and D. Mifsud, 2006. Fungal and fungal-like plant pathogens of the Maltese Islands. *Petria*, 16: 163-256.
- Riccioni, L., M. Valvassori, G. Di Giambattista and A. Porta-Puglia, 2006. Emmer wheat, a potential new host of *Tilletia indica*. *European Journal of Plant Pathology*, 116: 167–170.
- Saqrane, S., I. El Ghazali, Y. Ouahid, M. El Hassni, I. El Hadrami, L. Bouarab, F. F. del Campo, B. Oudra, V. Vasconcelos. 2007. Phytotoxic effects of cyanobacteria extract on the aquatic plant *Lemna gibba*: microcystin accumulation, detoxication and oxidative stress induction. *Water Research* (in press).
- Wahid, N., I. El Hadrami and Boulli. 2007. Variabilité du potentiel germinatif des semences de certaines populations marocaines du Pin maritime (*Pinus pinaster* Aiton) sous conditions contrôlées. *Acta Botanica Gallica*, 154(1): 7-19.

## Viral DISEASES

- Ansi, A., S.G. Kumari, A. Haj Kasem, K.M. Makkouk and I. Muharram. 2007. The Occurrence of Barley yellow dwarf viruses on cereal crops and wild grasses in Syria. *Arab Journal of Plant Protection*, 24(1): 1-7.

- Kumari, S.G. and K.M. Makkouk. 2007. Virus diseases of faba bean (*Vicia faba* L.) in Asia and Africa. *Plant Viruses*, 1(1): 93-105.
- Kumari, S.G., I.D. Ismil and R. Al-Jallad. 2007. The effect of the seed treatment of faba beans with Thiamethoxam and Imidacloprid pesticides in Reducing the Incidence of bean leaf roll luteovirus. *Tishreen University Journal for Studies and Scientific Research-biological Sciences Series*, 29(1): 171-180.
- Makkouk, K.M. and S.G. Kumari. 2006. Molecular Diagnosis of Plant Viruses. *Arab Journal of Plant Protection*, 24(2): 138-135.
- Shiyang, B., W. Xiaoming, Z. Zhendong, Z. Xuxiao, S. Kumari, A. Freeman and J. van Leur. 2007. Survey for faba bean and field pea viruses in Yunnan Province, China. *Australasian Plant Pathology*, 36: 347-353.

## BIOLOGICAL CONTROL

- Arfaoui A., B. Sifi, A. Boudabous, I. El Hadrami and M. Chérif, 2006. Identification of *Rhizobium* isolates possessing antagonistic activity against *Fusarium oxysporum* f.sp. *ciceris*, the causal agent of Fusarium wilt of chickpea. *Journal of Plant Pathology*, 88(1): 67-75.
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