PUBLICATIONS New ISCB Phase II (2004 to 2008)

BIOPESTICIDES (BP1)

Publications in International Journals


Popular articles


Book chapters and monographs


Poster presentations
• Enkerli, J. and Widmer, F., 2006. Population structure of the insect pathogenic fungus Metarhizium anisopliae in two Swiss grassland fields. 5th meeting of the IOBC sub-group “soil insect pests” of the working group insect pathogens and entomoparasitic nematodes, Auer/Ora, Italy, October 16-18.


**Oral presentations**


- Ghormade, V. and Enkerli, J., 2006. Molecular tools for characterization of the fungal biocontrol agent *Metarhizium anisopliae* used for control of *Helicoverpa armigera* (Lepidoptera; gram pod borer, a polyphagus insect). Mycology Symposium, ETH Zurich, Switzerland, January 25.


Publications ISCB Phase II (2004-2008)


Other (semester thesis, master and diploma thesis, PhD thesis, etc)
• Ph. D awarded to Pallavi B. Nahar (Feb 2005) “Development of biocontrol agents for the control of pests in agriculture using chitin metabolism as a target”

BIOREMEDIATION (BR2)

Publications in International Journals

**Poster presentations**


• Chouhan, R. S., Gogoi, M., Manonmani, H.K., Thampi, K.R., Bilecka, I. and Thakur, M.S. (CFTRI and EPFL), 2006. Highly sensitive immuno-chemiluminescence biosensor for pesticide analysis. 9th World Congress on Biosensors, Toronto, Canada, May 9-12.


• Wangoo Nishima and Raman Suri C. Quantum dots and their potential applications. Paper presented in the conference: Self Assembly Route to Nanomaterials held at BARC, Mumbai. April, 2006.


**Oral presentations**


• Dr K Vikas Singh (PhD degree awarded)

**Publications in International Journals**


**Poster presentations**


• Raina V, Hans-Rudolf Buser, Christof Holliger, and Hans-Peter E. Kohler. Identification of hydroxylated metabolites formed during degradation of beta and delta hexachlorocyclohexane by Sphingobium indicum B90A. Poster presentation at 65th Annual Assembly of SSM, Collège Propédeutique 1, University of Lausanne, March 7–8, 2006


Oral presentations


• Raina V. Identification of metabolites formed during degradation $\beta$- and $\delta$-hexachlorocyclohexane by Sphingobium indicum B90A Oral Presentation at Second Meeting of Swiss Microbial Ecology (SME), Session Biodegradation, 28-29-30th of September 2006 in Bellinzona

Other (semester thesis, master and diploma thesis, PhD thesis, etc)
• Mandeep Dadhwal. “Characterisation of Culturable Bacterial Community from High Dose Point HCH Contaminated Soils and Proposal of Biostimulation as an Approach for HCH Decontamination.” (PhD thesis)

• Sharma, P., 2007. Haloalkane Dehalogenase (Lin B) is responsible for $\beta$ and $\delta$ Hexachlorocyclohexane Transformation in Sphingobium indicum B90A and IS-6100 Mediated Acquisition of Lin Genes via Homologous Recombination. University of Delhi, New Delhi (PhD thesis).


PULSES (PS1)

Publications in International Journals

Publications in National Journals


Book chapters and monographs


Poster presentations


Oral presentations


• Pooggin, M., 2006. Suppression and circumvention of host deference by plant viruses. EMBO Workshop on Plant Virology, Helsinki, Finland, July 1-5.


• Veluthambi, K., 2006. Suppression of silencing of an inverted T-DNA repeat by Mungbean yellow mosaic virus (MYMV) AC2 is associated with a DNA rearrangement that resolves the inverted repeat into a single-copy locus. International Conference on RNA Interference, International Centre for Genetic Engineering and Biotechnology, New Delhi, India, October 26-27.

Other (semester thesis, master and diploma thesis, PhD thesis, etc)


• Nogbri, Pyniar Lyngdoh. Studies on regeneration and transformation of Vigna mungo. (Dissertation in partial fulfilment of Master’s degree).

• Rajeswaran, R., 2007 Transactivation of Mungbean yellow mosaic virus-Vigna (MYMV-Vig) promoters. Madurai Kamaraj University, Madurai (PhD thesis).

PULSES (PS4.1)

Publications in International Journals


Book chapters and monographs


**Poster presentations**

• Shipra Gupta, P., Sharmila, P., Burma, P.K. and Pardha Saradhi, P., 2006. Cre-loxP site specific c recombination system is ideal for raising antibiotic marker free *Brassica juncea* transgenics. “Biodiversity related International Conventions: role if Indian scientific c community” at Indian National Science Academy, New Delhi, March 8-10.


**Oral presentations**


**PULSES (PS4.2)**

**Publications in International Journals**


**Book chapters and monographs**


Poster presentations


Oral presentations

• Sharma, K.K., 2006. Biotechnological approaches for biotic and abiotic stresses in crops of the semi-arid tropics. PennState University, USA, April 11.
• Sharma, K.K., Bhatnagar-Mathur, P., Hoisington, D. and Dar, W., 2007. Biosafety and commercial issues related to GM crops. 3rd National training workshop on biosafety issues and Web resources in GMOs, NRCPB, IARI and MOEF, Govt. of India, IARI, New Delhi, June 7-9.

Other (semester thesis, master and diploma thesis, PhD thesis, etc)
• Ramakrishna Babu, ANGRAU, Chickpea transgenics for insect resistance (PhD Thesis)
• Ms. K. Prasanthi, M.Sc, Osmania University, Tissue culture and transformation of chickpea (MSc Thesis)
• Ms. Naga Padmini, M.Tech, JNTU, Tissue culture and transformation of chickpea (MSc Thesis)
• C. Ajay, Chickpea tissue culture (B. Tech)
• K. Muni Manjunath, Chickpea transformation for drought tolerance (B. Tech)

PULSES (PS5)

Publications in International Journals

Popular articles
Poster presentations

- C.P.Upadhyay 2005 “Development of salt stress tolerant marker free transgenics of *Vigna mungo*”. at the Annual Pulse Network Meeting at the School of Biotechnology, Madurai Kamraj University 4-6 February.
- C.P.Upadhyay 2006. “Progress and perspective of obtaining marker free salt stress tolerant transgenics of *Vigna mungo*” at ICRISAT, Hyderabad 2-4 February.
- C.P.Upadhyay 2006 “Development and evaluation of transgenic blackgram (*Vigna mungo*) for salt stress tolerance by overexression of the *glyoxalase1* gene” at the University of Delhi 6-8 December.

Oral presentations

- Bhalla-Sarin 2005, N “Antibiotic marker free approach for obtaining salt stress tolerant *Vigna mungo*” at the Annual Pulse Network Meeting at the School of Biotechnology, Madurai Kamraj University 4-6 February.

Other (semester thesis, master and diploma thesis, PhD thesis, etc)

- Kumar, D., 2006. To compare the expression of the gene XV4 and XV4+glyI in imparting abiotic stress tolerance to transgenic *Nicotiana tabacum* plants.
- Jawaharlal Nehru University, New Delhi (M.Sc. thesis).
Publications ISCB Phase II (2004-2008)


**PULSES (PS6)**

*Publications in International Journals*

- Saha, P, Dasgupta, I, and Das, S, A novel approach for developing resistance in rice against phloem limited viruses by antagonising the phloem feeding hemipteran vectors *Plant Mol. Biol.* 62 :735-752 , 2006
- Saha P., Chakraborti D., Sarkar, A., Duttal, ,Basu D. and Das S Characterisation of vascular-specific Rss1 and rolC promoters for their utilization and engineering plants to develop resistance against hemipteran insect pests.. *Planta* 226: 429-442, 2007

*Book chapters and monographs*

Poster presentations
• Mondal, H.A., 2007. Efficacy of Mannose binding plant lectin against Bemisia tabaci is correlated with its binding ability to the insect gut receptors. National Symposium on 21st Century Research in Biochemistry and Biophysics, Kalyani University, West Bengal, India, February 1-3.

Oral presentations
• Das, S., 2005. Allium sativum leaf lectin is antagonistic towards economically important aphids. 7th International symposium on Aphids, Fremantle, Australia, October 2-7.

Other (semester thesis, master and diploma thesis, PhD thesis, etc)
• Chakraborti, D., 2006. Expression of mannose binding garlic lectin in chickpea to protect from the attack of sucking insect pest. BOSE Institute, Kolkata (PhD thesis).

PULSES (PS7)

Publications in International Journals

Publications in National Journals
• Das, P. and Sarmah, B.K., Establishment of an in vitro regeneration system suitable for Agrobacterium mediated transformation of Kabuli type Chickpea (Cicer arietinum L.). Legume Research 29 (3) 163 – 168

Book chapters and monographs

Oral presentations
• Sarmah, B.K., 2006. Development of transgenic chickpeas resistant to insect pests. Washington State University, Pullman, USA, August 23.
• Sarmah, B.K., 2005. Presentation of Progress on Chickpea Improvement Research. CSIRO Plant Industry, Canberra, Australia, May 11.

Other (semester thesis, master and diploma thesis, PhD thesis, etc)
• Padma Yella. 2006. Development of transgenic chickpea (Cicer arietinum L) using winged bean protease inhibitor gene to confer resistance against pod borer (Helicoverpa armigera). Thesis submitted to AAU, Jorhat for the award of Master degree

• Sumita Acharjee. 2008. Development of transgenic Blackgram (Vigna mungo L) resistant to pod borers. Thesis submitted to Guwahati University for the award of PhD degree. (vectors constructed under the ISCB programme were used for this thesis.

TRANS-SECTORAL TOPICS (TS4)

Publications in International Journals


Publications in National Journals

Popular articles

Book chapters and monographs

Poster presentations


• Sharma, H.C., Arora, R., Dhillon, M.K. and Romeis, J., 2005. Influence of Cry 1Ab and Cry 1Ac intoxicated Helicoverpa armigera larvae on the survival and development of the parasitoid, Campoletis chlorideae. 4th International Food Legumes Research Conference, IARI, New Delhi, October 18-22.


Oral presentations
• Lawo, N.C., Romeis, J Much ado about nothing: Can biological control agents live with transgenic Bt crops? Talk given at the “Kolloquien Forschungsgruppe 33.3; Agroscope ART Reckenholz, April 30th 2008 in Zürich Switzerland.


• Lawo N.C., Romeis, J, Effectiveness of Bt chickpeas and an entomopathogenic fungus to control Helicoverpa armigera (Lepidoptera: Noctuidae). Talk given at the “Indo-Swiss Pulse Network Meeting”, February 14th & 15th 2008 in Hyderabad, India.

• Lawo, N.C., Romeis, J, Compatibility of Bt-transgenic pulses with biological control - Assessing Bt-related indirect effects on an insect predator. Talk given at the “Indo-Swiss Pulse Network Meeting”, Dec 5th – 7th 2006 in Delhi, India.

• Lawo, N.C., Romeis, J, Compatibility of Bt transgenic pulses with biological control. Talk given at the “Indo-Swiss Pulse Network Meeting”, February 2nd – 4th, 2006 in Hyderabad, India.


• Sharma, H.C., 2005. Non-target effects of transgenic crops in the environment. National Symposium on Transgenic Crops in Pest Management, Department of Plant Molecular Biology and Biotechnology, Centre for Plant Molecular Biology, Tamil Nadu Agricultural University, Coimbatore, India, September 12-13.


• Sharma, H.C., 2005. Pest management in food legumes. 4th International Food Legume Research Conference, IARI, New Delhi, October 18-22.


Other (semester thesis, master and diploma thesis, PhD thesis, etc)

• Tissières, Nathalie, 2005. Impact of Bt-transgenic cotton on cotton aphids. ETH Zurich, Switzerland. (Semester thesis).

SOIL IMPROVEMENT (BU)

Publications in International Journals


Publications in National Journals

• Devendra K. Choudhary, Anil Prakash , B.N. Johri Induced systemic resistance (ISR) in plants: mechanism of action, Indian J. Microbiol. 47:289-297

• Devendra Kumar Choudhary, Bhavdish N. Johri and Anil Prakash. Volatiles as priming agents that initiate plant growth and defence responses, Current Science,Vol. 94, No. 5

• Mittal, S and Johri, BN. 2007. Assessment of rhizobacterial diversity of Triticum aestivum (wheat) and Eleusine coracana (mandua) from Northern region of India. Current Science, VOL. 93, NO. 11, 10 December, 2007.


Book chapters and monographs

SOIL IMPROVEMENT (IIT)

Publications in International Journals


Poster presentations


Oral presentations

- ISCB meeting held at FiBl, Presentation presented by Dr Vikram Sahai

Other (semester thesis, master and diploma thesis, PhD thesis, etc)


SOIL IMPROVEMENT (BIB)

Publications in International Journals


Oral presentations


- Boerstler Boris, Raab Philipp, Redecker Dirk, Mitochondrial large ribosomal subunit sequences as potential marker for population studies of *Glomus intraradices*. Mycological Society of America Meeting, Baton Rouge, Louisiana, 5 to 9 August2007.

Other (semester thesis, master and diploma thesis, PhD thesis, etc)


SOIL IMPROVEMENT (FiBL)

Publications in International Journals

Publications in National Journals

Book chapters and monographs
Publications ISCB Phase II (2004-2008)   25 / 31

Indo-Swiss Collaboration in Biotechnology


Poster presentations
- Vieweger, Anja, 2005. Effects of single- and multiple-strain mycorrhizal inoculants on growth and fruit yield of strawberry plants in field experiments. Swiss Arbuscular Mycorrhiza Meeting, ETH Zurich, Institute of Plant Sciences, in Eschikon/Lindau, Switzerland, April 8.

Other (semester thesis, master and diploma thesis, PhD thesis, etc)
- Hildermann, Isabell (not published yet). "Auswirkungen reduzierter Bodenbearbeitung auf die Wurzelbiomasse und die Mykorrhizakolonisierung in verschiedenen Tiefenstufen". University of Hohenheim, Germany and FiBL Switzerland. (Master thesis).

**SOIL IMPROVEMENT (GBPUAT)**

Publications in National Journals

Book chapters and monographs

Poster presentations
- Rashmi Srivastava and A.K. Sharma on Cow Dung Extract: A good medium for the growth of pseudomonads and enhancing the growth of rice. Conference of Association of Microbiologists, India from December, 2006 held at Barkatullah University, Bhopal

Oral presentations
• K. Sharma on Diversity and Significance of Arbuscular Mycorrhiza in TSBF workshop held at Cochin, India in June, 2005.
• Rashmi Srivastava on Management of fusarium wilt of chilli and tomato using biointensive integrated crop management in meeting of Society of Mycology and Plant Pathology, India held at GB Pant Univ. of Agril. & Tech., Pantnagar from 9 - 11 November, 2006.

Other (semester thesis, master and diploma thesis, PhD thesis, etc)

**SOIL IMPROVEMENT (LAMUN)**

Publications in International Journals

Publications in National Journals
Book chapters and monographs
- Aragno, Michel, “Do It Your Soil”: Swiss Virtual Campus course on soil science. Module 6: Fertilité et gestion durable des sols, Séquence 3: Pratiques culturelles et fertilité: la gestion durable des sols. This part was largely inspired by the ISCB SA project, and Dr. Alok Adholeya (TERI) contributed largely by providing documentation, pictures and field visits.
- Gobat, J.M., Aragno, M., Matthey, W., “Le Sol Vivant”, 3d edition (in press) PPUr Lausanne were also enriched by information and experience from the ISCB SA project, in particular chap. 17 (La Rhizosphère) and 18 (Les Symbioses du Sol).

Oral presentations
- Presentation by Roesti, Anne Smiejan and Aragno, Michel of the project advancement at each annual meeting.

Other (semester thesis, master and diploma thesis, PhD thesis, etc)

SOIL IMPROVEMENT (TERI)

Publications in International Journals

Publications in National Journals

Popular articles

Book chapters and monographs
Poster presentations


Oral presentations

- Adholeya, A., 2005. A unique technology developed in India finds need in developed world besides its relevance in developing countries. A Symposium on Emerging areas in Chemistry, organised by Hindu college, New Delhi, December 1.
- Adholeya, A. 2005. Presentation given in a consultation meeting on Conservation and sustainable utilization of microbial resources of NE region: Priorities for networking, organized jointly by Department of Biotechnology (DBT), New Delhi and Institute of Bioresources and Sustainable Development (IBSD), Imphal. IBSD, Imphal, May 30-31

WHEAT NETWORK (4)

Publications in International Journals

- Saharan, M. S. and Naef, A. 2008. Detection of genetic variation among Indian wheat head scab pathogens (Fusarium spp./isolates) with microsatellite markers. Crop Protection 27: 1148-1154. (publication from the ISCB I phase)

Publications in National Journals

- Priyamvada, Tiwari, R., Saharan, M.S., Chatrath, R., Siwach, P. and Mishra, B. Slow rusting gene Lr34 in Indian wheat genotypes. Indian Journal of Biotechnology (communicated), STS marker based tracking of slow rusting Lr34 gene in Indian wheat genotypes. Indian Journal of Biotechnology Vol 8:207-21


**Popular articles**


**Book chapters and monographs**


**Poster presentations**

- Tiwari, R., Kumar, Yogesh, Priyamvada, Saharan, M. S. And Mishra, B. 2008. Marker as-sisted approach for incorporating durable rust resistance in popular Indian wheat cultivars. Accepted for presentation in 11th International Wheat Genetics Symposium, 24-29 August, 2008, Brisbane, Queensland, Australia.

**Oral presentations**

- Presented an invited lecture on “Tackling rust resistance in Indian wheat through molecular marker aided selection” during the All India Wheat and Barley workers’ meeting held at UAS, Dharwad from August 27-30, 2005


- Ms. Priyamvada, working as SRF under the project was enrolled for her Ph. D. work on “Molecular marker mapping of leaf rust resistance gene *Lr34* in wheat”
WHEAT NETWORK (5)

Poster presentations

WHEAT NETWORK (6)

Publications in International Journals

Book chapters and monographs

Oral presentations

Other (semester thesis, master and diploma thesis, PhD thesis, etc)
- Ms Simarjit Kaur. 2011. Fine mapping of a stripe rust resistance gene transferred from diploid a-genome wheat (*Triticum monococcum l.*) into hexaploid wheat (*Triticum aestivum l.*)
WHEAT NETWORK (7)

Publications in International Journals


Publications in National Journals


Book chapters and monographs


Poster presentations

- Bossolini E., Wicker T., Knobel P., Keller B. Comparison of an orthologous locus in the small grass genomes rice and Brachypodium: Implications for grass genome annotation and wheat genome analysis. 5th Plant Genomics European Meetings, Venice (Italy), 11-14 October 2006
- Bossolini E., Krattinger S., Keller B. Development of SSR markers specific for the Lr34 resistance region of wheat using sequence information from rice and Aegilops tauschii. 5th Plant Genomics European Meetings, Venice (Italy), 11-14 October 2006

Oral presentations
