

**Session-Wise List Of The Abstracts**

- 1: Metabolic Regulation And Biomolecules
  - 2 : Metabolic Engineering For Crop Quality Improvement
  - 3 : Biomolecules In Biotic And Abiotic Stress Tolerance In Crop Plants
  - 4 : Plant Products As Therapeutics
  - 5 : Enzymes And Enzyme Technology
  - 6 : Phytochemicals And Nutraceuticals In Human Nutrition And Health
  - 7 : Biotechnology For Crop Improvement
  - 8 : Biomolecules In Amelioration Of Clinical Disorders
  - 9 : Immunodiagnostic In Human Health
  - 10 : Public Private Partnership For Food And Nutritional Security
  - 11 : Nanotechnology In Agriculture And Medicine
  - 12 : General Session
- SPECIAL LECTURE ON February 20, 2010 (Morning)

**1: Metabolic Regulation And Biomolecules**

S G Sharma	Specially rices and value addition for profitability and health benefits	talk	IL.1.1
<u>G.P.Srivastava</u>	Naturally occurring toxic biomolecules in grain legumes	Talk	IL.1.2
<u>Dipankar kalita</u> , R.C.Borah	Effect of pesticide on the quality of tea ( <i>Camellia sinensis</i> (L.) O Kuntze)	O	O.1.1
R.G. Upadhyay, abha chaun, G.L.Bansal, Anita Singh, <u>J.k. sharma</u>	Effect of bioregulators on growth, biochemical parameters, enzyme activity and yield of soyabean under north western himalayas	O	O.1.2
R.M. Mathur, Anuradha Varshney	Signalling and control processes of nitric oxide in biological systems	p	P.1.1
Ashwani K Rai, Aparna Rai	Pyrophosphate dependent glycolytic reactions in salt-stressed cyanobacterium <i>Anabaena fertilissima</i>	p	P.1.2

## 2 : Metabolic Engineering For Crop Quality Improvement

<u>Rajinder S Ranu</u>	Metabolic Engineering for improvements in crops	Talk	IL.2.1
<u>R. Srinivasan</u>	T –DNA insertional mutagenesis: a versatile tool for identification & cloning of genes and promoters in plants	Talk	IL.2.2
L. SINGH, M. mohan, K. Singh, A. Prasad	Response of sulphur and calcium to yield and quality characteristics of groundnut ( <i>Arachis hypozea</i> L. )	O	O.2.1
<u>C.P. Awasthi</u> , Y.S. Dhaliwal, R.P.Dua and Diksha dogra	Evaluation of nutritional quality of promising pseudocereals and food legumes of himachal pradesh	O	O.2.2
Bhupendra N Tiwary	Understanding microbial diversity as a tool for agri-technology	O	O.2.3
<u>YS Dhaliwal</u> , Reena kaushal, Ranjana verma	Nutritional quality and value addition of shakarpara and new castle varieties of apricots grown in himachal pradesh	O	O.2.4
Hemlata pandey, <u>Vinita singh</u> , Rashmi singh	Quality attributes of oven dried and freeze dried papaya powder	O	O.2.5
Naveen Arora	Allergenicity assessment of genetically modified foods	O	O.2.6
<u>R Verma</u> , M. Awasthi, R. Modgil, YS Dhaliwal	Kachnar ( <i>Bauhinia variegata</i> ): a potential health food	p	P.2.1
<u>Mamta sahu</u> , Mohd. Akram, P.S.Kendurkar	Interpopulation variability among <i>Jatropha curcas</i> L. accessions revealed by RAPD markers	p	P.2.2
<u>Ashwani kumar</u> , Manoj singh & Lallu singh	Quality evaluation of some genotypes/ varieties of baby corn for nutritional purposes	P	P.2.3
<u>Manoj singh</u> , madhu vajpeyi , P.k.singh	Oil content and quality of sesame genotypes/varieties as influenced by seasons	p	P.2.4
Rishi thakur, C.P. Awasthi, Nageswer Singh	Biochemical studies of some promising Buck wheat ( <i>Fagopyrum esculentum</i> moench) genotypes of himachal pradesh	p	P.2.5
<u>Ashutosh K. Rai</u> , Shailesh K. Shahi, Madhu B. Tyagi, R. P. Sinha, Ashok Kumar	Physiological and molecular characterization of plant growth promoting Rhizobacteria isolated from wheat and rice fields	p	P.2.6
<u>D.Dhurga</u> , N.Uma Maheswari,	Metabolic engineering of plant volatiles	P	P.2.7
S.D. Dubey, R.L. Srivastava	Studies on fatty acids, iodine value and their correlations in exotic germplasm of linseed ( <i>linum usitatissimum</i> L)	p	P.2.8
<u>Shio Prasad Yadav</u> , M.M. Agrawal	Integrated effect of rhizobium and PSB with different levels of phosphorus and sulphur on lentil crop	p	P.2.9
<u>K.S. Chandel</u> , Tirtha Raj, N.K. Pathania, Sonia Sood and D. badyala	Genetic studies of biparental progenies for root yield, quality traits and breeding for low nitrate content in radish ( <i>Raphanus sativus</i> L.)	p	P.2.10
<u>K.S. Chandel</u> , Sanjeev naryal, N.K.Pathania,	Detection of additive dominance and epistatic component of genetic variation for root yield and	p	P.2.11

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Sonia Sood, J.K. Sharma	quality traits using European and Asiatic testers in radish ( <i>Raphanus sativus</i> L.)		
J K Srivastava	Genetic analysis for some quality and physiological characters related to productivity in wheat ( <i>Triticum aestivum</i> L.)	P	P.2.12
Satvir kaur, Sarbjit kaur, A K gupta, Narinder kaur	Biochemical evaluation of chickpea cultivars for nutritional and antinutritional traits	P	P.2.13
Reetu Mehta, diwakar singh, M.K. Bhalala, J.G. Talati, R. Bhatnagar	Biochemical studies in some muskmelon ( <i>CUCUMIS MELO</i> L.) genotypes	p	P.2.14
Diwakar singh, reetu Mehta, J.G. Talati	Rapid laboratory tests for rice ( <i>ORYZA SATIVA</i> L.) varietal identification	p	P.2.15
Robin Chandra paramanik, B.K. Chikkaswamy, Achinto Parmanik	RAPD marker studies in some medicinal plant	P	P.2.16
B.K. Chikkaswamy, Robin Chandra paramanik, , Achinto Parmanik	Application of Diazotroph & phosphoorganism to mulberry	P	P.2.17
Hossein ramzan nezhad, Debojyoti guha roy, achinto pamanik	Isolation, spectroscopic analysis of mixture of curcuma & ginger	P	P.2.18
Mahak Singh, Lalta Prasad, C.N.Mishra, R.K.Dixit , S.B.L. Srivastava	Character association for oil content , seed yield and its contributing attributes in Indian mustard	P	P.2.19
S.B.L.Srivastava, M.S.Chandel,C.N.Mishra, ranjeet, R.K.Dixit	Studies on variability, heritability and genetic advance in okra ( <i>Abelmoschus esculentus</i> (L.) Moench)	P	P.2.20
Rakesh Babu, P.S. Kendurkar	Effect of season on oil content and oil quality of groundnut( <i>A. hypogaea</i> ) varieties	p	P.2.21
Rudra nath, R.p. Singh, Ashish saini	Influence of sulphur fertilizers on oil quality and fatty acid composition of linseed( <i>L. usitatissimum</i> L.) oil	p	P.2.22
Nand kumar, Madhu Vajpeyi	Biochemical evaluation of Brassica sps. Cultivars for seed, oil and cake	p	P.2.23
A B Singh, A.K.Tripathi, Muneshwar singh, A. Subba rao	Nutritional quality of wheat grains under long term fertilizer experiments	p	P.2.24
Atul Pankaj, RP Singh, Pratibha Singh	Influence of sulphur on quality traits of mustard	p	P.2.25

### **3 : Biomolecules In Biotic And Abiotic Stress Tolerance In Crop Plants**

<u>Anil kumar gupta</u>	Biochemistry of abiotic stress tolerant and susceptible genotypes	Talk	IL.3.1
<u>V.K. Singh, S. Prasad, K.N. Singh, S.Dixit</u>	Appearance of novel protein in developing grain of wheat in response to heat stress condition	o	O.3.1
<u>S.das, B.G.Unni, M. Bhattacharjee, A. Das chutia, M.Das, S.B.Wann, P.K. Baruah, T.Bora</u>	Environmental pollution :impact of contaminant uptake by vegetables on central metabolic pathway- a case study in Assam	0	O.3.2
<u>Rajan katoch, Anita Singh</u>	Plants products as arsenal for control of different categories of pathogens	o	O.3.3
<u>R. Krishnakumar, P.K. Ambily, T.C. Sujisha, James Jacob</u>	Hormones and oxidative stress in <i>Hevea Brasiliensis</i>	o	O.3.4
<u>Molly Thomas, M.B. Mohamed Sathik, saha,T. , James Jacob</u>	Gene expression studies in drought stressed <i>Hevea Brasiliensis</i> :a dd-RTPCR approach	O	O.3.5
<u>Alaknanda goswami, Bikash K Chakraborty, Rahul Banerjee, Sanghamitra Raha</u>	Stress response in rice is governed by prior experience of similar or different forms of stress	O	O.3.6
<u>Rajendra prasad, Madhu bajpayee, S.B.L.Srivastava</u>	Biochemical basis of resistance against alteration blight of rapeseed –mustard	O	O.3.7
<u>Rajan katoch, Anita Singh</u>	Plants products as arsenal for control of different categories of pathogens	o	O.3.8
<u>SP Gawali, A A Kale, AS Jadhav, US Dalvi, NS Kute</u>	Studies on levels of some antioxidant enzymes and proline accumulation in field growth chickpea cultivars in response to imposed water stress	O	O.3.9
<u>S.K.S. Parihar, N.S. Kushwaha</u>	To induce salt tolerance in rice ( <i>Oryza sativa</i> ) by soaking seeds in different bio-regulators for sowing under sodic soil	p	P.3.1
<u>P.K .Jain, Amit deokar, Vishwajith kondawar, Rajeev K. Varshney, R. Srinivasan</u>	Identification of differentially expressed genes in chicken pea( <i>Cicer arietinum L.</i> ) under drought stress	p	P.3.2
<u>Sanjay chaudhary, anjali chaudhary</u>	Resistance to aflatoxin B1 production by <i>A.parasitic</i> in <i>Zea mays L.</i> as identified by protein profiles.	P	P.3.3
<u>Manisha Mishra</u>	Plant responses to abiotic stresses: heavy metal – induced oxidative stress	P	P.3.4
<u>J.J. Dhruve, D.N. Vakharia, N.J. Patel</u>	Effect of benzyl adenine on groundnut under water stress at various crop growth stages	P	P.3.5
<u>J.J. Dhruve, D.N. Vakharia, U.K. Kandoliya</u>	Role of benzyl adenine in alleviating water stress effect in groundnut ( <i>Arachis hypogaea L.</i> )	P	P.3.6
<u>Rattan deep singh, Chandan P Kaur, Juhi Mishra, Aradhana</u>	Effect of heavy metal on germination and peroxidase activity of <i>Phaseolus vulgaris</i>	p	P.3.7

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Nupur Sinha	Isolation & characterization of antioxidant protein from leaf extracts of <i>Murraya koenigii</i> (L.) spreng (Curry Leaf)	p	P.3.8
P.N. Singh, Peeyush Kant Singh, Sachin Singh	Diversity in soil chemical fertility of waterlogged areas	p	P.3.9
Madhu Vajpeyi, R.N. Dubey	Effect of moisture stress on oil content and oil quality of linseed ( <i>Linum Usitatissimum</i> L.)	p	P.3.10
Sareeta Nahakpam, Kavita shah	Changing patterns of enzyme ascorbate peroxidase and glutathione reductase isoforms under combined effect of cadmium and heat stress	P	P.3.11
Samantha Pyngrope , R.S. Dubey	Differences in antioxidant capacity of rice plants differing in water stress tolerance subjected to progressive levels of PEG induced water stress	p	P.3.12
Poonam Pandey, R.S. Dubey	Interactive effects of aluminium toxicity and water stress on seedling vigour and proteomic changes in rice plants	p	P.3.13
Kumari Bhoomika, R.S. Dubey	Aluminium tolerance in rice seedlings is associated with a strong antioxidant defence mechanism	p	P.3.14
Sarita Srivastava, R S Dubey	Nitric oxide reduces manganese toxicity by preventing oxidative stress in rice leaves	p	P.3.15
RC Bhattacharya, Varnika Bhatia	Wound and methyl jasmonate iducibility of HypSys glycopeptides from Potato	P	P.3.16
Lallu, SBL. Srivastava	Variability in thermotolerance at juvenile stage in mustard genotypes	P	P.3.17
A. Chakravarty, N. Karmakar, P. Mukherjee, PK Bandopadhyay	Studies on the effect of Salinity and Moisture Stress on Tomato	p	P.3.18
Pranab k Bandopadhyay, S. Shil, Nilima Karmakar, Arunabha Chakravarty	Cadmium toxicity and its amelioration by micronutrients and organic acids and its expression in productivity of wheat ( <i>Triticum aestivum</i> )	p	P.3.19
Upama Mishra, Ashotosh Rai, M. Singh, H.P. Pandey, R. Kumar, M Rai	Gene expression profiling for biochemical and molecular mechanisms of drought tolerance in tomato ( <i>Solanum lycopersicum</i> )	p	P.3.20
Ashutosh Rai, U.Mishra, M.Singh, R.S. Dubey, RK Singh, RajeshKumar, M rai	Physiological and biochemical parameters for screening of heat tolerant line in tomato ( <i>Solanum lycopersicum</i> )	p	P.3.21
Namrata Jaiswal, A. Rai, D. Dutta, M.Singh, RS Dubey, Ashutosh Rai, AB Rai, M.Rai	Detection and expression of coat protein gene of <i>tomato leaf curl Palampur virus</i> and its impact on biochemical alterations in infected plants	p	P.3.22
I. Ghosh, Akansha Singh, Brajesh Sinha	Host-pathogen interaction: the role of phenylalanine-lyase in wheat as defense response to <i>Alternaria triticina</i>	p	P.3.23
Vijay Pratap Singh, Ruchi Bansal, Jai P Srivastava	Biochemical changes in pigeonpea under waterlogging stress of early vegetative phase	p	P.3.24
Madhurima dikshit , pooja doshi, Vaishali bane	Effect of $\gamma$ -irradiation on nutrients , antinutrients, phenolic antioxidants and in vitro proteins digestibility in soyabean oilcake (MACS-13)variety	P	P.3.25
RC Wadekar, AA Kale, SV Munjal, NS Kute, PK Lokhande	Inveolvement of some of the defence responsive enzymes in <i>Fusarium</i> wilt tolerance in chickpea cultivars	p	P.3.26

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T Arun Kumar, AS Jadhav, AA Kale, <u>SV</u> <u>Pawar</u> , VM Jambhale	Molecular and biochemical analysis for drought tolerance in pearl millet ( <i>Pennisetum glaucum</i> L)	p	P.3.27
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#### 4 : Plant Products As Therapeutics

<u>S.S. Kadam</u> (abs not rec.)	Biomolecules in noni and their effects on health	Talk	IL.4
<u>Abhay K.Pandey</u> , Ajay kumar mishra , Amita mishra	Antibacterial ,antifungal and antioxidant activities of cinnamomum tamala	o	O.4.1
<u>Vikas Sharma</u> , A.K.Tiku	Investigation of Alstonia scholaris for in vitro anticancer properties	p	P.4.1
Sudhanshu S.Yadav, Elesela Srikanth, S. Rathaur , Sumit Sethi, C M Chaturvedi	Antifilarial activity of a herbal extract on the survival of bovine filarial parasite Setaria cervi	p	P.4.2
<u>H.Bashir</u> , T.Khan , A. Masood, R. Hamid	Isolation, purification and characterization of a lectin from a local kashmiri variety of soyabean	P	P.4.3
<u>M. Sravanthi</u> , K.P.J. Hemalatha	Antioxidant and antibacterial and antifungal activities of leaf extract of Wrightia Tinctoria and antigonon leptopus	P	P.4.4
<u>M. Padmaja</u> , K Hemalatha	Evaluation of antioxidant activity of aqueous extracts of Adhatoda vasica and Asystasia genetica	P	P.4.5
<u>Poonam yadav</u> , A.R. Kumar	Nutritional evaluation of value added products prepared from addition of fresh drumstick leaves	P	P.4.6
<u>Gaurav verma</u> , virendra k.Dua	Anti – protozoal activity of some plants from garhwal region of north west himalaya	P	P.4.7
<u>Himanshu Agrawal</u> , Shashi Ranjan, G. Kishor, J.P.Bhatt, Sanjay Gupta	Antimicrobial potential of <i>Allium humile</i> against pathogenic bacterial isolates	p	P.4.8
HB Singh, <u>Brahma N Singh</u> , SP Singh, CS Nautiyal	<i>Trichoderma harzianum</i> : A novel candidate for modulating natural antioxidants in soyabean seed matrix by solid-state bio-processing (SSB)	p	P.4.9
<u>Brahma N Singh</u> , Dhan Prakash, R.L Singh, BK Sharma, HB Singh	Oxidative DNA Damage protecting activity, antioxidant and anti-quorum sensing potentials of <i>Moringa oleifera</i>	p	P.4.10
<u>Brahma N Singh</u> , BK Sarma, HB Singh	Chemoprevention of N-nitrosodiethylamine-induced liver tumorigenesis by bioactive molecules from <i>Acacia nilotica</i> bark	p	P.4.11

## 5 : Enzymes And Enzyme Technology

Th. Premila Devi, S. Kunjeshwori Devi, <u>L.R. Singh</u>	Molecular characterization of a thiol protease from pineapple crown leaf – a possible commercial source of bromelain preparation having phytotherapeutical properties	Talk	IL.5.1
Dr. V.H. Mulimani	Biotechnological applications of $\alpha$ -Galactosidase in food industries	Talk	IL.5.2
<u>Maria luiza V.Oliva</u> , <u>Misako U. Sampaio</u>	Action of plant proteinase inhibitors on enzymes of physiopathological importance	Talk	IL.5.3
Lata Sheo Bachan Upadhyay	Production of high glucose syrup by gelatin immobilized beet root amylase	O	O.5.1
Qayyam Hussain	Aromatic pollutants treatment by peroxidase enhanced in the presence of redox mediators	O	O.5.2
<u>Ashok kumar</u> , Sandeep K. Sharma, suman	Enzyme sensors for rapid diagnosis of human diseases	O	O.5.3
<u>Anurag varshney</u> , Manish kumar V.V b shwari, mou chatterjee, s. sharma, ri dev , punit k. srivastava, s g. dastidar, a ray, pk bhatnagar	Development of genetically encoded luciferase based biosensor for matrix metalloproteases	O	O.5.4
<u>Robin joshi</u> ,renu rawat, Ashu gulati	Application of purified tea shoot $\beta$ -glucosidase in beverages and food	p	P.5.1
Ashok K.Singh, Hanuman Ram	Influence of neem products on nitrate reductase activity in soil	p	P.5.2
<u>Siddhartha Singh</u> , Jay Prakash Verma, Moushumi Ghosh, P.K.Srivastava	Identification and characterization of cellular locus of enzymes involved in Limonin biotransformation in <i>Pseudomonas putida</i>	p	P.5.3
<u>Rohit sahu</u> , abhishek singh	In silico evaluation of ligand against suri receptor (Diabetes mellitus)	P	P.5.4
<u>Suprabhat mukherjee</u> , Kalyan mukherjee, Bidyut Bandyapadhyay	Isolation and partial purification of polyphenol oxidase from oyster mushroom	p	P.5.5
Anupama srivastava, <u>Arun srivastava</u>	Hydrolysis of potato and tapioca starch by bacillus coagulans at elevated temperature	P	P.5.6
<u>Praveen kumar S K</u> , Mulimani VH	$\alpha$ -galactosidase production from cells of aspergillus oryzae in calcium alginate gel beads	P	P.5.7
<u>Nivedita jaiswal</u> , Om prakash	Studies on the extraction , purification and properties of amylase from Glycine max seeds	p	P.5.8
<u>K. Awneesh Kumar</u> , Chandan Singh, GRK Rao, MV Jagannatham	Crinumin, a novel substitute of chymotrypsin may control pancreatic insufficiency and inflammation: Purification and Characterization	P	P.5.9
<u>Rajesh K Pandey</u> , Om prakash, Mahe Talat	Comparative study of Soluble and agarose entrapped pumpkin urease	p	P.5.10
<u>Ajeet K Rai</u> , Jagdish Singh, Om Prakash,	Isolation and Biochemical Characterization of Myrosinase from cauliflower ( <i>Brassica oleracea</i>	P	P.5.11

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Mathura Rai	var Botrytis)		
Priyanka Dwivedi, <u>Sudhir Singh</u>	Process optimization for Hydrolysis of whey for manufacture of sports beverage	p	P.5.12
<u>Rajni Singh</u> , Rajshree Saxena	Enzymatic cleansing of contact lens by neutral Protease from Bacillus sps.	P	P.5.13

## **6 : Phytochemicals And Nutraceuticals In Human Nutrition And Health**

<u>Prof (Mrs.) Narinder Kaur</u>	Biosynthesis of fructans and their role in health and nutrition	Talk	IL.6.1
<u>Akbar masood</u> , Rabia hamid	Dietry lectins as toxicants	Talk	IL.6.2
Suman P.S. Khanuja	Phytochemicals for Human health care	Talk	IL.6.3
S. Arya, L.Singh, M. Bihari, K. Singh, A. prasad	Biomolecules and nutraceutical qualities of guava products in human nutrition and health	O	O.6.1
<u>R.C. Gupta</u>	Natural substances & health care; Taurine & analogues: nutraceuticals and functional food component	O	O.6.2
Sanjay Guleria, A.K.Tiku, <u>Gurjinder Singh</u> , Apurva Koul, Subhash Rana, S.K. sharma	Antioxidant activity and hplc determination of phenols in four different solvent extracts of Terminalia chebula – A probable radioprotector	o	O.6.3
<u>Gurpreet kaur</u> , Ravinder kumar malik, Arun Bhardwaj, Naresh Kumar	Effect of bacteriocins on vancomycin resistant <i>Enterococcus faecium</i>	o	O.6.4
Siya ram, <u>R.P.Singh</u>	Assessment of mineral profile & anti-oxidant vitamins in various varieties of ripened mango ( <i>M. indica</i> L.) fruits	o	O.6.5
R.P.Singh, A.B.Abidi, <u>Pratibha Singh</u>	Evaluation of terpenoids at various stages in tumeric leaf oil	o	O.6.6
<u>P. Gurumoorthi</u> , K. Janardhanan	Effect of dry heating and gamma irradiation on reducing anti-nutrients in velvet bean	O	O.6.7
R.G.Sud, Arti Ghabru, T.K.Bhat, Rohit Sharma	Seasonal variations of phenolic compounds and antioxidant potential in Kangra tea ( <i>Camella sinensis</i> L.) O Kuntze	O	O.6.8
<u>Nageswer Singh</u> , Simpal, R.G. Sud, Arti Ghabru	Seasonal variations of polyphenol oxidase activity in tea ( <i>Camella sinensis</i> L.) O Kuntze)	o	O.6.9
<u>B. Andallu</u> , S. Mahalakshmi	<i>In vitro</i> and <i>in vivo</i> antioxidant efficacy of curry leaves	O	O.6.10
L. Inaotombi devi, S. <u>Kunjeshwari</u> , L. R. Singh	Molecular characterization of an isolectin from vicia tetresperma(L.) schreber exhibiting mosquito larvicidal activity and food toxicity	O	O.6.11
<u>Meera srivastava</u> , L.P.tiwari, Charul kanchan	Nutritional value of some wheat varities as affected by sowing dates	o	O.6.12
<u>Dhan Prakash</u>	Role of Phytochemicals in Nutraceuticals and functional Foods	o	O.6.13
<u>Sanjay guleria</u> , A.K. Tiku, gurjinder singh, apurva koul, Subhash Rana, S.K.Sharma	Phenolic phytochemicals and antioxidants activities of some north – western Himalayan medicinal plants	P	P.6.1
<u>C.U. Rajeshwari</u> , B. Andallu	<i>In vivo</i> antioxidant effect of coriander ( <i>Coriandrum sativum</i> ) seeds in NIDDM patients	P	P.6.2
<u>Kundan Prasad</u> , Ganga Bisht, Shivani Joshi	Quantitative Chemical investigation and nutritive values of <i>Euphorbia hirta</i> Linn	p	P.6.3

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<u>Sangita sood, Suruchi Katoch, Manranjan Kalia, Neena</u>	Nutritional improvement of amla squash with the blend of ginger	P	P.6.4
<u>D.D. Joshi</u>	Aromatherapy and human health	P	P.6.5
<u>P.S. Kendurkar, Neeti singh</u>	Studies on certain nutritional characteristics and functional properties of protein isolates prepared from green gram varieties	P	P.6.6
<u>Anurag singh</u>	Antibacterial screening and phytochemical analysis of some medicinal plants	P	P.6.7
<u>Arti Ghabru, R.G.Sud</u>	Preparation and properties of lantadene A Complex with bovine serum albumin	p	P.6.8
<u>Sunil mistry, Pradeep Kumar Panda, sourav paul, S.N.Das</u>	Evaluation of safety profile of <i>Stevia rebaudiana</i> bertonii on human semen: an in vitro study	p	P.6.9
<u>Sudhir kumar tomar, sarang dilip Pophaly, Prashant</u>	Probiotic potential of vitamin B12 producing propionibacteria	p	P.6.10
<u>YS Dhaliwal, R Verma, RP Dua CP Awasthi</u>	Physical, chemical and nutritional profile of amaranth grown in HP and its utilization in biscuits preparation	p	P.6.11
<u>Biswapriya B Misra, Satyahari dey</u>	Biosynthesis of sesquiterpenoid phytomedicinals in sandal wood: the molecular approach	p	P.6.12
<u>SP Singh, Brahma N Singh, Akanksha Singh, HB Singh</u>	<i>Trichoderma</i> based organic farming to enhance nutritional quality and natural antioxidants in tomato	p	P.6.13
<u>Vibha Singh</u>	<i>Study on dietary pattern of holy-persons in navratri</i>	p	P.6.14
<u>Dhan Prakash, Neeraj Kumar, BN Singh, HB Singh</u>	Phytoestrogens: The phytochemicals of nutraceutical importance	P	P.6.15
<u>Dhan Prakash, Neeraj Kumar, Pankaj kumar</u>	Nutrigenomics: The next frontier in nutraceuticals	P	P.6.16
<u>Dhan Prakash, Garima upadhyay BN Singh, HB Singh</u>	Antioxidant and free radical scavenging activities of agri-wastes from soybean ( <i>Glycine max</i> )	p	P.6.17
<u>Amit Kumar Dixit, Vineet Kumar, Anita Rani, JC Manjaya, Deepak Bhatnagar</u>	Gamma irradiation induced enhancement of neutraceutical biomolecules in soybean with seed coat color	p	P.6.18
<u>Aparana Sharma, Anupama Sandal</u>	Composite flours: The concept and scope	p	P.6.19

### 7 : Biotechnology For Crop Improvement

<u>Jitendra P Khurana</u>	Genome-wide Expression analysis to identify genes controlling transition to flowering and panicle development in rice	Talk	IL.7.1
<u>Amitava Mitra</u>	Direct Repeat Induced gene silencing and its role in plant functional genomics	Talk	IL.7.2
Kumar Paritosh, Deepak Pental and <u>Pradeep Kumar Burma</u>	Development of a <i>barnase-barstar</i> based transgenic technology for hybrid seed production in cotton ( <i>Gossypium hirsutum</i> ): identification and isolation of tapetum specific promoters	Talk	IL.7.3
Smita rastogi, brijesh Pandey, Poonam Gupta, Archana Gupta, <u>U.N. Dwivedi</u>	Genetic manipulation of Lignin for Biotechnological applications with especial reference to <i>Leucaena leucocephala</i> , a nitrogen fixing tree legume.	Talk	IL.7.4
Anshuman Sharma, <u>K R Koundal</u>	Isolation and characterization of plant insecticidal genes from mungbean ( <i>Vigna radiata</i> L.) from development of transgenic crops	Talk	IL.7.5
<u>Priyankar raha</u> , R.K.Singh, suneeta Jangde, Triyagi Nath	Isolation and characterization of <i>Bradyrhizobium</i> nodulating genes inducer flavanone from mung bean ( <i>Vigna radiata</i> L.)	o	O.7.1
Md. Shamim, <u>K.N. Singh</u>	Molecular approaches for controlling sheath blight in rice	p	P.7.1
Garima Pandey, <u>Garima yadav</u> , Dr. K.N. Singh	Identification of maintainer and restorer in hybrid rice by using DNA marker	p	P.7.2
Deepika rohtagi, Divya choudhary, Atul kakrana, anil Malik, <u>Anil sirohi</u> , P.K.Jain, Srinivasan, K. Subramaniam	RNAi mediated gene silencing as a novel strategy in understanding plant nematode interactions in Arabidopsis and tomato	p	P.7.3
Saumya Gaur, <u>Namrata Malik</u> , Norang P. Singh, S. Singh, R. K. Singh	Effect of Inoculation of Bacterial Endophytes on Growth of maize ( <i>Zea Mays</i> L.) plants in presence of nitrate	p	P.7.4
<u>A.K. SHAH</u> , J.G. TALATI	Varietal identification of Pearl Millet ( <i>Pennisetum glaucum</i> L.) hybrids and parental lines through molecular markers.	p	P.7.5
Sudhakar Pandey, <u>Astik Jha</u> , Smita Singh, Mathura Rai	Assessment of physico-chemical parameters of ash ground genotypes and its relationship with preserve quality	p	P.7.6
Naveen Khanal, MK Singh	Agronomic biofortification for nutritional security: A Complementary approach for genetic biofortification	p	P.7.7
Smita Singh, Sudhakar Pandey, Richa Raghuwanshi, Aastik Jha, Major Singh	Genetic and molecular studies for fruit quality traits in muskmelon ( <i>Cucumis melo</i> . L.)	p	P.7.8

### 8 : Biomolecules In Amelioration Of Clinical Disorders

<u>Debi P. Sarkar</u>	Role of cell signaling in the regulation of entry of sendai virus into host cells : application in targeted gene/ drug delivery	Talk	IL.8.1
<u>M .P.Singh</u>	Pyrogallol –induced hepatotoxicity and natural antioxidants	Talk	IL.8.2
Mohd f. ullah, uzma shamim, sarmad hanif , asfar S azmi, showket h bhat, <u>S.M. Hadi</u>	Oxidative breakage of cellular DNA by plant polyphenols : A putative mechanism for anticancer properties	Talk	IL.8.3
<u>Siyaram pandey</u> , carly griffin, sudipa chatterjee, pamela ovadje, james mculty	Anti cancer activities of natural extracts and compounds :selective activation of apoptosis in cancer cells by compounds extracted from spider lily , dandelion,turmeric	Talk	IL.8.5
Patrick lawinger, S singh, xiaohua su, yumi watanabe , vidya gopala-krishnan, Mo. kagalwala, <u>Sadhan majumder</u>	Molecular regulation of cellular flexibility determines normal development and cancer	Talk	IL.8.6
<u>Alaka srivastava</u>	Use of recombinant protein for human health	Talk	IL.8.7
<u>Neeraj Kaushik-Basu</u>	Hepatitis C: Targets and Therapies	Talk	IL.8.8
<u>R K Singh</u> , Ranjana Singh and Sushma Singh	Chronomics and Chronobiology in Health and Disease	Talk	IL.8.9
<u>Thyagaraju K</u> , Padmavathi K, D. Sreenivasulu, SK Ruxanabugum	Analysis of chemical damage in liver of chick embryo under acrylamide and cadmium chloride stress	Talk	IL.8.10
<u>Shymal K Goswami</u>	Cardiovascular diseases and antioxidant therapy: Hope and Hype	Talk	IL.8.11
Shaik sameena Fatima, kasetti ramesh babu, <u>Chippada appa Rao</u>	Antidiabetic activity of ethyl acetate: isopropanol (1:1) fraction of <i>vernonia anthelmintica</i> seeds in streptozotocin induced diabetic rats	O	O.8.1
B. Sharma	Molecular mechanisms involved in antiHIV -1 drug resistance	O	O.8.2
Sabiha Fatima, Riaz Mahmood	Protective role of vitamin C on potassium dichromate induced nephrotoxicity	O	O.8.3
<u>Shalini Maheshwari</u> , Rashmi Tripathi, Supriya gupta, Sarojini rai, Poonam c. mitttal Manju Verma	Effect of iron supplementation on oxidative stress indices of non- anemic pregnant women	O	O.8.4
<u>Naheed banu</u> , Irfana Muqbil, Shoa Naqvi, A.S. Azmi	Stress decreases the antioxidant potential of reseveratrol and melatonin	o	O.8.5
S. Arya, R. Kumar, L.k. Mishra, M. Bihari, A.prasad	Effect of bioregulators and micronutrients on biomolecules in amelioration of clinical quality of garlic	p	P.8.1
<u>Pankaj kumar singh</u> , navneet agnihotri	The role of oxidative stress in the prevention of colon cancer by the chemopreventive action of	p	P.8.2

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	fish oil		
LK Mishra, M Bihari, R Kumar, A kumar	Response of temperatures and containers to bimolecular quality components of mango pulp	p	P.8.3
Sunil Mistry, PK Panda, <u>Sourav paul</u> , KR Dutta, J Jena	Anti- inflammatory effect of Psidium guajava linn on acute and chronic inflammation in rats	p	P.8.4
<u>Priti Srivastava</u> , M dikshit, V.B. Singh	Responses elicited by hydrogen peroxide in aorta from normtensive rats , endothelial modulation and mechanism involved	P	P.8.5
<u>Santosh Nagwani</u> , Yamini B. Tripathi	Hepatotoxicity of tubers of Indian Kudzu (Pueraria tuberosa) in rats: Role of oxidative stress and iNOS activation	p	P.8.6
<u>Raj pathania</u> , Binny sharma, shubhangana sharma	Effect of stressors on health of pregnant women	P	P.8.7
<u>Snagita sood</u> , <u>Manranjan kalia</u> , <u>Sakshi Gupta</u>	Assessment of hypoglycemic and hypocholesterolic effect of Ficus lacor	P	P.8.8
<u>Ghanshyam upadhayay</u> , M n tiwari, A Jyoti , Rishi shanker, Om Prakash, M p singh	Effect of silymarin on the hepatic gene expression profile of pyrogallol–exposed mice	P	P.8.9
Surabhi Bajpai, R.K. Singh	A study on impending role of connexins in diabetic wound healing	P	P.8.10
<u>Manasa K Nayak</u> , Sunil K Singh, Kailash K Gupta, D Das	Anti-platelet activity of anti-cancerous drug: Tamoxifen	p	P.8.11

**9 : Immunodiagnostic In Human Health**

S Rathaur, <u>Saurabha Srivastava</u> Eva Liebau, Patrick hertel, I A ungitho, El srikanth	Cloning and expression of Brugia malayi HSP70 and its evaluation in serodiagnosis of human lymphatic filariasis	p	P.9.1
V. Kumar, A. srivastava, j.gour, S. Srikrishna, H.P.Pandey, R.K. Singh	Identification of urinary leishmanial antigens for their diagnostic and prognostic potentials	P	P.9.2
<u>Sangeeta Singh</u> , Usha, Sanjay Singh	Coeliac disease associated antibodies in patients with psoriasis	p	P.9.3
A.Srivastava, R.K. Singh, HP Pandey	Recent advancements in the Diagnosis of Visceral Leishmaniasis	p	P.9.4

**10 : Public Private Partnership For Food And Nutritional Security**

A.K. Srivastava, Amity	Public Private Partnership in challenging scenario of commercialization of technology and product Development	Talk	IL.10.1
<u>Vedpal singh malik</u>	Small biomolecules , big money: the multi billion dollar biotechnology industry	Talk	IL.10.2
<u>V. Sowbhagya rani</u> , K. Uma Devi, G. Indira Priyadarshini, NB Chandrakala,Thyagaraju K	Patents on life forms –biotechnological implications	O	O.10.1
S. Baishya, K. Pathak, A. M. Baruah and <u>S. Rathi</u>	Starch and protein profile of hill rice cultivars of Assam	O	O.10.2
A. J. Bora, R. Gogoi, <u>S. Rathi</u> , S. Baishya	Biodegradation of substrates during mushroom growth and possibility of its recycling	p	P.10.1
<u>Neena vyas</u>	Direct selling of health related products by women entrepreneurs	p	P.10.2
S. Sharma, <u>A.K.Saxena</u> , B.S.Gill, Navneet aggrawal, pankaj rathore	Assessment of different genotype of soyabean (glycine max L.) for quality under different environments in Panjab	P	P.10.3

**11 : Nanotechnology In Agriculture And Medicine**

<u>Dwijendra Gupta</u> , Shanthi Sundaram, M Dwivedi V Tripathi E Smolenova A. Hasilk	Lysosomal storage Disease : Application of nanophosphor nanogold coated immunoconjugates in affinity purification of lysosomal transport vesicles	Talk	IL.11.1
<u>BM Prasanna</u>	Nanotechnology and its applications in agriculture	Talk	IL.11.2
<u>U S Rai</u> , P C Ray, GK Darbha	Nanoparticle based surface energy transfer probe for environmental protection	o	O.11.1
Madhukar Varshney, <u>Anuradha Varshney</u>	Nanotechnology for improved biosafety	p	P.11.1
<u>N.Uma Maheswari</u> , D.Dhurga	Development of a highly active nanoliposomal irinotecan using a novel intraliposomal stabilization strategy	p	P.11.2
<u>Mahe Talat</u> , Ashwani kumar singh, DP. Singh, Om Prakash, O.N. Srivastava	Synthesis of urea nanoprobe on functionalized gold nanoparticle	P	P.11.3

**12 : General Session**

V.K. Suri	Role of arbuscular mycorrhizal fungi (AM) in sustainable cropping systems in relation to food security	Talk	IL.12.1
Arvind Singh, Neil Gray, Angela Sherry, Ian Head	Hydrocarbon pollution: response of specific microbial communities to bioremediation strategies	Talk	IL.12.2
Durg V Singh, Saswat S Mohapatra, Harapriya Mohapatra, CK Mantri	Evolutionary linkage of emergence of sxtice in <i>Vibrio cholerae</i>	O	O.12.1
Sunjay, Vinod Kumar Singh	GASHYDRATE: FUEL RESOURCES	p	P.12.1
G.P.Srivastava, S.S.Yadav	Food and feed from water hyacinth	P	P.12.2
Preeti srivastava, S.H.Hasan	Optimization of process variable for biosorption of Pb(II) using immobilized Aeromonas hydrophila biomass in up flow column system	p	P.12.3
B.Vinoth, Naveen prakash	Biomedic attraction and electrocution of mosquitoes using normosol –R and electric field	p	P.12.4
Priti Khemariya, Sudhir Singh, Mathura Rai	Antimicrobial metabolites production in free and encapsulated cell systems of <i>Lactococcus lactis</i>	p	P.12.5
Indra Mani, Ravindra Kumar, M.Singh, NS Nagpure, B. Khushwaha, PK Srivastava, WS Lakra	Internal Transcribed spacer 2 of ribosomal DNA: A molecular marker for phylogenetic and population analysis in mahseer (Pisces : Cyprinidase)	p	P.12.6
SK Srivastava, Alok Jha, Abhishek Dutt Tripathi, Anurag R Kumar, Tanweer Alam	Optimization of parameters affecting PHB production by <i>Alcaligenes sp</i> using response surface methodology utilizing sugarcane molasses and corn steep liquor as carbon and nitrogen source	p	P.12.7

***SPECIAL LECTURE ON February 20, 2010 (Morning)***

<u>Richard R. Schmidt</u>	Lipoteichoic acids of gram-positive bacteria – Synthesis and some Biological Properties.	
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