

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

COLLEGE OF BASIC SCIENCES

CSKHPKV, PALAMPUR

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## About Department

Applications of Chemistry and Biochemistry are enormous in agriculture and allied sciences. Knowledge of these subjects finds direct application in research. The concept of functional foods, nutraceuticals and increasing food nutrition awareness have further enhanced the importance of these subjects.

The Department of Chemistry and Biochemistry is actively engaged in the human resource development through teaching and research. Every year 23 courses comprising 88 contact hours are offered in Chemistry and 28 courses comprising 83 contact hours are offered in Biochemistry to the UG and PG students of College of Basic Sciences, College of Agriculture and College of Home Science. PG programme (M.Sc. and Ph.D) in discipline of Biochemistry is also going on in the department. 90 M. Sc. and 06 Ph D. (Biochemistry) students have completed their degree since its inception in 1991.

The research interests of the faculty are Assessment of Crop Quality, Nutrition Studies, Insecticides and Pesticides Residues and Genotypes Assessment of Various Potential Crops under AICRP project. The laboratories are well equipped and there exists Central Instrumentation Laboratory facility for the researchers of the University which is utilized by various departments. The Indian Veterinary Research Institute, nad CSIR- Institute of Himalayan Bioresource Technology , Palampur is collaborating with the department in research and teaching. Six research projects on different aspects of under exploited crops; colocasia, sesame, tea, and rajmash have been accomplished.

## Head of the Department

Dr. (Mrs.) Neelam Sharma is Head, Department of Chemistry and Biochemistry. [headcb@hillagric.ac.in](mailto:headcb@hillagric.ac.in)  
Contact No. 01894-234079(O); 01894-230627 (R)

## **Mandate**

The department of Chemistry and Biochemistry works under the following mandate.

### **Teaching**

- Teaching courses of Chemistry and Biochemistry to the students of College of Basic Science, College of Agriculture and College of Home Science.

### **Research**

- Carrying out research on crops and commodities for evaluations of quality parameters and their improvement. Providing advisory services and research facilities to the M. Sc. and Ph. D. scholars of the University.

### **Extension**

- Participates in all extension activities of the University and the College of Basic Sciences

## Thrust Areas

The thrust areas of the Department are:

- Biochemical studies in relation to crop improvement and productivity.
- Assessment of crop quality (Cereals, legumes, oilseeds, medicinal plants etc.).
- Removal of commonly used pesticides from fruits and vegetables.
- Evaluation of pesticide levels.

## Faculty and Staff:

### Faculty position in the Department of Chemistry & Biochemistry

Name	Designation	E-mail
Dr. (Mrs.) Neelam Sharma	Head	headcb@hillagric.ac.in
Dr. (Mrs.) K. Mohini,	Associate Professor	kmohini@gmail.com
Dr. Nageswer Singh,	Assistant Scientist	nageswers@gmail.com
Dr. (Mrs.) Suman Sharma	Assistant Professor	sumansharma92@rediffmail.com

### Faculty position Outside the Department

Name	Designation	Place of Posting	E-mail
Dr. (Mrs.) Neelam Sharma	Principal Scientist and Head	Department of Agronomy ,Forages and Grassland Management COA,CSK HPKV Palampur	headcb@hillagric.ac.in
Dr. Rajan Katoch	Assistant Scientist	Department of Crop Improvement COA, CSK HPKV Palampur	rajankatoch@yahoo.com
Dr. Manoj Kumar Acharya	Assistant Scientist	Oil Seed research Station ,Kangra	mkacharya@gmail.com

### Ministerial and Supporting Staff

Sr.No.	Name	Designation
1.	Sh. Shakti Chand	Junior Technician
2.	Sh. Manohar Lal	Lab Helper
3.	Sh. Trilok	-do-

## List of M.Sc. (Biochemistry) students who have completed their M.Sc. degree:

Sr. No.	Name of the student & Admn. No.	Title of the Thesis	Name of Major Advisor	Date & Year of completion of degree
1.	Mr. Gorakhmal P-90-A15-M	Biochemical studies of zinc and its related enzymes in fattening lambs	Dr.B.S.Katoch	7.1.93
2.	Ms. Shailja Katoch S-91-30-03	Biochemical & nutritional evaluation of vegetable <i>Amaranthus</i> of Himachal Pradesh	Dr.C.P.Awasthi	5.8.94
3.	Ms. Vandana Pathania S-91-30-04	Biochemical evaluation of Broad Bean ( <i>Vicia faba</i> L.) cultivars in Himachal Pradesh	Dr.C.P.Awasthi	22.12.93
4.	Ms. Ashoo Sharma S-92-30-01	Biochemical studies on nitrate Assimilation Protein accumulation and Protein quality of Pea ( <i>Pisum sativum</i> L) varieties in Himachal Pradesh	Dr.C.P.Awasthi	21.4.95
5.	Ms. Kiran Rana S-92-30-02	Biochemical evaluation of broad bean ( <i>Vicia faba</i> L.) genotypes in relation to nitrate assimilation, protein synthesis and protein quality during vegetative and seed development	Dr.C.P.Awasthi	10.3.95
6.	Madhulika Sharma S-92-30-03	Biochemical basis of seed Deterioration in Onion and Carrot during storage	Dr.Brij Paul	31.8.94
7.	Mr.Sanjay Guleria S-92-30-04	Biochemical changes Associate with Resistance to Powdery Mildew Infection in Pea ( <i>Pisum Sativum</i> L.)	Dr.Brij Paul	9.9.94
8.	Ms. Anita Dhiman S-93-30-01	Influence of Phenolic compounds in nitrate assimilation, biochemical constituents and yield of broad bean ( <i>Vicia faba</i> L.)	Dr.C.P.Awasthi	6.9.96
9.	Mr.Rajan Katoch S-93-30-02	Biochemistry of the action of Eupatorium plant in animals	Dr.O.P.Sharma	12.12.95
10.	Mr.Vivak Mahajan S-93-30-03	Biochemical effect of Ageratum Plant in animal system	Dr.R.K.Dawra	3.4.96
11.	Ms. Kiran Sharma S-94-30-01	Studies on the Biochemical Action of Isolated Ageratum Toxins in Animal system	Dr.O.P.Sharma	5.2.97
12.	Ms. Vanita Kaushal S-94-30-03	Studies on the Biochemical Action of Eupatorium Toxins in the Animal system	Dr.R.K.Dawra	6.1.97

13.	Mr. Aditya Parashar S-95-30-01	Influence of Rhizobium and Phosphorus application on yield and biochemical constituents of <i>Vicia faba</i> L.)	Dr.C.P.Awasthi	20.2.98
14.	Mr. Ambesh Gautam S-95-30-02	Biochemical and Nutritional Evaluation of edible aroids in Himachal Pradesh	Dr.C.P.Awasthi	29.11.97
15.	Ms.Asha Baru S-95-30-03	Biochemical Evaluation of made Black tea of Kangra Valley	Dr.R.G.Sud	5.12.97
16.	Mr. Dev Dutt Rakesh S-95-30-04	Biochemical Studies on Tannin Degradation by <i>Aspergillus Niger</i> van Tieghem	Dr.T.K.Bhatt	5.12.97
17.	Ms. Renu Bhardwaj S-96-30-02	Isolation, Purification and Biochemical action of the Hepatotoxins of <i>Eupatorium Edenophorum</i>	Dr.O.P.Sharma	22.9.98
18.	Ms.Shweta Sharma S-96-30-03	Biochemical Studies on Microbial Biotransformation of Polyphenols	Dr.R.K.Dawra	14.7.98
19.	Ms. Sudha Prasad S-96-30-04	Biochemical and Nutritonal Evaluation of Chyote ( <i>Sechium edule</i> ) and Lungru ( <i>Diplazium esculentum</i> ) of Palam Valley of Himachal Pradesh	Dr.C.P.Awasthi	6.11.98
20.	Mr. Neeraj Sharma S-97-30-02	Effect of Phenolic Compounds on yield and Biochemical Constituents of broad bean ( <i>Vicia faba</i> L.)	Dr.C.P.Awasthi	14.9.2000
21.	Ms. Seema Samkaria S-97-30-03	Isolation and Characterization of Biochemicals of quality Significance from black tea of Kangra Valley	Dr.R.G.Sud	4.10.99
22.	Mr.Ajay Singh S-98-30-01	Biochemical Effects of Isolated <i>Eupatorium adenophorum</i> Hepatotoxin in Rats	Dr.O.P.Sharma	30.9.2000
23.	Ms. Bandna Kaundal S-98-30-03	Effect of Isoproturon on Biochemical Constituents of Different stages of Wheat	Dr.Neelam Sharma	24.4.2001
24.	Ms. Shweta Sood S-98-30-05	Biochemistry of the Antioxidant System in the Urinary Bladder	Dr.R.K.Dawra	15.1.2001
25.	Mr. Dhani Ram S-99-30-01	Biochemical Changes Occurring during storage and their Effects on the Quality of Black Tea ( <i>Orthodox</i> )	Dr.R.G.Sud	28.2.2002
26.	Mr. K.Hanumantha Rao S-99-30-02	Evaluation of Biochemical Response in Indian Mustard during white rust Pathogenesis	Dr.R.A.K. Aggarwal	19.1.2002



27.	Ms. Rita Bhardwaj S-99-30-03	Studies on Tannase of <i>Aspergillus Niger</i> van Tieghun	Dr.T.K.Bhatt	9.11.2001
28.	Ms.Smriti Sood S-99-30-04	Biochemical and Nutritional Evaluation in Rajmash ( <i>Phaseolus Vulgaris</i> L) collection of Himachal Pradesh	Dr.C.P.Awasthi	20.11.2001
29.	Ms. Diksha Dogra S-2000-30-01	Biochemical Evaluation of some cultivars of Broccoli Italica cultivars	Dr.C.P.Awasthi	4.4.2003
30.	Ms.Lenika Sagar S-200-30-03	Studies on Biotransformation of <i>Eupatorium Adenophorum</i> Hepatotoxin	Dr.O.P.Sharma	4.10.2002
31.	Mr.Ravinder Kumar S-2000-30-03	Effect of Crop duration and Storage on Biochemical Constituents of Taro ( <i>Colocasia esculenta</i> L.) (Schott).	Dr.C.P.Awasthi	4.8.2003
32.	Ms.Renu Bala S-2000-30-05	Biochemistry of fern induced Oxidative Stress in Urinary Bladder	Dr.R.K.Dawra	23.9.2002
33.	Ms. Shaileja Guleria S-2000-30-05	Technics and Biochemical Evaluation of Value added Teas	Dr.R.G.Sud	18.9.2002
34.	Ms. Savita Kumari S-2001-30-6	Biochemical and Nutritional Evasluation of Maize ( <i>Zea mays</i> L.) genotypes of Himachal Pradesh	Dr.C.P.Awasthi	27.8.2004
35.	Ms. Ruchi Sharma S-2001-30-04	Persistence studies of Butachlor in Soil and its biochemical effect in Transplanted Rice	Dr.Neelam Sharma	5.12.2003
36	Ms.Himashree Deka S-2001-30-1	Studies on Biotransformation of Chromenes of <i>Ageratum</i> Spp.	Dr.O.P.Sharma	11.8.2003
37.	Ms.Jyoti Ghalotra S-2001-30-02	Biochemical studies on Tannin degrading Enzymes of <i>Aspergillus niger</i>	Dr.T.K.Bhatt	24.10.03
38.	Ms. Nisha Kumari Rana S-2002-30-04)	Comparative Studies on Fungal Tannase Using different production methods	Dr.T.K.Bhatt	20.9.04
39.	Ms.Savita S-2002-30-05)	Studies on persistence of Isoproturon in soil and its Biochemical effect in Wheat	Dr.Neelam Sharma	25.10.04
40.	Ms.Anuradha Rana S-2002-30-01	Biotransformation of Gallic Acid using <i>Aspergillus van tiegham</i>	Dr.O.P.Sharma	20.9.04

41.	Ms.Monika S-2003-30-02	Purification and properties of intra cellular of <i>Aspergillus niger</i>	Dr.T.K.Bhat	14.9.05
42.	Ms.Smriti Priya S-2002-30-04	Biochemical Characterization of Rice bean ( <i>Vigna Umbellata</i> ) Germplasm	Dr.C.P.Awasthi	3.12.2005
43.	Ms.Payal Sood S-2003-30-03	Isolation, Purification and Biochemical action of condensed tannins	Dr.O.P.Sharma	14.9.05
44.	Ms.Kiran Kaundal S-2003-30-01	Studies on the Mineral Nutrition of Kangra Tea <i>Camellia Sinensis</i> L (O) Kuntze	Dr.R.G.Sud	15.10.05
45.	Ms.Tabasum Kawoosa S-2003-30-05	Biochemical Evaluation and Nutritional Characterization of Rajmash ( <i>Phaseolus Vulgaris</i> ) genotypes of Himachal Pradesh	Dr.C.P.Awasthi	7.10.05
46.	Ms.Arti Ghabru S-2004-30-5)	Studies on Interaction of Lantadenes with Biomacromolecules	Dr.R.G.Sud	28.9.06
47.	Ms.Nisha Kashyap S-2004-30-06	Biochemical studies on the Phenolic Compounds of Kangra tea	Dr.R.G.Sud	24.10.06
48.	Mr.Nitin Bhatnagar S-2004-30-07	Biochemical evaluation and estimation of pesticide residues in sesame ( <i>Sesamum Indicum</i> L) genotypes	Dr.Neelam Sharma	13.10.2006
49.	Ms.Ritu S-2004-30-30-8	Biochemical evaluation of linseed genotypes for edible and Industrial purpose	Dr.Kamal Mohini	27.9.2006
50.	Ms.Sanjula Sharma S-2004-30-30-9	Biochemical evaluation of some horse gram ( <i>Macrotylom Uniflorum</i> (L) <i>verdge</i> genotypes of Himachal Pradesh	Dr.C.P.Awasthi	13.11.2006
51.	Mr. Ramesh Singh Pal S-2005-30-09	Study on the polyphenolics of Tea { <i>Camelia sinensis</i> (L) of Kuntze } of Himachal Pradesh.	Dr.R.G.Sud	28.7.2007
52.	Ms. Minakshi Gupta S-2005-30-06	Evaluation of improved linseed ( <i>Linun usitatissimum</i> L.) varieties for biochemical and mineral constituents.	Dr.Kamal Mohini	23.8.2007
53	Ms. Monika Mahajan S-2005-30-07	Persistence studies of atrazine in soil and its biochemical effects in maize.	Dr.Neelam Sharma	05.11.2007
54.	Mr. Rishi Thakur S-2005-30-10	Biochemical evaluation of promising buck wheat ( <i>Fagopyrum esculentum Moench</i> ) of Himachal Pradesh.	Dr.C.P.Awasthi	20.12.2007

55.	Ms.Bhanu Priya Thakur S-2005-30-05	Studies on trypsin inhibitor in rice bean ( <i>Vigna umbellata</i> ).	Dr.Rajan Katoch	08.07.2008
56.	Mr. Santosh Kumar S-2006-30-07	Studies on flavonoids by Kangra tea	Dr.R.G.Sud	11.7.2008
57.	Ms. Kanika Sharma S-2006-30-05	Biochemical evaluation of promising genotypes of frenchbean ( <i>Phaseolus vulgaris</i> L.) grown under Palampur condition.	Dr.Nageswer Singh	5.8.2008
58.	Ms.Megh Nandani Sood S-2006-30-06	Biochemical characterization of antinutrients in rice bean ( <i>Vigna umbellata</i> )	Dr.Rajan Katoch	17.11.2008
59.	Ms. Meenakshi Thakur S-2007-30-07	Biochemical evaluation of sesame ( <i>Sesamum indicum</i> L.) genotypes	Dr.C.P.Awasthi	29.8.2009
60.	Ms.Ritu Sharma S-2007-30-08	Studies on nutraceutical attributes of Kangra tea [ <i>Camellia sinensis</i> (L) O Kuntze]	Dr.R.G.Sud	Left
61.	Mr. Rohit Sharma S-2007-30-09	Studies on polyphenolic profile of Kangra tea [ <i>Camellia sinensis</i> (L) O Kuntze] cultivars.	Dr.R.G.Sud	18.8.2009
62.	Ms. Shelly Sharma S-2007-30-11	Biochemical variation in linseed ( <i>Linum usitatissimum</i> L.) genotypes grown under sub temperate and sub-tropical conditions.	Dr.Kamal Mohini	27.8.2009
63.	Ms. Sweta Sehgal S-2007-30-10	Studies on herbicide residue in garlic and their effect on crop quality.	Dr. Neelam Sharma	20.9.2009
64.	Ms. Simpal S-2007-30-12	Seasonal variations of polyphenol oxidase activity in tea [ <i>Camellia sinensis</i> (L) O Kuntze]	Dr.Nageswer Singh	31.8.2009
65.	Mr. Ajay Kumar S-2008-30-09	Biochemical evaluation of promising grain amaranths genotypes of Himachal Pradesh	Dr.C.P.Awasthi	10.09.2010
66.	Ms. Neha Banta S-2008-30-11	Biochemical study of oil cake and oil quality parameters in yellow and brown seeded linseed mixture	Dr.Kamal Mohini	30.08.2010
67.	Ms.Nitasha Thakur S-2008-30-12	Biochemical evaluation of garden pea ( <i>Pisum sativum</i> ) genotypes grown under wet temperate conditions of Himachal Pradesh and their molecular characterization	Dr. Nageswer Singh	14.7.2010
68.	Ms. Nitasha Walia S-2008-30-13	Evaluation of Biochemical constituents of linseed genotypes grown in different climatic conditions in District Kangra	Dr.Kamal Mohini	30.08.2010

69.	Ms. Sheetanshu Grover S-2008-30-14	Biochemical evaluation of plant extracts for the control of powdery mildew disease in pea ( <i>Pisum sativum</i> L.)	Dr.Rajan Katoch	22.12.2010
70.	Ms. Anita Rana S-2009-30-01	Studies of biochemical constituents and fatty acids profile of pecan nut ( <i>Carya illinoensis</i> (Wangenh.) K.Koch.) genotypes of Himachal Pradesh	Dr.Nageswer Singh	23.8.2011
71.	Ms. Ankita Guleria S-2009-30-02	Biochemical evaluation of linseed ( <i>linum usitatissimum</i> ) genotypes and keeping quality of some oils.	Dr.Kamal Mohini	30.8.2011
72.	Ms. Aroma S-2009-30-03	Isolation, purification and characterization of $\alpha$ -amylase inhibitor from Rice bean ( <i>Vigna umbellata</i> )	Dr.Rajan Katoch	28.12.2011
73.	Ms. Richa Thakur S-2009-30-05	Nutraceutical attributes of Kangra tea [ <i>Camellia Sinensis</i> (L) O Kuntze]	Dr.R.G.Sud	28.07.2011
74.	Ms. Shivani Mankotia S-2009-30-06	Biochemical evaluation of Rice bean [ <i>Vigna Umbellata</i> (Thunb) Ohwi and Ohashi] genotypes of Himachal Pradesh]	Dr.C.P.Awasthi	08.08.2011
75.	Ms. Swati Sharma S-2009-30-07	Studies on biochemical effects and terminal residues of 2, 4-D in wheat	Dr. Neelam Sharma	01.10.2011
76.	Ms. Anshu Kanwar S-2010-30-01	Studies on phytochemical constituents of Metha species	Dr. Nageswer Singh	12.11.2012
77.	Ms. Khushboo S-2010-30-02	Evaluation Evaluation of Bread Wheat Doubled Haploids	Dr.Kamal Mohini	03.09.2012
78.	Ms. Mitali Mahajan S-2010-30-03	Studies on Biochemical Constituents of Horsegram ( <i>Macrotyloma uniflorum</i> ) Genotypes of Himachal Pradesh	Dr.Kamal Mohini	03.09.2012
79.	Ms. Poonam Kumari S-2010-30-04	Studies on Biochemical Constituents of Linseed ( <i>Linum usitatissimum</i> L.) genotypes	Dr.Kamal Mohini	03.09.2012
80.	Ms. Pratibha Rana S-2010-30-05	Seasonal variation on polyphenols and polyphenol oxidase activity in tea [ <i>Camellia sinensis</i> (L) O Kuntze]	Dr.Nageswer Singh	14.09.2012
81.	Ms. Ragini Sen S-2010-30-07	Assessment of antimicrobial activity of essential oils and plant extracts from <i>Eupatorium and Lantana</i>	Dr.Rajan Katoch	
82.	Ms. Reetu S-2010-30-08	Persistence studies of pretilachlor and its biochemical effects in transplanted rice	Dr.Neelam Sharma	13.09.2012

83.	Ms. Shivani Sharma S-2010-30-09	Biochemical evaluation of adzuki bean [ <i>Vigna angularis</i> (Willd.) Owhi and Ohasi] genotypes	Dr. C.P.Awasthi	20.09.2012
84.	Ms. Shivani Sharma S-2010-30-10	Molecular characterization of a major Begomovirus infecting pulse crops in Himachal Pradesh	Dr.Nageswer Singh	14.09.2012
85.	Ms. Suman Kumari S-2010-30-11	Biochemical evaluation of potato as influenced by metribuzin	Dr. Neelam Sharma	13.09.2012
86.	Ms. Priya Kapoor S-2011-30-01	<i>In vitro</i> studies on metabolism of saponins in rumen fluid	Dr.O.P.Sharma	19.8.2013
87.	Ms.Shilpa Devi S-2011-30-02	Isolation, purification and bioactivity of proanthocyanidins from tree leave.	Dr.T.K.Bhat	19.8.2013
88.	Ms. Anu Bharti S-2012-30-001	Chromatography characterization of polyphenolic compounds of some tannin-rich plants.	Dr.T.K.Bhat	23.12.2014
89.	Ms. Esha Sharma S-2012-30-002	Biochemical and persistence studies of clodinafop-propgryl in wheat	Dr.Neelam Sharma	08.12.2014
90.	Ms. Shivangi S-2012-30-003	“Studies of phenolic compounds and Molecular characterization of RNA-DNA viruses in <i>Valeriana</i> spp.”	Dr. Nageswer Singh	10.09.2014

## 2. List of Ph. D. (Biochemistry) students who have completed their degree:

Sr. No.	Name of the student & Admn. No.	Title of the Thesis/ Major & Minor fields	Name of Major Advisor	Date & Year of completion of Written comprehensive	Date & Year of completion of Oral comprehensive	Date & Year of completion of degree
1.	Ms. Diksha Dogra S-2006-40-03	Biochemical evaluation of buckwheat ( <i>Fagopyrum esculentum Moench</i> ) genotypes	Dr.C.P.Awasthi	May, 2008	23.8.2008	27.09.2010
		Major field : Biochemistry Minor fields: (i) Agril. Biotechnology (ii) Microbiology				
2.	Ms. Bandana S-2006-40-04	Studies on effect of glyphosate on biochemical attributes of tea [ <i>Camellia sinensis</i> (L) O Kuntze]	Dr. Neelam Sharma	September, 08	25.10.2008	14.09.2010
		Major field : Biochemistry Minor fields: (i) Agril. Biotechnology (ii) Tea Husbandry & Technology				
3.	Ms. Arti Ghabru S-2007-40-03	Studies on flavan-3-ols and biological activity of Kangra tea [ <i>Camellia sinensis</i> (L) O Kuntze]	Dr.R.G.Sud	March, 2009	20.5.2009	10.02.2011
		Major field : Biochemistry Minor fields: (i) Agril. Biotechnology (ii) Microbiology				
4.	Mr. Rishi Thakur S-2007-40-04	Biochemical evaluation of tartary buck wheat ( <i>Fagopyrum tataricum Gaertn.</i> ) genotypes	Dr.C.P.Awasthi	April, 2009	24.7.2009	23.9.2011
		Major field : Biochemistry Minor fields: (i) Agril. Biotechnology (ii) Plant Physiology				
5.	Ms. Kanika Sharma S-2008-40-01	Evaluation of protease inhibitor on insect proteases and isolation of gene encoding protease inhibitor from rice bean ( <i>Vigna umbellata</i> )	Dr.Rajan Katoch	July, 2010	3.12.2010	22.4.2013
		Major field: Biochemistry Minor: (i) Microbiology (ii) Food Science & Nutrition				
6.	Ms. Shweta S-2009-40-01	Studies on the biochemical profile of different <i>vigna spp.</i> prevalent under mid-hill conditions of Himachal Pradesh	Dr.Rajan Katoch	October, 2011	17.02.2012	20.11.2013
		Major field: Biochemistry Minor: (i) Microbiology (ii) Food Science & Nutrition				

### 3. List of M.Sc. (Biochemistry) continuing students:

Sr. No.	Name & Admn. No.	Title of Thesis	Name of Major Advisor	Date & Year of completion of Written comprehensive	year of completion of degree
1.	Mr. Ankur Tripathi S-2013-30-001	Isolation and purification of lectins from <i>Vigna</i> species	Dr.Rajan Katoch	February, 2015	
2.	Ms. Shipra Singh S-2013-30-003	Biochemical evaluation of spiked Ginger Lily ( <i>Hedychium Spicatum</i> )	Dr. Kamal Mohini	February, 2015	
3.	Ms. Vipasha Sharma S-2014-30-002	Biochemical and residue studies of sulfosulfuron applied in wheat crop	Dr. Neelam Sharma		

#### 4. List of continuing Ph.D. (Biochemistry) students:

Sr.No.	Name of the student & Admn. No.	Title of the Thesis, Major & Minor fields	Name of Major Advisor	Date & Year of completion of Written comprehensive	Date & Year of completion of Oral comprehensive	Date & Year of completion of degree
1.	Ms. Anita Rana S-2012-40-001	Chlorotic Leaf Spot Disease of Arka ( <i>Calotropis gigantea</i> ): Molecular Characterization of the Causal Agent and Effect on Phytochemical Constituents	Dr. Nageswer Singh	March, 2014	25.8.2014	
		Major Field: Biochemistry Minor Fields (i) Plant Physiology (ii) Food Science, Nutrition and Technology				
2.	Ms. Nitasha Thakur S-2012-40-002	Studies on the effect of metsulfuron methyl on biosynthetic pathway of wheat and its fate in soil	Dr. Neelam Sharma	March, 2014	25.8.2014	
		Major Field: Biochemistry Minor Fields (i) Agricultural Biotechnology (ii) Plant Physiology				
3.	Ms. Reetu S-2012-40-003	Antioxidant properties and molecular diversity of Meethi Neem [ <i>Murraya koenigii</i> (L.) Spreng]	Dr. Nageswer Singh	March, 2014	10.9.2014	
		Major Field: Biochemistry Minor Fields (i) Agricultural Biotechnology (ii) Biology				
4.	Ms. Neha Banta S-2014-40-001	Major Field: Biochemist Minor Fields (i) Plant Physiology (ii) Food Science, Nutrition and Technology	Dr. Kamal Mohini			



## **6. Award / Honour(2014-15)**

- Dr. Nageswer Singh, Assistant Scientist (Biochemistry) elected as Executive Member of Indian Society of Agricultural Biochemists
- Ms. Vipasha Sharma, Admission. No. S-2014-30-002 awarded Inspire Fellowship.
- Mr. Ankur Tripathi, Admission No.S-2013-30-001 has qualified ICAR-AICE-SRF (PGS)-2015 and got 4<sup>th</sup> rank in Plant Biochemistry
- Ms. Reetu, Admission No.S-2012-40-003, Ph.D. (Biochemistry) student qualified ARS-2014 examination and selected as Agricultural Research Scientist
- Ms. Shipra Singh Admission No.S-2013-30-002 and Dr. Nageswer Singh, Assistant Scientist (Biochemistry) participated in 7th Science Conclave/INSPIRE Internship Program: A Congregation of Nobel Laureates and Eminent Scientists at Indian Institute of Information Technology, Allahabad w.e.f. 08-12 Dec.2014.