

1. Name of faculty : **Dr. Navneet Singh Chaudhary**
2. Department : **Botany**
3. Designation : **Assistant Professor**
4. Age as on 01.01.2016 : **36 Years**
5. Educational Qualifications :

Year	Qualification	Subject/Area	University/Institute
2009	<b>Ph.D.</b>	Protein Biochemistry & Molecular Biology	Department of Biotechnology, Indian Institute of Technology Roorkee ( <b>IIT Roorkee</b> ), Roorkee-247667, India
2004	Qualified for <b>NET-JRF</b> (Junior Research Fellowship) Exam. held in June 2004		
2003	Qualified for <b>NET-LS</b> (Lectureship) Exam. held in December 2002		
2003	<b>M.Sc.</b>	Botany	MDS University, Ajmer, Rajasthan
2001	<b>B.Sc.</b>	Chemistry, Botany, Zoology	MDS University, Ajmer, Rajasthan

6. Teaching Experience as on 01.01.2016 : **06 Years, 09 Months**
7. Address (Local) : **D-30, Mahalakshmi Nagar, Near Gyan Vihar School, Malviya Nagar, Jaipur-302017 (Rajasthan)**
- Address (Permanent) : **A/41-42, Indira Colony, Heeradas, Bharatpur-321001 (Rajasthan)**
8. Phone / Mobile Number : **+91 9468566695/ 9799015343**
9. Email ID : **[navneetiitr@gmail.com](mailto:navneetiitr@gmail.com)**

### 10. Details of Research Projects:

S. No.	Title of project	Co-investigat or if any	Funding Agency	Year of sanction	Year of completion	Funds received (in Lacs)
1.	“Identification, Isolation and Characterization of Anti-Alzheimer’s Disease Compounds (Acetyl-Cholinesterase Inhibitors) from Natural Sources”		SERB-DST Govt. of India	2013	ongoing	23.0
2.	“Functional and Structural Characterization of Ribosome Inactivating Protein with Lectin Activity from <i>Momordica dioica</i> ”	Dr. Pallavi Vyas	DBT, Govt. of India	2012	ongoing	18.0

### 11. List of Publications:

Authors names	Title of paper/Chapter	Name of Journal/Book	Vol. No.	Pages from – to	Year
Chandrapal P. Singh, Navneet S. Chaudhary, Manish Goyal, Simon Wallace, Ratna Karan	"Role of miRNA in Abiotic Stress Responses in <i>Arabidopsis thaliana</i> " Ch5	Arabidopsis Thaliana: Cultivation, Life Cycle and Functional Genomics’, Nova Science Publishers, New York	Editor-Adriano Sofo, Series: Plant science research and practices	103-128	2015
Tomar P. P. S., Chaudhary N.S., Mishra P., Gahloth D., Patel G. K., Selvakumar P,	Purification, characterisation and cloning of a 2S albumin with DNase, RNase and antifungal activities from	Applied Biochemistry and Biotechnology-Springer (Impact Factor-1.735)	174 (2)	471-482	2014

Kumar P., Sharma A. K.	<i>Putranjiva roxburghii</i>				
<b>Chaudhary, N. S.</b>	“Microalgae in Biofuel Production- Current Status and Future Prospects” Ch7	Biofuels Production	John Wiley & Sons, Inc., Hoboken, NJ, USA	167-210	<b>2013</b>
<b>Chaudhary N. S.,</b> Shee C., Islam A., Ahmad F., Yernool D., Kumar P., Sharma A. K.	Purification and characterization of a trypsin inhibitor from <i>Putranjiva roxburghii</i> seeds	Phytochemistry (Impact Factor- <b>3.350</b> )	69	2120-2126	<b>2008</b>

## 12. List of Conferences / Symposium/ Workshop/ Refresher Courses/ Orientation Courses Attended

### Orientation Courses

- Attended and participated in UGC sponsored ‘97<sup>th</sup> Orientation Programme’ organized by Human Resources Development Centre (HRDC), Ranked 2<sup>nd</sup> by NAAC in 2012, University of Rajasthan, Jaipur during May 18<sup>th</sup> - June 13<sup>th</sup>, **2015**.

### Conferences / Seminars/ Symposium/ Workshop

- Attended and participated in XXXVIII All India Conference of The Indian Botanical Society & National Symposium On “Emerging trends In Plant sciences” organized by Department of Botany, University of Rajasthan Jaipur during Oct. 26- 28, **2015**.
- Attended and participated in a ‘National Seminar’ on “ Advances in Natural Science for Indigenous Development in India” jointly organized by Department of Botany, University of Rajasthan Jaipur and Indian Science Congress Association (ISCA) Jaipur Chapter during Sept. 30<sup>th</sup> – Oct. 2<sup>nd</sup>, **2015**.
- Attended and participated in a ‘National Workshop’ on “Hands on Training in Advances in Biotechnology” organized by Department of Biosciences, School of Basic Sciences, Manipal University, Jaipur during July 13<sup>-15</sup>, **2015**.
- Attended and participated in ‘3<sup>rd</sup> Rajasthan Science Congress’ jointly organized by Vaigyanik Drishtikon Society (VDS) and Manipal University Jaipur during Feb.28- March 02, **2015**.
- Attended and participated in **International** Conference on ‘Recent Trends in Agriculture, Veterinary & Life Sciences’ organized by School of Studies in Zoology and Biotechnology, Vikram University, Ujjain during January 30-31, **2015**.

- Attended and participated in ‘National Workshop’ on “Applications of Computational Tools in Medicine & Biology (NWMB-2015) organized by Department of Zoology, Centre for Advanced Studies, University of Rajasthan, Jaipur on Jan. 24<sup>th</sup>, **2015**.
- Attended and participated in **INDO-US International** Conference/Workshop on “Recent Advances in Structural Biology & Drug Discovery” (RASBDD-2014) jointly organized by **Purdue University, USA** and Department of Biotechnology, Indian Institute of Technology Roorkee, Roorkee, India during October 09-11, **2014**.
- Attended and participated in National Symposium on “Green Economy & Harnessing Natural Products for Sustainable Development” organized by Indian Society for Life Sciences under the auspices of The Indian Science Congress Association Jaipur Chapter at Jaipur on July 12, **2014**.
- Attended and participated in National Conference on “Plant Bioresource Management and Biotechnology” (PBMB) organized by Department of Botany, University of Rajasthan, Jaipur, during January 29-31, **2014**.
- Worked at CSIR-CCMB Hyderabad for two months as an Indian Science Academies Summer Research Faculty Fellow in a research project from July 2013 to September 2013 with the award of Summer Research Fellowship- **2013** by Indian Science Academies.
- Attended and participated in an International ‘EMBO Global Exchange Lecture Course’ on “Structural and Biophysical Methods for Biological Macromolecules in Solution” held at CSIR- Centre for Cellular and Molecular Biology (CCMB), Hyderabad, India, during 29 November – 06 December **2012**.
- Attended an International Symposium on “MIF in Health and Diseases”. MIF (Macrophage Migration Inhibitory Factor) at Piramal Life Sciences, Mumbai India, November 01-02, **2012**.
- ISTE Workshop on “Introduction to Research Methodologies” conducted by Indian Institute of Technology Bombay (IITB) under the National Mission on Education through ICT, MHRD, from 25<sup>th</sup> June to 04<sup>th</sup> July **2012**.
- Participated in a “LaTeX Faculty Development Program” organized by IIT Bombay and funded by National Mission on Education through ICT, MHRD, Govt. of India on 1<sup>st</sup> June **2012**.
- National Workshop on “Bioinformatics: Sequence and Genome Analysis”. Birla Institute of Scientific Research (BISR) Jaipur, India, Dec. 8-10, **2011**.
- National Workshop on “Rational Drug Design”. Birla Institute of Scientific Research (BISR) Jaipur, India. Oct 28-31, **2009**.
- National Symposium on Cellular and Molecular Biophysics NCMB-2009, Centre for Cellular and Molecular Biology (CCMB) Hyderabad, India, Jan. 22-24, **2009**.
- International Conference on Molecular Biology and Biotechnology ICMBB-2008. Department of Bioscience and Biotechnology, Banasthali University, Banasthali Vidyapith, India. 19-21 Oct. **2008**.

- Interdisciplinary Science Conference- 2007 on Recent Trends in Research in Biological Sciences. Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi. India. 7 Dec. **2007**.
- Electron Microscopy and Their Usage for Nanotechnology Related Research Work (Short term course). Centre of Nanotechnology, Indian Institute of Technology Roorkee, Roorkee. India. 3-10 Oct. **2007**.
- National Biotechnology Conference- 2006 Current Trends and Future Perspectives. Department of Biotechnology & Department of Management Studies, Indian Institute of technology Roorkee & Indian Federation of Biotechnologists (IFB-India). Roorkee. India. 2-3 Sept. **2006**.
- Therapeutic and Diagnostic products for Reproductive Health: Recent Trends and Future Prospects. Department of Biotechnology, Indian Institute of Technology Roorkee, Roorkee, India. 14-16 Feb. **2006**.

### 13. Papers in Conference Proceedings:

Authors names	Title of paper	Name of Conference, City, Country	Year
<b>Navneet Singh Chaudhary</b>	“Protease inhibitors from Plants: A Potential Class of Proteinaceous Biomolecules in Improved Plant Defense and Therapeutics”	‘3 <sup>rd</sup> Rajasthan Science Congress’ jointly organized by Vaigyanik Drishtikon Society (VDS) and Manipal University, Jaipur, India	<b>2015</b>
<b>Navneet Singh Chaudhary and Neelam Barwer</b>	“The Role of Plant Protease Inhibitors as Natural Proteinaceous Biomolecules in Improved Plant Defense and Therapeutics”	National Seminar on ‘Advances in Natural Science for Indigenous Development in India, organized by ISCA Jaipur Chapter and Department of Botany, University of Rajasthan Jaipur, India	<b>2015</b>
<b>Navneet Singh Chaudhary</b>	Cloning and Expression of Bacterial Immunoglobulin (Big) like and Translocated Intimin Receptor (Tir) Proteins from Enteropathogenic Bacteria	XXXVIII All India Conference of The Indian Botanical Society & National Symposium On “Emerging trends In Plant sciences” organized by Department of Botany, University of Rajasthan Jaipur, India	<b>2015</b>
<b>Navneet Singh Chaudhary, Rajeev Raman, Yogendra Sharma</b>	“Cloning and Expression of Bacterial Immunoglobulin (Big) like Protein of <i>Vibrio nigripulchritudo</i> and Tir	<b>International</b> Conference on ‘Recent Trends in Agriculture, Veterinary & Life Sciences’ organized by School of Studies in Zoology and Biotechnology,	<b>2015</b>

	protein from Enteropathogenic <i>Escherichia coli</i> "	Vikram University, Ujjain, India	
<b>Navneet Singh Chaudhary,</b> Ashwani Kumar Sharma	"Conformational, proteolytic and physicochemical stability studies of a highly stable trypsin inhibitor purified from <i>Putranjiva roxburghii</i> "	INDO-US <b>International</b> Conference on "Recent Advances in Structural Biology & Drug Discovery" (RASBDD-2014) jointly organized by <b>Purdue University, USA</b> and Department of Biotechnology, Indian Institute of Technology Roorkee, Roorkee, India	<b>2014</b>
<b>Navneet Singh Chaudhary, D.</b> V. Rao	"Screening and Identification of Anti-Alzheimer's Disease Compounds (Acetylcholinestrase Inhibitors) from Selected Medicinal and Herbal Plants"	<b>National</b> Conference on "Plant Bioresource Management and Biotechnology" (PBMB) organized by Department of Botany, University of Rajasthan, Jaipur, India	<b>2014</b>
Jinitha Varghese, Sonal R. Bakshi, <b>Navneet S. Chaudhary</b>	"To study the In-Vitro frequency of micronucleous formation in whole blood in subject with long term exposure to tobacco"	<b>National</b> Conference on Developmental Exploitation of Microbial Systems for Mankind's, Department of Microbiology, Mata Gujri Mahila Mahavidyalaya, Jabalpur, MP, india	<b>2012</b>
Kar Bibekananda, Patel Girijesh K, <b>Chaudhary Navneet S,</b> Sharma Ashwani Kumar	Characterization, cloning, sequence analysis and modeling of a trypsin inhibitor from <i>Putranjiva roxburghii</i> .	7th <b>Asian</b> Biophysics Association (ABA) Symposium & Annual Meeting of the Indian Biophysical Society (IBS) at India Habitat Center, New Delhi, India	<b>2011</b>
<b>Navneet Singh. Chaudhary,</b> Dinesh Yernool, Pravindra Kumar, Ashwani K. Sharma	Purification, Biochemical and Biophysical Characterization of a Novel Trypsin Inhibitor Protein.	The <b>International</b> Symposium on Emerging Areas in Biotechnology & Bioengineering, School of Biosciences and Bioengineering, Indian Institute of Technology Bombay, Mumbai, India	<b>2009</b>
<b>Navneet Singh Chaudhary,</b>	Purification, characterization and	<b>National</b> Symposium on Cellular and Molecular	<b>2009</b>

Dinesh Yernool, Pravindra Kumar, Ashwani K. Sharma	conformational stability studies of a trypsin inhibitor from <i>Putranjiva roxburghii</i> seeds.	Biophysics NCMB 2009, CCMB Hyderabad, India	
<b>Navneet Singh Chaudhary</b> , ChandanShee, Asimul Islam, Faizan Ahmad, Dinesh Yernool, Pravindra Kumar, Ashwani K. Sharma ( <b>2008</b> ).	Purification, characterization and stability studies of a trypsin inhibitor from <i>Putranjiva roxburghii</i> seeds.	<b>International</b> Conference on Molecular Biology and Biotechnology 2008, Banasthali University, India	<b>2008</b>

**14. (a) National / International Collaborations with MoU (if any):-Nil**

**(b) Number of papers published where co-author is from another institute within the country- 03**

**(c) Number of papers published where co-author is from another institute outside the country- 02**

**15. National / International Awards received**

- Awarded with “**Best Presentation Award**” in an **International** Conference on ‘Recent Trends in Agriculture, Veterinary & Life Sciences’ organized by School of Studies in Zoology and Biotechnology, Vikram University, Ujjain during January 30-31, **2015**
- A “**Fast Track Young Scientist Research Project**” awarded by Department of Science & Technology- Science and Engineering Research Board (DST-SERB), Govt. of India in October **2013** (Project Registration No. SERB/LS-376/2013).
- **Indian Science Academies** awarded “**Summer Research Fellowship Award 2013**” for two months duration to conduct research work at CSIR-Center for Cellular and Molecular Biology (CCMB), Hyderabad, India.
- **DBT** (Department of Biotechnology, Govt. of India) awarded a **research grant** under the **RGYI (Rapid Grant for Young Investigators)** Scheme-**2012** (Project Registration No. BT/PR6783/GBD/27/487/2012).

- Selected and Awarded with free participation in ‘**EMBO Global Exchange Lecture Course**’ on “Structural and Biophysical Methods for Biological Macromolecules in Solution” organized by EMBL (European molecular Biology Laboratory) Hamburg, Germany and CSIR- Centre for Cellular and Molecular Biology (CCMB), Hyderabad, India, during 29 November – 06 December **2012**.
- Received **Travel Grant** award by Piramal Life Sciences, in Nov. 2012 for attending an International Symposium on “MIF in Health and Diseases” at Piramal Research Center, Mumbai, India Nov. 1-2, **2012**.
- **DST** (Department of Science & Technology) Rajasthan awarded a **minor research project** in Feb., **2011** (Project Reg. No. F.7(7)S.T./R&D/SP/2010/6911)
- Awarded “Senior Research Fellowship” (**SRF**) by UGC in **2007** (July 2007 to June 2009).
- Awarded “Junior Research Fellowship” (**JRF**) awarded by UGC in **2005** (July 2005 to June 2007)

**16. Membership of technical societies / academic bodies/ National or international organizations (if any)**

- Life Member of “Indian Biophysical Society” (IBS) (<http://indianbiophysicalsociety.org/members.html>)
- Life Member of “The Indian Science Congress Association”. A professional body under Department of Science & Technology, Ministry of Science & Technology, Government of India (<http://www.sciencecongress.nic.in/html/index.php>)