

Pooja Rana

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Career Overview

Degree	Year	University	Subjects	%Marks / OCPA
Ph D Biochemistry	Dec-2002-May 2006	Punjab Agriculture University, Ludhiana	Advanced Enzymology, Advanced Molecular Biochemistry, Proteins and Nucleic Acids, Fundamental of Toxicology, Toxicology of Agro chemicals molecular immunology, Chemistry of natural products, Organic Chemistry.	8.32 / 10
M.Sc Biochemistry	Aug-2000 to Dec 2002	Punjab Agriculture University, Ludhiana	General Biochemistry and Metabolism, Enzymology, Radiation Biology and Immunobiocemistry, Molecular Biochemistry, Plant Biochemistry	8.18 / 10
B.Sc	Jul 1997- Jun 2000	Punjab University, Chandigarh.	Zoology, Biochemistry, Chemistry, English, Punjabi	76.85%
XIIth	June 1995 – June 1996	CBSE	English, Biology, Physics, Chemistry	79.88%

Professional Career Overview

May-09 - till date

Worked, as a Lecturer in Department of Bio technology, Modern College of Arts Science and Commerce, Ganeshkhind Pune -16. My teaching expertise is Advanced Bio chemistry, Metabolic Pathways, Genetic Engineering, Molecular Biochemistry, Biochemical and Biophysical techniques, Intellectual Property rights, Clinical Research and Immunology for Master's Program.

Appointment as an External Examiner for post graduate and undergraduate course of Biotechnology by Savitribai Phule Pune University.

Appointement as Paper-Setters and Moderators for post graduate and undergraduate course of Biotechnology by Savitribai Phule Pune University.

Appointed for the Central Assessment Programme (CAP) by the Savitribai Phule Pune University.

May-07 to Apr-09

Worked as visiting faculty in various Institutes for preparing students for Competitive Examinations (CET,PMT,IIT)

Research Skills

I am fully experienced in various lab techniques. I had worked on animal blood and tissue samples during my M.Sc. and Ph D programme. I have learned various enzymatic and non-enzymatic parameters as a part of my research work using UV and visible spectrophotometry. I have hands on experience in Chromatographic techniques, Agarose gel electrophoresis, Separation of Proteins by SDS PAGE, Native PAGE, Western Blotting, Molecular Biology Techiques, Immunological techniques and basic Microbiological techniques (Pour plating, inoculations etc).

In addition to these techniques, I am well versed in the techniques such as PCR , NMR, Mass Spectroscopy, IR, DNA sequencing techniques, Southern and Northern Analysis, cDNA and genomic library, DNA finger printing, molecular markers etc.

Academic Projects

Ph D:

- *In vivo* studies on the Antioxygenic Potential of some herbs

M. Sc.

- Studies on the Antioxygenic Potential of Rice bran oil in Albino rats

Achievements

- Qualified Agricultural Scientist recruitment board (**ARS**) – National Eligibility Test (**NET**) (For Lectureship / Assistant Professorship) – 2005
- Qualified Council of Scientific and Industrial research (**CSIR**) – National Eligibility Test (**NET**)- 2004
- Qualified Indian Council of Medical Research (**ICMR - JRF**)-2004
- Award of Honour for securing **highest** OCPA in Ph D Biochemistry for the year 2005.
- **University Merit Scholarship** holder during M.Sc. and PhD programme.
- Recipient of **Award of Honour** (Academics /Research-2003) for best poster award (Satellite Seminar for Crop improvement, Palampur-2003)

Publications

- **Pooja Rana**, S.Vadhera and Giridhar Soni (2002) *In vivo* antioxygenic potential of 48(4):428-36.
- **Pooja Rana** and G Soni (2008)Antioxygenic potential of thyme:Alleviation of NDEA induced oxidative stress in “*Human and Experimental Toxicology*” 27: 215-221
- **Pooja Rana** and Giridhar Soni(2008)Role of cumin extract in alleviating NDEA induced oxidative stress in “*Toxicology International*”15(1):7-1
- Akashdeep, **Pooja Rana** and Giridhar Soni(2012)Effect of cultural manipulations on antioxidant potential of tissue cultured *Mentha spicata* (SPR 8) *Journal pharmacy Research***4(10),3368-3371**
- Akashdeep, **Pooja Rana**, S S Gosal and Giridhar Soni(2013) Antioxidant potential of tissue cultured *Mentha spicata* in *Journal pharmacy Research* (1),90-96
- Akash Deep*, **Pooja Rana**, S S Gosal and Giridhar Soni(2014) *In vitro* lipid peroxidation of tissue cultured and tissue culture derived *Mentha* plant *Journal of Applied Pharmaceutical Science* Vol. 4 (06), pp. 079-083, June, 2014

- Akashdeep, **Pooja Rana** and Giridhar Soni(2017) Iron Chelation and Iron Reducing Activity of Tissue Cultured and Tissue Culture Derived *Mentha Spp.* *Journal of Applied Pharmaceutical Science* Vol. 7 (05), pp. 078-083, May, 2017
- Swarda Deo and **Pooja Rana*** Isolation, Screening, and Characterization of Biosurfactant-Producing Microorganisms from Petroleum-Contaminated Soil and Further Optimization of Parameters for Biosurfactant Production *International Journal of Pharmaceutical & Biological Archives* 2018; 9(3): 53-59 ISSN 2581 – 4303

Workshops and Conferences

- Participated in 71st Annual meeting of Society of Biological Chemist India, 14 to 16 Dec 2002 at Punjab Agriculture University, Ludhiana
- Participated in Two days National seminar on *Convergence of Law and Biotechnology* organized by DES Law College and Fergusson College, Pune on 17 and 18 Feb 2010
- Participated in one day workshop on discussion of revised Syllabus S.Y. B.Sc (Biotechnology) at Modern college Shivaji Nagar, Pune on 4th Dec 2009
- Participated in National workshop on Statistical Analysis and clinical trials 18-20 dec2010 organized by Modern college of Arts, Science and Commerce, Shivaji Nagar ,Pune
- Participated in International conference on *Current Trends in Medicinal Plants Research* 10-12 Jan 2012organized by department of Botany University .of Pune.
- Participated and presented a poster entitled “Isolation, screening, and optimization of parameters for biosurfactant production by the microorganisms isolated from contaminated soils” atinternational conference on “Advances in Biotechnology and Bioinformatics” ICAAB 2013
- Attended a workshop on “Cancer Biology” at IISER Pune on Aug -13,2014
- Attended a UGC sponsored National Conference on “innovative ideas and Research in Life Sciences for Sustainable Development”organized by Department of zoology, Nowrosjee Wadia College of Arts Science 16th and 17th January 2015.
- Participatd in faculty Quality Improvement programme Biointegration 2015-“Integrating Chemistry and Physics in rediscovering Biotechnology” held at institute of Bioinformatics and Bitechology. Savitribai Phule Pune University from 25th to 27th February 2015
- Attended and presented poster in “National Conference on CHEMICAL SCIENCES:AN INTERDISCIPLINARY APPROACH(CSIA-2018)” Jan 18-20,2018,sponsored by DBT, organized by department of chemistry, Modern College of Arts, Science and Commerce Ganeshkhind ,Pune.

- Participated in International Conference on “Recent Trends In Life Sciences” ICRLTS-2018 sponsored by SPPU 2nd and 3rd February 2018, organized by department of Zoology, Modern College of Arts, Science and Commerce Ganeshkhind ,Pune.
 - Participated in National workshop on “Use of appropriate softwares in Mathematical Modelling and Statistical Analysis” held on 9 and 10 february,2018 Organizedby department of Mathematics and Statistics, , Modern College of Arts, Science and Commerce Ganeshkhind ,Pune.
 - Attended 8 days Faculty Development Programme on “National Seminar on Animal Cell Culture” organized by HRDC at Guru Nanak Dev University, Amritsar, Punjab
 - **Key skills**
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- I have developed the right attitude and aptitude by doing PhD and MSc from the premiere institutes in India which has helped me explore my area of interest and make a significant contribution for contribution for satisfaction of organizational and individual excellence.
- My presentations in seminars and demonstrations to various concerned in extension have been well taken and appreciated with good communication and analytical skills.
- I have been able to put across my research findings, opinions, arguments and other information at respective platform.
- Self – discipline has taught me time management skills, thus I end up completing assignments on /before deadlines with the required precision and quality. This approach has helped me in completing my MSc and PhD course in time.

References

- Dr G Soni, Senior Biochemist (retired), Department of Biochemistry, PAU, Ludhiana.
Contact No: +919888483754
- Dr B S Sohal, Biochemist(retired), Department of Biochemistry, PAU, Ludhiana

