

**Personal data of**



**Dr. Pinky Prasad**  
**Assistant Professor & Head**  
**Department of Botany**

**Name** : Dr Pinky Prasad  
**Department** : Botany  
**Affiliation** : Patna Women's College (Autonomous), P.U., Patna  
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**Educational qualifications:**

| Level     | Subjects                             | Board/<br>University                          | Year | State/<br>Country | Class<br>obtained |
|-----------|--------------------------------------|---|------|-------------------|-------------------|
| B.Sc.     | Botany (Hon), Zoology &<br>Chemistry | Ranchi<br>University                          | 1989 | Bihar/ India      | I                 |
| M.Sc.     | Botany                               | Magadh<br>University                          | 1996 | Bihar/India       | I                 |
| Any other | Computer (P.G.D.C.A.)                | Patna Women's<br>College,<br>Patna University | 2002 | Bihar/India       | I<br>with Dist.   |
| Ph.D.     | Botany                               | Patna University                              | 2008 | Bihar/India       |                   |

**Research interest** : Microbiology and Environmental Science

**Experience** : Over 16 years of teaching experience  
Completed major DST project under Women Scientist Scheme in  
March, 2015

**Achievement** : Awarded "Institutional Researcher" of the year 2014-2015 by  
Patna Women's College  
: Completed LaTeX Training offered by the **Spoken Tutorial  
Project, IIT Bombay, funded by National Mission on  
Education through ICT, MHRD, Govt. of India**

## Doctoral Studies:

- a) **Topic:** “Isolation and Screening of Efficient Cellulose Degraders from Municipal and Agro Wastes”
- b) **Guide:** Prof. (Retd.) Sheila Bedi
- c) **Year of Award:** 2008

## 7. Membership:

- 1) Life membership of Indian Botanical Society
- 2) Life membership of Associates of Microbiologists of India
- 3) Life membership of The Indian Science Congress Association

## List of Publications in International journals:

1. Prasad P., Bedi S. and Tanuja, (2011). “Effect of cultural and environmental parameters on growth and cellulase production of *Streptomyces* species isolated from municipal wastes”. *International Journal of Current Research* **3(7): 106-111. ISSN: 0975-833X. Impact Factor: 2012 Evaluation pending.**
2. Prasad P., Bedi S. and Tanuja, (2011). “Comparative assessment of cellulolytic potential of two *Streptomyces* strains isolated from municipal wastes”. *Asian Journal of Science and Technology* **1(4): 075-078. ISSN: 0976-3376 (Online).**
3. Prasad P., Bedi S. and Tanuja, (2012). “*In vitro* cellulose rich organic material degradation by cellulolytic *Streptomyces albospinus* (MTCC 8768)”. *Malaysian Journal of Microbiology* **8(3): 164-169. Impact Factor: 0.087.**
4. Pinky Prasad, Tanuja Singh, S. Bedi and Sonika Kumari, (2013). “Molecular characterization and phylogenetic analysis of cellulase producing *Streptomyces griseorubens* (strain St-1) isolated from Indian soil”. *Jordan Journal of Biological Sciences* **6(3): 239-242. ISSN: 19956673.**
5. Pinky Prasad, Tanuja and Sheila Bedi, (2013). “Characterization of the cellulolytic enzyme produced by *Streptomyces griseorubens* (Accession No. AB184139) isolated

- from Indian soil". *Journal of King Saud University-Science* **25**: 245-250. Elsevier publication. ISSN: 10183647; H Index: 6.
6. Prasad P., Tanuja and Bedi S., (2014). "Characterization of a novel thermophilic cellulase producing strain *Streptomyces matensis* strain St-5". *International Journal of Current Microbiology and Applied Sciences* **3(3)**: 74-88. Impact Factor: 0.378.
  7. P. Prasad, Tanuja and S. Bedi, (2014)." Polyphasic Characterization of A Potential Novel Cellulolytic Bacterium *Brevibacillus Brevis* Strain St-2". *Journal of Advances in Biotechnology* **4(1)**: 319-326. Impact Factor: 0.74.
  8. Pinky Prasad, Tanuja Singh and Sheila Bedi (2014). "Enzymatic Screening and Characterization of Cellulolytic Actinomycetes Isolated from Soil samples collected from Patna District in Bihar, India". *International Journal of Current Research and Academic Review* **2(10)**: 60-71. ISSN: 2347-3215.
  9. Pinky Sinha and Sheila Bedi (2018). "Optimization of parameters and assessment of cellulolytic potential of selected cellulose degraders". *Asian Journal of Science and Technology* **9(8)**:8535-8540. ISSN: 0976-3376 (online).
  10. Pinky Sinha and Sheila Bedi (2018). "Production of sugars from cellulosic wastes by enzymatic hydrolysis". *International Journal of Current Research* **10(8)**: 72141-72144. ISSN: 0975-833X.

#### **List of Publications in National journals:**

1. Prasad, P., Bedi, S. and Tanuja, (2012). "Isolation of efficient cellulose degraders from municipal wastes". *Journal of Indian Botanical Society* **91(1-3)**: 75-82. ISSN: 0019-4468. Impact Factor: 2012 Evaluation pending.
2. P. Prasad, Tanuja and Bedi, S., (2013). "Screening and cultural characterization of cellulase producing bacteria". *National Journal of Life Sciences* **10(1)**: 13-18. Print ISSN: 0972-995X; e ISSN: 2321-7960.
3. Pinky Prasad, Tanuja, S. Bedi and Satyendra Kumar, (2013). "Comparative characterization of five cellulolytic bacterial strains isolated from soil samples of Patna region in Bihar". *Biospectra* **8(2)**: 5-90. ISSN: 0973-7057.

4. Prasad, P., Tanuja and Bedi, S, (2013). "Isolation and characterization of cellulose degrading *Brevibacillus brevis* and optimization of its cellulase activity at different physico-chemical parameters". *Research Journal of Biotechnology* 8(5): 66-71. **Impact Factor: 0.143.**

#### **List of Publications in In-House journals**

1. Madhuranjana Gargi, Jyoti and Pinky Prasad, 2010. "Physico-chemical Analysis of unprotected water". *Explore* 2(2) pp. 65-70. **ISSN 2278 – 0297 (Print); ISSN 2278 – 6414 (Online).**
2. Jyoti Rani, Seema Kumari and Pinky Prasad, 2010. "Study of antibiotic activities of some actinomycetes". *Explore* 2(2) pp. 62-64. **ISSN 2278 – 0297 (Print); ISSN 2278 – 6414 (Online).**
3. Aparna Sinha, Prerna Kumari and Pinky Prasad, 2011. "Effect of land uses on soil dehydrogenase activity in recent alluvium". *IRIS – Journal for Young Scientists* pp. 23-29. **ISSN 2278-618X (Print); ISSN 2278-6384 (Online).**
4. Varsha, Sneha Singh and Pinky Prasad, 2012. "Study of heat effects on Vitamin C content of different Fruits and vegetables". *Explore* 4 pp. 11-15. **ISSN 2278 – 0297 (Print); ISSN 2278 – 6414 (Online).**
5. Nancy Robinson, Shruti Pathak, Pushpa Kumari Sharma and Pinky Prasad, 2013. "Study of antifungal potential of some actinomycetes isolated from soil". *Explore* 4 pp. 25-31. **ISSN 2278 – 0297 (Print); ISSN 2278 – 6414 (Online).**
6. Komal, Resham Sinha and Pinky Prasad, 2013. "Isolation and characterization of keratinase producing bacterial strains". *IRIS – Journal for Young Scientists* Vol III pp. 28-32. **ISSN 2278-618X (Print); ISSN 2278-6384 (Online).**
7. Tulika, Afreen, Zeba Rizvi and Pinky Prasad, 2014. "Isolation and characterisation of bacterial strains with potential cellulolytic activities on different substrates". *Explore* Vol VI pp. 24-32. **ISSN 2278 – 0297 (Print); ISSN 2278 – 6414 (Online).**
8. Isra Eqbal Gilani, Vartika Singh and Pinky Prasad, 2015. "Isolation, screening and characterization of plastic degrading microbes isolated from soil samples of Patna region in Bihar". *IRIS – Journal for Young Scientists* Vol V pp. 38-44. **ISSN 2278-618X (Print); ISSN 2278-6384 (Online).**

9. Afrein Naz, Akansha, Mishu Mukherjee and Pinky Prasad, 2015. "Comparative assessment of phytochemicals in fresh and one week old *Carica papaya*". *Explore* Vol VII pp. 15-19. **ISSN 2278 – 0297 (Print); ISSN 2278 – 6414 (Online)**.
10. Tripti Kumari, Sonali, Purnima and Pinky Prasad, 2016. "Comparative assessment of chemical and enzymatic hydrolysis of agricultural and domestic wastes using individual and consortium of lignocelluloses degrading bacterial strains". *IRIS – Journal for Young Scientists* Vol VI pp. 30-38. **ISSN 2278-618X (Print); ISSN 2278-6384 (Online)**.
11. Smriti Nandan, Anamika Kumari, Ranjana Kumari and Pinky Prasad, 2017. "Impact of ascorbic acid on seed germination, seedling growth and metabolism of salt-stressed *Vigna radiate*". *IRIS* 7 pp. 61-69.
12. Manisha Mohan, Mariyam Shaheen, Pinky Singh and Pinky Prasad, 2017. "Estimation of chemical composition in different honey samples". *IRIS* 7 pp. 70-75.

### **Other publications**

1. Prasad Pinky, S. Bedi and Tanuja, 2005. "Aromatherapy: The use of Essential Oils for Psychological and Physical well-being". In: *Proceedings of the National Seminar on "Cultivation of Aromatic Plants in Bihar"*. pp: 107-112.
2. Prasad Pinky, 2007. "Tribal Medicines- A Treasure Trove". In: *Souvenir of the National Seminar on "Prospects of Ethnobotanical Researches in India: Vision 2020"*. pp: 58.
3. Prasad Pinky, S. Bedi and Tanuja, 2007. "Cellulose Degradation for Sustainable Development". In: *Souvenir of 2<sup>nd</sup> Bihar Vigyan Congress-2007*. pp: 22

### **List of Papers/ Posters presented:**

1. Pinky Prasad, 2007. "**Tribal Medicine- A Treasure Trove**". National Seminar on "Prospects of Ethnobotanical Researches in India: Vision 2020 held at Nalanda Open University, Patna on February 24-25, 2007.
2. Prasad Pinky, S. Bedi and Tanuja, 2007. "**Cellulose Degradation for Sustainable Development**". 2<sup>nd</sup> Bihar Vigyan Congress held at IGSC-Planetarium on February 26-28, 2007.

3. Sonika, Pinky Prasad, S. Bedi and Tanuja, 2011. **“Growth adaptability of cellulolytic *Streptomyces somaliensis* MTCC 8769 and its potential for polyhydroxyalkanoates production”**. 52<sup>nd</sup> Annual Conference of Association of Microbiologists of India (AMI), 2011. International Conference on Microbial Biotechnology for Sustainable Development, organized by Punjab University, Chandigarh on November 3-6, 2011.
4. Swati, Bedi, S., Prasad, P., and Tanuja, 2011. **“Phytochemical screening and antioxidant activity of medicinally important weeds for sustainable development”**. 4<sup>th</sup> International Conference on “Life Science Research for Rural & Agricultural Development [ICLRAD-2011]. Organised by Madhavi-Shyam Educational Trust & International Consortium Of Contemporary Biologists (MSET-ICCB, Ranchi) at Central Potato Research Station (CPRS), Patna on December 27-29, 2011.
5. Prasad P., Bedi S., Swati and Tanuja, 2012. **“*In vitro* biodegradation of cellulose by mesophilic actinomycetes”**. GENOMICS-2012: National Seminar on “New Frontiers in Environmental Pollutants, Health & Application of Molecular Genetics”. Sponsored by DST, Ministry of Science & Technology, Govt. of India, New Delhi, at Mahavir Cancer Institute and Research Centre, Patna, Bihar on January 21-22, 2012.
6. Sinha.U, Prasad.P, Swati, Hena and Bedi.S, 2012. **“Biopolymers and its environmental impacts: An overview”**. UGC Sponsored National Seminar on “Chemistry is Life” at Magadh Mahila College, Patna University, Patna on February 23-24, 2012.
7. Pinky Sinha and Sheila Bedi, 2018. **“Characterization of cellulolytic potential of prokaryotic cellulose degraders isolated from soil samples”**. The Indian Science Congress Association, Kanpur Chapter Sponsored National Seminar on “Future India: Science & Technology” at DGPG College, Kanpur on November 23-25, 2018.
8. Urvashi Sinha and Pinky Prasad, 2018. **“Aquatic plants: An effective means of phytoremediation of arsenic from water”**. National Seminar on “New Horizons of Biological Sciences: Advantages and Challenges”, Organized by the Departments of Botany and Industrial Microbiology, Patna Women’s College, Patna University under the Star College Scheme of DBT, Govt. of India and in Collaboration with The Indian Science Congress, Patna Chapter on November 27-28, 2018.
9. Pinky Sinha and Sheila Bedi, 2018. **“Role of prokaryotic cellulose degraders in sustainable development”**. The Indian Science Congress Association, Patna Chapter

Sponsored National Seminar on “Future India: Science & Technology” at Indira Gandhi Planetarium, Patna on December 10, 2018.

**List of National Seminars/ Conferences/ Workshops attended:**

1. UGC Sponsored National Seminar on “Cultivation of Aromatic Plants in Bihar” organized by the Department of botany, B.M.D. College, Dayalpur, Vaishali, B.R.A.B.U., Muzaffarpur on March 4-5, 2005.
2. UGC Sponsored National Conference on “Environmental Education for Sustainable Lifestyle” organized by the Department of Zoology, Patna Women’s College, Patna University, Patna on February 10 and 11, 2006.
3. Scientific Foresight 2007. A Global Symposium on Contemporary Science and Technology organized by the Department of Science and Technology, Govt. of Bihar in collaboration with Global Bihar Groups on December 22-24, 2007.
4. National Symposium on “Ethics in Science and Technology” Sponsored by Society for Scientific Values, Delhi. Organized by the Science Departments, Patna Women’s College, Patna University, Patna on August 22, 2009.
5. National Symposium on “Climate Change and Sustainable Development” at Magadh Mahila College, Patna University, Patna on December 23-24, 2009.
6. IEPHF-2010: National Symposium on “Impact of Environmental Pollutants on Health and Fertility” at Mahavir Cancer Institute and Research Centre, Patna, Bihar on March 13-14, 2010.
7. UGC Sponsored “INFLIBNET: Awareness Workshop for Colleges of Bihar” organized by the Department of Computer Science, Patna Women’s College, Patna University, Patna on February 18, 2011.
8. NPPFD-2011: National Symposium on “Nanotechnology: Present Perspective and Future Direction” at Mahavir Cancer Institute and Research Centre, Patna, Bihar on April 9-10, 2011.
9. UGC Sponsored National Seminar on “Chemistry and Environment” organized by the Department of Chemistry, Patna Women’s College, Patna University, Patna on December 10, 2011.



10. UGC Sponsored National Seminar on “Women and Occupational Health: Stress, Hazards and Safety” organized by the Department of Zoology, Patna Women’s College, Patna University, Patna on January 17-18, 2012.
11. GENOMICS-2012: National Seminar on “New Frontiers in Environmental Pollutants, Health & Application of Molecular Genetics”. Sponsored by DST, Ministry of Science & Technology, Govt. of India, New Delhi, at Mahavir Cancer Institute and Research Centre, Patna, Bihar on January 21-22, 2012.
12. UGC Sponsored National Seminar on “Chemistry is Life” at Magadh Mahila College, Patna University, Patna on February 23-24, 2012.
13. UGC Sponsored National Conference on “Educational Technology in Teaching and Learning: Prospects and Challenges” organized by the Department of Education, Patna Women’s College, Patna University, Patna on March 3, 2012.
14. National Seminar on “Recent Trends in Life Sciences” & Prof. R. P. Roy Memorial Lecture, organized by Department of Botany, Patna University, Patna on May 30, 2012.
15. Awareness Workshop for University Users for Collaborative Research in “Basic And Applied Sciences” organized by UGC-DAE Consortium for Scientific Research, Kolkata Centre & Physics Department, Patna Women’s College, Patna University, Patna on January 9 & 10, 2013.
16. NAAC Sponsored National Workshop on “Institutional Healthy Practices: Opportunities And Strategies” organized by Internal Quality Assurance Cell (IQAC), Patna Women’s College, Patna University, Patna on February 20, 2013.
17. RNDB-2013. National Seminar on “Role of Nanotechnology for Development of Bihar” organized by Aryabhata Centre for Nanoscience & Nanotechnology, Aryabhata Knowledge University, Patna on February 22 & 23, 2013.
18. RAMBSWERD-2013. National Conference on “Recent Advances in Modern Biology & Sericulture for Women Empowerment and Rural Development” held at Karnataka State Sericulture Research and Development Institute, Bengaluru from October 24-26, 2013.
19. MHRD Sponsored Workshop on “Awareness of National Mission on Education Technology through ICT (NMEICT)” organized by National Institute of Technology (NIT), Patna at Patna Women’s College, Patna University, Patna on January 17 and 18, 2014.
20. RSACR-2014. National Symposium on “Recent Scenario and Advancement in Cancer Research” Sponsored by DST, Ministry of Science & Technology, Govt. of India, New

Delhi, organized by S S Hospital & Research Centre, Patna, Bihar at Hotel Pataliputra Ashoka, Patna on March 22 & 23, 2014.

21. AGOICON 2014. Association of Gynecological Oncologist of India Conference held at Hotel Patliputra Ashoka on December 12-14, 2014.
22. National Seminar on “ICT and Women Empowerment organized by the Department of Computer Science, Patna Women’s College, Patna University, Patna in technical collaboration with Computer Society of India, Div I (Systems) & Div III (Applications) on January 22, 2015.
23. National Symposium on “Role of Molecular Diagnostics in Cancer Treatment” Sponsored by Department of Science & Technology, New Delhi and Bihar Council on Science & Technology, Patna, organized by Mahavir Cancer Institute & Research Centre, Patna on March 12, 2015.
24. UGC Sponsored National Seminar on “Development and Management of URBAN INFRASTRUCTURE in India: Growth, Constraints and Prospects”, organized by the Department of Geography, Patna Women’s College, Patna University in Collaboration with the Department of Geography, Kissan College, Sohsarai, M. U. at Patna Women’s College, Patna on January 18-19, 2016.
25. The Indian Science Congress Association, Patna Chapter Sponsored Seminar on “Science and Technology an Indigenous Development in India” at Indira Gandhi Planatarium, Patna on February 08, 2016.
26. The Indian Science Congress Association, Patna Chapter Sponsored Seminar on “Science and Technology for Indigenous Development in India” at Ganga Devi Mahila Mahavidyalaya, Kankerbagh, Patna on March 06, 2016.
27. UGC Sponsored National Seminar on “Chemical Pollutant: Effect on Environment and Health” Organized by the Department of Chemistry, Patna Women’s College, Patna University in Collaboration with the Department of Chemistry, P. G. Centre, Magadh Mahila College, Patna University, at Patna Women’s College, Patna on December 09-10, 2016.
28. The Indian Science Congress Association, Patna Chapter Sponsored National Seminar on “Science and Technology for National Development” at Indira Gandhi Planatarium, Patna on December 16-18, 2016.

29. Department of Biotechnology Sponsored Workshop on “Star College Scheme for Colleges of Bihar and Jharkhand” organized by Patna Women’s College, Patna University, Patna on January 25, 2018.
30. Hands on Training and Workshop on Application of QUANTITATIVE REAL TIME PCR”, Organized by Mahavir Cancer Sansthan and Research Centre, Patna on February 08-09, 2018.
31. Patna University Centennial Celebration- National Seminar on “Environmental Challenges: Monitoring, Assessment and Remediation” Organized by the Department of Zoology, Patna University, Patna in Collaboration with Centre for Environment and Energy Development (CEED), Patna & Patna Science College, Patna University, Patna at Patna Science College, Patna on March 21-22, 2018.
32. National Seminar on “Research Frontiers in 21<sup>st</sup> Century”, Organized by Bihar National College, Patna University on May 29-30, 2018.