


## Curriculum Vitae

<b>Full Name</b>	Dr. Babita Patni		
<b>Designation</b>	Assistant Professor		
<b>Department</b>	HAPPRC		
<b>Campus</b>	Birla campus		
<b>Telephone</b>	7895630389		
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<b>Email</b>	<a href="mailto:babita28paatni@gmail.com">babita28paatni@gmail.com</a>		
<b>Education Qualification</b>	Ph.D (2011), G. B. Pant University of Agriculture and Technology, Pantnagar		
<b>Teaching Experience</b>	10 Years	<b>Research Experience</b>	__13__ Years
<b>Areas of Interest/ Specialization</b>			
<ol style="list-style-type: none"> <li>1. Plant Tissue Culture</li> <li>2. Plant Nutrition</li> <li>3. Allelopathy</li> <li>4.. Biochemical Methods</li> </ol>			
<b>Honours &amp; Awards</b>			
<ol style="list-style-type: none"> <li>1. Teaching Assistantship in M.Sc for three semesters.</li> <li>2. Topper in B.Sc (Kumaon University )in batch 2006.</li> <li>3. First rank holder in M.Sc Plant Physiology and Biotechnology (81%)</li> <li>4. First rank holder in Ph.D Plant Physiology and Biotechnology (88%)</li> <li>5. Qualified <b>GATE-2008</b> with percentile of 86.67</li> <li>6. Qualified <b>ICAR-SRF- 2008</b> with fellowship (<b>All India Rank-4</b>)</li> <li>7. Qualified <b>ARS-NET 2009</b>, in Plant physiology and plant biochemistry</li> <li>8. Qualified <b>ARS-NET 2010</b> in Basic plant sciences</li> <li>9. Qualified <b>CSIR-NET-JRF 2010</b> in Life sciences (<b>All India Rank-164</b>)</li> </ol>			
<b>Member of Academic Institutions</b>			
1.NIL			
<b>Membership of Scientific Organization</b>			
NIL.			
<b>Research Supervision (No. of Ph.D. Degree Awarded/ Registered)</b>			
<b>01</b>			
<b>Research Projects/ MoU undertaken</b>			
1.			
SL.No.	Title of project	Funding Agency	Amount

1.	<b>BIOFORTIFICATION OF RICE GRAINS WITH ZINC BY THE APPLICATION OF PLANT GROWTH PROMOTING RHIZOBACTERIA AS ZINC SOLUBILIZING AGENTS</b>	UGC UNIVERSITY GRANT COMMISSION (completed)	06 lakhs
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#### **Administrative Experience**

- (02 )years in **Admission and Counselling committee** in Lovely professional university punjab
- (01 )years in **Teachers association committee** in Srinagar ,Garhwal
- (01) years in **Election committee Board in Srinagar**, Garhwal
- (08) year as **warden** in Alaknanda girls hostel,Srinagar ,Garhwal

#### **Scientific Visits Abroad/International Collaboration**

NII

#### **Conference/Symposium/Workshop Attended during last five years (2014-2019).**

##### **National**

- Participated in Advance Training Program on SPSS organized by Department of Statistic, H.N.B.Garhwal University, Srinagar, Garhwal (30<sup>th</sup> -31<sup>st</sup> Jan 2014)
- Participated and presented paper in **National Conference on Recent Advances in Biosciences and Drug discovery** organized by Department of Pharmaceutical Sciences held Gurukul Kangri University, Haridwar (3-4 March 2014) .
- Participated in **National Conference on Contemporary Issues In Biotechnology Programs And Future Applications** at Amity university Haryana(2/4/2014).
- Participated in **UGC sponsored 28 days Orientation Training Program** in Laxmi Bai National institute of physical education college at Gwalior from(2/09/14 - 29/09/2014)
- Attended **15 days Hands on training** in Bose Institute ,kolkotta in “Diagonistic of Medicinal potential and DNA Fingerprinting In plants” from 1-15 November 2016
- Participated in **UGC sponsored 21 days Refresher course Program** in University of Calcutta at Kolkotta from (23/12/2016 – 13/01/ 2017)
- Participated in National Conference in Uttaranchal university at Dehradun in

27/02/17-28/02/017)

- Participated in **Rajasthan Science Congress** on Science & Technology for Sustainable Development of State of Rajasthan at Rajasthan in 13/10/17 -15/10/17.
- Participated in **Short Term course** on Open Educational Resources in higher Education. in H.N.B Garhwal University. (04/09/2017 – 09/09/ 2017).
- Participated in **Short Term course** on Moocs and E-content Development in University of Jammu held on (22/10/2018 – 27/10/ 2018).
- Participated in **Short Term course** on Research methodology in H.N.B Garhwal University held on (10/12/2018 – 16/12/ 2018).
- Participated in National conference on **Innovative approaches in microbial Technology(IAMT-2019)** in Gurukul kangri Haridwar held on (08/03/2019 – 09/03/2019).
- Participated in National conference on **Challenges and opportunities in research and development in pharmaceutical and Biological sciences** in IDPL Rishikesh. held on 07/11/19.
- Participated in **Refresher course Program** on Multidisciplinary Approaches to address environmental issues:Emerging Trends in physical ,Biological and social sciences in H.N.B Garhwal University held on (12/09/2019 – 25/09/ 2019).

**Conference/Symposium/Workshop Organized during last five years (2012-2017)**

1. NIL

**Total Number of Research Publications:**

Chandra,H, **Patni,B** ,Srivastava,J Nautiyal,A.R and Nautiyal M.C. **2014** . 16s RNA gene sequencing *Bacillus cereus* HAPPRC B4 was done and gene sequencing was submitted to Gene bank, NCBI, USA (Submission ID 1734312) (Accession number KM036215)

Chandra,H.,**Patni,B.**, Srivastava,J., Nautiyal,A.R and Nautiyal M.C. **2014**. 16s RNA gene sequencing of *Achromobacter xylosoxidans* HAPPRC K4 was done and sequence is submitted to Gene bank, NCBI, USA (Submission ID 1734319) (**Accession number** KM036216)

Sharma,A.,**Patni, B.**, Shankhdhar,D and Shankhdhar,SC. **2015**. Evaluation of different PGPR strains for yield enhancement and higher Zn content in different genotypes of rice (*Oryza sativa*.L).*Journal of plant nutrition*. 38(3):456-472 (Impact factor 0.59)

**Patni,B** and Chandra,H. **2016**. Identification of phytochemical contents and antimicrobial activity in saraca asoka leaf extract leaves *Environment conservation journal*.17(3):17-24.

Chandra,H.,Dobhal,P.,**Patni,B** and AR nautiyal **2016**.Antagonistic effect of *Pseudomonas spp.* isolated from rhizospheric soil of *Picrorhiza kurrooa* (kutki) against phytopathogenic fungi*Medicinal Plants - International Journal of Phytomedicines and Related Industries*. : 8(4)

Chandra,H.,Bishnoi,P.,Yadav,A.,**Patni,B.**,Mishra,A.P.andNautiyal,A.R.**2017**.Antimicrobial Resistance and the Alternative Resources with special Emphasis on Plant-Based Antimicrobials—A Review. *Plants* 10(2):1-11.(Impact factor 2.6)

Agarwal,C, Guru,S.K and **Patni,B.** **2017**. Bioefficacy of herbicides and eucalyptus oil for weed Management and their effect on crop growth in rice (*oryza sativa* L.) *J of plant development sciences* .9(11):991-997.

Chandra,H, Negi,L **Patni,B.**, Maurya,V.K and Pandey,I.P.**2017**. Phytochemical Evaluation and Antimicrobial Activity of *Zanthoxylum armatum* DC, *Solanum nigrum* and *Coriandum Sativum* *UJPAH*. 2(23):24-28.

Chandra,H .,Yadav,A., Prasad,R and **Patni,B.** **2017**. Assessment of microbiological quality of raw medicinal plants used for the preparation of Ayurvedic drugs *Medicinal Plants* .9 (4) :296-300.

Thakur,A., Agarwal,C., Rana,K .,Singh,M and **Patni,B.****2017**. In vitro antimicrobial activity and phytochemical analysis of two species of *Saraca asoca*. *J. Mountain Res.* 12(1) :119-127.

**Patni,B** Panwar,A,S., Negi,P. and Joshi G.K. **2018**. Plant growth promoting traits of psychrotolerant bacteria: A boon for agriculture in hilly terrains. *.Plant Science Today* 5(1): 24-28.

**Patni,B** Chandra,H .,Mishra,A,P., Guru,S.K., Vitalini,S., and Iriti,M. **2018**. Rice allelopathy in weed management-An integrated approach. *Cellular and molecular*

*biology*.64(8) :84-93.(Impact factor 1.3)

**Patni ,B.**, Guru,S.K., Iriti,M and Vitalini,S. **2019**. Elicitation of the Allelopathic Potential of Rice by Methyl Salicylate Treatment.. *Applied science*. 9, 4881;doi:10.3390/app9224881.( Impact factor 2.2)

Singh, P.Bhattacharyya,M. and **Babita Patni 2020** In-virto exploration ofsignificance of salinity stress in enhancing the antioxidant capacity of Rauwolfia serpentine(L). *Plant cell biotechnologyand molecular biology* 21(15 -16) 89 -97

Thapliyal,J.,**Patni,B.** **2020**.Environmental change and health impact associated with covid - 19 in India. *BIOINFOLET-A Quarterly Journal of Life Sciences*. 17,(2) ,240 – 245

Singh.P and **Patni.B.2020**. Elucidating the effect of salinity stress in enhancing the phenolic acid content in Rauwolfia Serpentina in vitro. *Journal of stress physiology and Biochemistry*. 16,(3), 103 – 110.

Kumar,S.,Singh,K.,Joshi,A .,Gautam,A.S., **Patni,B** and Panwar.M.S.**2020**. A review of studies on coronavirus (COVID – 19) and its transmission *Journal of science and technological researches*. 2(1).

**Patni.B.2020**. Rice allelopathy: Potential power for weed suppression. *Bioinfolet-A Quarterly Journal of Life Sciences*. 17(2) 284-289.

Bhattacharyya,M and **Patni,B.** **2020**. Plant lectins have antagonististic effect against corona virus family :natural products can control coronaviral infections :A review. *International journal of agricultural technology*.16(5):1077-1088.

**Patni,B.** **2020**. Elucidating the Significance of Nitrogen requirements in Rice Cultivation: Review. *Jour Pl Sci Res* **36 (1-2)** 1-9 2020

Bhattacharyya,M and **Patni,B.** **2020**.Effect of salinity stress on growth performances cellular respomses and antioxidant production capacity of medicinal plants . *Jour Pl Sci Res* 36 (1-2) .285-291.

**Patni,B.**,Thapliyal,J and Gautam A.S. **2020**.Elucidating The Effect Of Aerosol Particles On Plants. *International Journal of Disaster Recovery and Business Continuity* 11(1):3054–3074.