

## Curriculum Vitae

**DR. SAPNA BAGHEL**

Designation: Assistant Professor

College: Shivaji Science College, Congress Nagar Nagpur

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Address: Flat no. 204, Satyam Orchid, Satyam Gardens, Godhani Road, In front of Manaswi Hospital, Nagpur Pin: 441123

### **Teaching Experience**

- Experience of 2 Years as an Assistant Professor in PG department (Microbiology) and UG department (Biotechnology) of Shri Shivaji Science College, Nagpur.

- M.Sc. Biotechnology/Botany/Bioscience at Department of Biological Sciences, Rani Durgavati University, Jabalpur, M.P., India. (2010 to 2014).

### **Educational Experience**

<b>Degree</b>	<b>Institution Conferring</b>	<b>Board / University/ Department</b>	<b>%Marks</b>
<b>Ph.D. (Biotechnology)</b>	Rani Durgavati Vishwavidyalaya, Jabalpur, M.P.	Deptt. of Bioscience, Rani Durgavati Vishwavidyalaya,, Jabalpur, M.P.	<b>Awarded</b>
<b>M.Sc. (Biotechnology)</b>	R. D. University, Jabalpur (M.P.)	Deptt. of Bioscience, Rani Durgavati Vishwavidyalaya,, Jabalpur, M.P.	<b>76.5%</b>
<b>B.Sc. (Biotechnology)</b>	Govt. M. H. Science College, Jabalpur, M.P.	Rani Durgavati Vishwavidyalaya, Jabalpur, M.P.	<b>61%</b>
<b>HSC (10+2)</b>	Govt. H. S. School Dhanora (Seoni)	Board of Secondary Education M. P. (2004)	<b>72%</b>
<b>SSC</b>	Govt. Girls H. S. School Dhanora (Seoni)	Board of Secondary Education M. P. (2002)	<b>77%</b>

## DISSERTATION

### **“In vitro regeneration of ‘Ashwagandha’ [*Withaniasomnifera*(L.) Dunall] & DNA isolation from regenerated and seedling grown plants”**

Under the guidance of -  
Dr. Y. K. Bansal  
Professor  
Rani Durgavati Vishwavidyalaya, Jabalpur, M.P.  
E.mail ID: [yogendrakhbansal@rediffmail.com](mailto:yogendrakhbansal@rediffmail.com)

## Ph.D. THESIS

### **“In vitro regeneration, fatty acid profiling & genetic analysis (RAPD) of a new source of biodiesel viz. *Guizotiaabyssinica* Cass. (niger)”**

Under the guidance of -  
Prof. Y. K. Bansal  
HOD, Bioscience Department  
R. D. University, Jabalpur  
EmailID: [yogendrakhbansal@rediffmail.com](mailto:yogendrakhbansal@rediffmail.com)

## FELLOWSHIPS CONFERRED

### **RGNF fellowship University Grants Commission (UGC), New Delhi in Science**

*In vitro* regeneration & genetic analysis (RAPD) of biodiesel plant- Niger (*Guizotiaabyssinica*Cass).

## RESEARCH EXPERIENCE

Two year experience as a RGNF- JRF (31.03.2010- 31.03.2012) UGC

Two year experience as a RGNF- SRF (31.03.2012- 31.03.2014) UGC

## TRAININGS UNDERTAKEN

Attended Two weeks Training on Biotechnology and Plant Tissue Culture at SFRI Jabalpur (M.P). January 2006.

## WORKSHOP/ CONFERENCES/ SYMPOSIA ATTENDED

1. Participated in National Science Day Celebration Week by MP Biotechnology Council, Bhopal, M.P. (13- 28 February 2008).
2. Participated in the SAARC Workshop on Biodiversity Conservation at Banaras Hindu University, Varanasi (U.P.) (21-22 September 2010).
3. Participated in National Seminar on Current Advances in Bioscience: Application in Health, Environment and agriculture, HitkariniMahilaMahavidyalaya, Jabalpur,

Madhya Pradesh (23-24 November 2010).

4. Participated in 34<sup>th</sup> All India Botanical Conference at Lucknow University Lucknow, U. P. (10 - 12 October, 2011).
5. Participated in 35<sup>th</sup> All India Botanical Conference at M.S. University Baroda, Vadodara, Gujarat (8 -10 December 2012).
6. Presented Poster in 100<sup>th</sup> Indian Science Congress, Calcutta University, Kolkata (3-7 January 2013).
7. Presented Paper in Biotechnology section in 28<sup>th</sup> M.P. Young Scientist Congress by MP Biotechnology Council, Bhopal, M.P. (28 February- 1 march 2013).
8. Presented Paper in national seminar on Frontiers in modern biology: from discovery to application, held at St. Aloysius College (Autonomous), Jabalpur (6-7 September 2013).
9. Participated in State Level Workshop on “Entrepreneurship: Gateway of Science Scholars (EGSS-2022)” held on 20<sup>th</sup> December 2022
10. Attended ‘Indian National Science Congress’ held from 3<sup>rd</sup> -7<sup>th</sup> January, 2023
11. Attended one-day National Symposium on NEP held on 16<sup>th</sup> December 2023.
12. Attended the state level workshop on “Career Crafting in Sustainability Management” held on 7<sup>th</sup> March, 2024.
13. Attended one day workshop on “Techniques in Molecular Biology” in collaboration with HiMedia Laboratory held on 20<sup>th</sup> April 2024.

#### **CERTIFICATE COURSES**

Cell Biology: Cellular organization, Division & Process by NPTEL

#### **ACHIEVEMENTS**

1. Secured Elite position in NPTEL online certificate course in Cell Biology: Cellular organization ,Division & Process in 2024
2. Got 1st position in oral presentation in national seminar on Frontiers in modern

biology: from discovery to application, held at St. Aloysius College (Autonomous), Jabalpur (6-7 September 2013).

## RESEARCH PUBLICATIONS

1. Bansal, Y. K. and **Baghel, S.** (2010). *In vitro* propagation of apical buds of Ashwagandha (*Withaniasomnifera*(L.) Dunal). *Jour Indian Bot Soc* 89 (3&4): 236-241.
2. **Baghel, S.** and Bansal, Y. K. (2013). Micropropagation and *in vitro* flowering of a biodiesel plant niger (*Guizotiaabyssinica* Cass.). *Asian J Exp Bioll Sci* 4(4): 532-539.
3. **Baghel, S.** and Bansal, Y. K. (2014). Synergistic effect of BAP and GA<sub>3</sub> on *in vitro* flowering of *Guizotiaabyssinica* Cass.-A multipurpose oil crop. *Physiol Mol Biol Plants* 20(2): 241-247.
4. **Baghel, S.** and Bansal, Y. K. (2015). Thidiazuron promotes *in vitro* plant regeneration and phytochemical screening of *Guizotiaabyssinica* Cass. - a multipurpose oil crop *WJPPS* 4 (1):11931217.
5. **Baghel, S.** and Bansal, Y. K. (2015) *In vitro* regeneration of oil yielding plants – A review. *J Essential Oil Bearing Plants* 18 (5): 1022-1050.
6. **Baghel, S.** and Bansal, Y. K. (2017). *In vitro* regeneration of *Guizotiaabyssinica* Cass. and evaluation of genetic fidelity through RAPD markers. *South African J Botany* 109: 294-307.

## ABSTRACTS

1. Baghel, S. and Bansal, Y. K. (2010). Micropropagation of Ashwagandha (*Withaniasomnifera*L. Dunal): an important medicinal plant. In: National Seminar on Current Advances in Bioscience: Application in Health, Environment and Agriculture, Deptt. Of Botany, HitkariniMahilaMahavidyalaya, Jabalpur. 69, p.
2. Baghel, S. and Bansal, Y. K. (2013). *In vitro* regeneration of biodiesel plant *Guzotiaabyssinica*Cass. Trough direct and indirect methods. In: National seminar on

Frontiers in modern biology: from discovery to applications. St. Aloysius' College, Jabalpur. 95-96, p.

3. Baghel, S. and Bansal, Y. K. (2013). *In vitro* regeneration and multiple shoot induction in *Guizotia abyssinica* Cass. 100<sup>th</sup> Indian Science Congress, Kolkata.
4. Baghel S. (2013). The effect of cytokinins types and their concentration on *in vitro* multiplication of niger (*Guizotia abyssinica* Cass ). 28<sup>th</sup> M.P. Young Scientist Congress by MP Biotechnology Council, Bhopal. 119, p.
5. Baghel S. (2012). *In vitro* multiple shoot formation in a biodiesel plant niger (*Guizotia abyssinica* Cass) 35<sup>th</sup> All India Botanical Conference at M.S. University Baroda, Vadodara (Gujarat). 210, p.
6. Baghel S. (2011). Multiple shoot regeneration and *in vitro* flowering in multipurpose oil crop *Guizotia abyssinica* Cass. 34<sup>th</sup> All India Botanical Conference at Department of Botany, University of Lucknow, Lucknow .

#### PERSONAL DETAILS

Husband's Name: Sandeep Baghel .

Date of Birth: 15th March 1987.

Gender: Female.

Marital Status: Married

Nationality: Indian.

#### DECLARATION

I hereby declare that the above-mentioned information is correct as per my knowledge and I bear the responsibility for genuineness of the above mentioned particulars



**Dr. Sapna Baghel**