

## Extracurricular Activities

Guest Lectures, Field & Lab visits, Seminars and Workshops are also organized by the Department for the development of scientific temperament in the students. Exposure and interaction of students with renowned national and international personalities of Biotechnology intend them for enthusiastic R&D in the subject.

## Alumni Association of Biotechnology

The alumni association of this School exists since 2010. It has registered under the Firm and Societies, Govt. of Chhattisgarh, Raipur dated 05/05/2014 and Registration No. 29709. More than 100 members have joined the association and 75 members have been registered in the association as Life members. Most of the Alumni are working in various Government and private organizations in different capacities. This Association now publishing a half-yearly journal 'NewBioWorld: Journal of Biological Sciences'. <http://newbioworld.org/>

## Facilities and Glimpses of the School



## Contact us-

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# School of Studies in Biotechnology

(A DST FIST-Supported School)



**Pt. Ravishankar Shukla University  
Raipur 492 010, Chhattisgarh**

Accredited Grade "A" by NAAC (CGPA 3.02)

NIRF Ranking: Band 101-150



## About School

The School came into existence in the year 2004 and Prof. K. L. Tiwari was appointed as Head of the Department to give it a proper shape. The School comes under the faculty of Life Sciences and offers post graduate as well as research degree (Ph.D.) In Biotechnology.

## Vision & Mission of the School

- » To establish this School as "Centre of Excellence" in terms of both teaching and research, in the realm of Biotechnology.
- » To establish academic collaborations with the peers of the subject as well as organizations of repute, located nationally and internationally.
- » To make the teaching-learning process more effective, transparent and interesting, by incorporating latest ICT aids, organizing quizzes, academic competitions, etc.

## Programs Offered

Ph. D.

M. Sc.

CBCS (Biotechnology)

Admission as per the University Ordinance through Entrance Examination.

\*The School offers short-term and long-term training/dissertation program to UG/PG/Other students in the core areas of biotechnology

## Faculties

Names	Position	Specialization
Dr. SK Jadhav	Prof.	Fungal Biotechnology, Biofuel & Env. Biotechnology
Dr. Keshav Kant Sahu	Prof. & Head	Stress Biology, <i>Ex-situ</i> Conservation & Bioremed.
Dr. Afaque Quraishi	Asst. Prof.	Plant Biotechnology, Plant Virology & Phytoremed.
Dr. Kamlesh Shukla	Asst. Prof.	Bio-fertilizer & Mushroom Technology
Dr. NK Chandrawanshi	Asst. Prof.	Plant Biotechnology & Mushroom Technology
Dr. JS Paul	Asst. Prof. (Cont.)	Bioprocess Engineering & Env. Biotechnology

## Research Grants obtained

This School is the recipient of DST-FIST (Level I) grants (2014-19) from DST, New Delhi. It has also received research grants from various funding agencies like UGC, DRDO, DBT, CG Govt., CGCOST, etc.

## Academic Achievements

Students of this School are honoured by securing various research fellowships like: DST-INSPIRE, CSIR-JRF, UGC-JRF, UGC-RGNF, DBT- JRF, University Research Fellowships and also placed in different National and State Govt. Agencies.

## Score Card: At a Glance

Publications	Projects/ Grant	H-Index	CIF	Placements	CSIR/DBT/UGC NET	Ph D	M Phil
219	16/ Rs 144.37 Lakh	22	196.046	88	56	39	71

As on June, 2021

## Thrust Areas/ Research Laboratories

### Bioprocess Laboratory



The lab is pioneering the infinite prospect of the microbial fermentation process. Work on advances in bioenergy production like bioethanol, bioelectricity, biohydrogen, etc., exploiting different microbes and novel substrates. Apart, research on bioremediation of heavy metals following fungal strains is also being done.

### Fungal Biotechnology Laboratory



Involved in bioprospecting of endophytic fungi; establishment of the axenic culture of arbuscular mycorrhiza; and mushroom biology. Study of Agaricales in Central India, their identification and germplasm conservation are on the way. Attempting to screen bioactivity of endophytic fungi, and has expertise in *in-vitro* mass production of arbuscular mycorrhiza.

### Plant Biotechnology Laboratory



Engaged in developing *in-vitro* propagation protocols and enhanced production of secondary metabolites via elicitation in various species; *C. borivillianum*, *C. caesia*, *B. lanzan*, *Z. armatum*, *G. superba*, *A. calamus*, etc., those are endangered or difficult to propagate. Working on the elimination of banana bunchy top virus from infected banana cultures.

### Mushroom Technology Laboratory



Work on propagation and conservation of mushroom, and medicinal plants. Identification of alternative spawns and substrates for mushroom cultivation is underway. Investing efforts to enrich mushrooms with added metabolites and minerals. Moreover, trying to screen potent bioactive's which can be useful for pharmaceutical industries.

### Stress Biology and Germplasm Conservation Laboratory



Assess molecular alterations, through protein profiling, gene expression, etc., takes place in abiotic stressed seeds/ seedlings. Attempting to identify measures like nanomaterials, carbon dots, etc. to confer stress tolerance in tissues. Trying to derive conditions for germplasm conservation, and capture novel organisms, which will reduce xenobiotics toxicity along with plant growth promotion.

## Available Facilities

Specified research laboratories and sophisticated instruments available are- Gel Doc system, Inverted Microscope, Thermocycler, UV Transilluminator, CO<sub>2</sub> Incubator, UV-Vis Spectrophotometer, High-Speed Centrifuge, HPLC, MiliQ Water Purification System, Spectrofluorometer, Bio Safety Cabinet, Digital Microscope, Cryocans, ELISA reader, Electrophoresis System, Orbital Shaking Incubator, Air Sampler, Spectroquant Nova 60, Water Quality Analyzer PE 138, EC-TDS Analyzer CM 183, Deep Fridges (-20 & -80°C), Automated Plant Tissue Culture Lab, Medicinal Plant Incubation Centre, etc.

## Library

The School is having its own library which includes hardbound and electronic copies of featured books of biotechnology. Moreover, thousands of e-journals are available through the UGC-INFLIBNET network via University Central Library.