

CURRICULUM VITAE

Rakesh Kumar Shukla (Ph.D)

Principal Scientist (from 2018-till date), Plant Biotechnology division
CSIR-Central Institute of Medicinal and Aromatic Plants (CSIR-CIMAP)

E-mail: rk.shukla@cimap.res.in;

mobile number 9838653840

Awards & Honors:

INSA Medal for Young Scientist Award year 2010 in Plant Science.

Prof. LSS Memorial Award (INSA) 2010 for standing First in Plant Science candidates.

BOYSCAST Fellowship 2010: Worked at John Innes Centre for one year with Prof. Cathie Martin (2010-2011).

NASI Young Scientist Platinum Jubilee award 2012 in Plant Science.

Educational qualification:

S.No.	Degree	University/ Board
1	B.Sc. Chemistry (Hons)	Banaras Hindu University
2	M.Sc. Biochemistry	Banaras Hindu University
3	Ph.D.	National Institute of Plant Genome Research

Research area and expertise: >15 years in the area of Plant Biotechnology, Biochemistry, and functional genomics (plant secondary metabolism, medicinal plants, transcriptional regulation)

Teaching: > 15 years at CSIR-CIMAP on subject areas plant biotechnology, molecular genetics and functional genomics

Publications (SCI journals):>25 total

International Patents: 1

No of projects handled as PI: 5:

Publications (Latest publications last three years):

(as Corresponding Author) :

1. A Joshi, GS Jeena, RS Kumar, A Pandey, RK Shukla (2022) *Ocimum sanctum*, OscWRKY1, regulates phenylpropanoid pathway genes and promotes resistance to pathogen infection in *Arabidopsis* **Plant Molecular Biology** 110 (3), 235-251
2. GS Jeena, N Singh, RK Shukla (2022) An insight into microRNA biogenesis and its regulatory role in plant secondary metabolism **Plant Cell Reports**, 1-21
3. GS Jeena, S Kumar, RK Shukla (2021) Characterization of MYB35 regulated methyl jasmonate and wound responsive Geraniol 10-hydroxylase-1 gene from *Bacopa monnieri* **Planta** 253 (5), 1-13
4. GS Jeena, A Joshi, RK Shukla (2021) Bm-miR172c-5p Regulates Lignin Biosynthesis and Secondary Xylem Thickness by Altering the Ferulate 5 Hydroxylase Gene in *Bacopa monnieri* **Plant and Cell Physiology** 62 (5), 894-912
5. S Upadhyay, GS Jeena, S Kumar, RK Shukla* (2020) *Asparagus racemosus* bZIP transcription factor-regulated squalene epoxidase (ArSQE) promotes germination and abiotic stress tolerance in transgenic tobacco. **Plant Science** 290, 110291

PhD Supervised: 04 (Names and positions are given below)

1. Dr. Sonal Mishra at PfBIO Norwich research park UK
2. Dr. Ujjal J Phukan: Servo Ochoa Postdoctoral Fellowship at CRAG Spain.
3. Dr. Swati Upadhyay: Assistant Professor Biotechnology Division at RR institute affiliated to AKTU Lucknow.
4. Dr. Gajendra Singh Jeena: Postdoctoral fellow at Plant Plasticity Centre, Seoul National University Korea.