

Bio-data

Name Mrs. Vijaya Koche

D.O.B 31 January 1965

Qualification M.Sc., M.Phil., Ph. D.
Net qualified. (UGC)

Experience Joined SoS Life Sciences in 1990 as Lecturer
Pandit Ravishankar Shukla University, Raipur, C.G

Present Status: Professor in SoS Life Sciences
Pandit Ravishankar Shukla University, Raipur, C.G

Teaching and Research Experience 26 Years

Administrative Experience Nil

Ph.D. recipients			
S.N.	Name	Title	year
1.	Ravindra Kumar	Inheritance and linkage studies of gall	2006
	Verma	midge resistance in some rice varieties of Chhattisgarh.	
2.	Mrs.Aruna	Study of morphology, yield and quality	2009
	Shrivastava	traits of some aromatic genotypes of rice (<i>Oryza sativa</i> L.)	
3.	Bharti Sahu	Studies on <i>in vitro</i> propagation and RAPD	2009
		analysis of <i>Terminalia bellirica</i> (Gartn.) Roxb: An important medicinal tree.	
4.	Amita Sharma	Studies on <i>in vitro</i> regeneration and	2010
		RAPD analysis of <i>Argyreia nervosa</i> (Burm.)F. (Hawaiian Baby Woodrose): An important medicinal plant.	
5.	Preeti Lata Minz	Studies on micropropagation and genetic variation in <i>Andrographis peniculata</i> (Burm.F.) An important medicinal plant.	2010

	Registered Candidates	Title	Year of Registration
1.	Mrs. Sonal Khandelwal	<i>In-Vitro</i> micropropagation and RAPD of <i>Cissus quadrangularis</i> (Linn.)	2011
2.	Seema Upadhyay	Elicitation of Antioxidant activity and secondary metabolite in <i>Clerodendrum serratum</i> L. through <i>in vitro</i> Micropropagation	2013
3.	Mrs. Pravesh Soni	<i>In vitro</i> micropropagation , RAPD and AFLP Of <i>Aegle marmelous</i> Linn.	
4.	Rashmi Sharma	Studies on genetic variation & micropropagation in <i>Tinospora cordifolia</i> (Willd.) Hook f & Thomson. An important medicinal plant.	
6.	Mrs. Eram Fatima Khan	Studies on <i>in vitro</i> propagation and RAPD analysis of <i>Jatropha curcus</i> Linn.	2011

Publications

1. Quraishi, Afaque., Bagh. K., Koche, Vijaya. & Mishra, S. K. Effect of adjuvant on *in vitro* shoot production of *Azadirachta indica*. *Bionature*, 24(2), 2004: 73-77.
2. Sharma, P., Koche, Vijaya., Quraishi, Afaque. & Mishra, S. K. Somatic Embryogenesis in *Buchanania lanzan* spreng. *In vitro Cell Developmental Biology- Plant*, 41, 2005: 645-647.
3. Shukla, S. K., Shukla, Susmita., Koche, Vijaya. & Mishra, S. K. *In vitro* propagation of tikhur (*Curcuma angustifolia* Roxb): A starch yielding plant. *Indian Journal of Biotechnology*, 6, 2007, 274-276.
4. Shukla, S. K., Shukla, Susmita., Koche, Vijaya. & Mishra, S. K. *In vitro* regeneration of plantlets and micro tubers from nodal segments of *Dioscorea hispida* (Dennst.) *Plant Cell Biotechnology and Molecular Biology*, 8, 2007, 61-66.
5. Verma, Neelambara., Koche, V., Tiwari, K. L. & Mishra, S. K.. Plant regeneration through organogenesis and shoot proliferation in *Trichodesma indicum* (Linn.) R.Br.- a medicinal herb. *African Journal of Biotechnology*, 7, 2008, 3632-3637.

6. Verma, Neelambara, **Koche, V.**, Tiwari, K. L. & Mishra, S. K. RAPD analysis reveals genetic variation in different populations of *Trichodesma indicum*- A perennial medicinal herb. *African Journal of Biotechnology*, 8, 2009, 4333-4338.
7. Verma, Neelambara, **Koche, V.**, Tiwari, K. L. & Mishra, S. K.. Random amplified polymorphic DNA analysis detects variation in a micropropagated clone of *Trichodesma indicum* (L.) R.Br. *African Journal of Biotechnology*, 9, 2010, 4322-4325.
8. **Sahu Bharti** and **Koche Vijaya**. (2012). Extraction of tannin by *Terminalia bellirica* (Gaertner) roxb seed from different provenances. *Journal of Phytology*, 4(6): 09-13.
9. **Sahu Bharti** and **Koche Vijaya** (2013). Random amplified polymorphic DNA (RAPD) analysis for genetic diversity in *Terminalia bellirica* species (Roxb.), an important medicinal tree. *Asian Journal of Plant Science and Research*, 3(4):21-27.
10. **Sahu Bharti** and **Vijaya Koche** (2013). In Vitro plantlets regeneration of *Terminalia bellirica* Roxb. important medicinal tree. *Journal of International Research Journal of Biological Science*, 2(11):18-23.
11. **Minz, Preeti Lata.**, Singh, Namita., Mishra, S. K. & **Koche, Vijaya**. (2013). Genetic variability among *Andrographis paniculata* in Chhattisgarh region assessed by RAPD markers. *African Journal of Biotechnology*, 12 (39), 5714 - 5722.
12. **Minz Preeti Lata** and **KocheVijaya** (2012).Variation in Morphological Parameters and Andrographolide Content in *Andrographis paniculata* (Burm.f.) Nees Collected from Different Provenances of Chhattisgarh. *Research journal of Biotechnology*, Vol. 7 (4) pp 168-174.
13. Upadhyay, S. & **Koche, V.** Comparison of different medium and establishment of an efficient micropropagation technique of *Clerodendrum Serratum* L. An Endangered Medicinal Plant. *IOSR Journal of Environmental Science, Toxicology and Food Technology*. 1(2), 2015, 27-35.

Abstract published in conference proceedings

Oral Presentation:

1. **Koche, Vijaya**. (2010). Tissue Culture in *Trichodesma indicum* (L.) R.Br. in International conference in Beijing, China.

2. **Sharma, Amita, Koche, Vijaya** and Mishra, S. K. (2010). *In vitro* regeneration rapid amplification polymorphic DNA analysis detects analysis of micropropagated clone of *Argyreia nervosa* (Burm.)F. in Beijing, China.
3. **Minz PL., Koche V** and Mishra S. K. (2011). Influence of 2, 4-D and BAP on callus growth and the subsequent Regeneration of somatic embryos in *Andrographis paniculata*. National conference on Advances in Biological Sciences organized by Department of School of Life Science, Pt. R. S. S. University, Raipur (C.G) November 5-7, 2011, Pp 81.
4. **Khandelwal, Sonal., Upadhyay, Seema. & Koche Vijaya.** (2014). Comparison of phytoesterol control of *Cissus quadrangularis* L. collected from different provenance of Chhattisgarh, India. Asian plant science conference held at Lumbini Nepal on 1- 3 November.
5. **Upadhyay, S. Khandelwal, S. & Koche, V.** (2014). Comparative study of antioxidant activity and total phenolic content of *Clerodendrum serratum* L. from different provinces of Chhattisgarh. Asian plant science conference held at Lumbini Nepal on 1- 3 November.
6. **Upadhyay S. & Koche, V.** (Sep. 2015). Comparison of different medium and establishment of an efficient micropropagation technique of *Clerodendrum Serratum* L. An Endangered Medicinal Plant. Interdisciplinary International Seminar held at Swami Shri Swaroopanand Saraswati Mahavidyalaya, Hodco, Bilhail.
7. **Upadhyay S. & Koche, V.** (2016). *In vitro* Direct Organogenesis, phenolic content and antioxidant activity of *Clerodendrum serratum* L. An endangered medicinal plant. International conference on ECBA- 2016 held at Hollidays Inn Silom Bangkok, Thailand.
8. **Upadhyay S. & Koche, V.** (2016). Enhanced production of phenolics and antioxidant activity through *in vitro* culture of *Clerodendrum serratum* L. 14th Chhattisgarh young scientist congress held in Bilaspur University, Bilaspur.
9. **Upadhyay S. & Koche, V.** (2016). Correlation between antioxidant activity and total phenolic content of various solvent extracts of *Clerodendrum serratum* L. 3rd international congress of the society for ethnopharmacology, India, Journal of Ravishankar Shukla University, 29, 1 (special issue), 101.

Poster

1. **Minz P. L, Koche V.** (2016). Accumulation of andrographolide from adventitious root culture of *andrographis paniculata* (Burm. F.)”3rd International Congress of the SFEC on “**Ethnopharmacology & Evaluation of Medicinal Plants - Global Perspectives**” held on 19-21 February 2016 organized by National Center for Natural Resources (NCNR), Pt. Ravishankar Shukla University, Raipur-492010, Chhattisgarh, India, Pp no. 106.

2. Sharma, R, Upadhyay, S and Koche V. (2016). The *Caesalpinia bonducella* L. (Caesalpinaceae) Pharmacological characteristics and Phytochemical profiling.”3rd International Congress of the SFEC on “**Ethnopharmacology & Evaluation of Medicinal Plants - Global Perspectives**”held on 19-21 February 2016 organized by National Center for Natural Resources (NCNR), Pt. Ravishankar Shukla University, Raipur-492010, Chhattisgarh, India, Pp no. 193.