

SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE, AKOLA
FACULTY PROFILE

1. **Name** : Dr. DIPAK K. KOCHE
 2. **Address** : 201- Shyamsundar Laheriya Sankul-1
 Mangrulpir Road, Akola
 3. **Phone No./ Cell No.** : 8983027268
 4. **E-mail** : dipakkoche43@gmail.com
 5. **Designation** : Assistant Professor
 6. **Department** : Botany
 7. **Date of Birth** : 15/11/ 1977
 8. **Area of Specialization** : Cytology and Genetics
 9. **Academic Qualification** : M. Sc. Ph. D. NET

Exam Degree	Year of Passing	Percentage	Major Subjects	Specialization (if any)
SSC	1993	77.77%	Marathi, Hindi, English, Maths, Science, Social Science	--
HSSC	1995	58.85%	Marathi, Hindi, English, Maths, Biology, Chemistry, Physics	--
Graduate	1998	74.73%	Botany, Zoology, Chemistry	--
P.G.	2000	75.7%	Botany	Cytology & Genetics
Ph.D	2004	Title of Ph. D. Thesis: Plant Defense Gene Expression in <i>Vigna radiata</i> L. Wilczek.		
NET	2001	CSIR- UGC		

10. Membership of academic organization:

- Life member of Indian Science Congress
- Life member of SGB Amravati University Botany Teachers Association
- Editorial Board Member of- National Interdisciplinary Research Journal.

11. Research Experience: 12 Years:

- a) **Guidance to M. Sc./ M. Phil. Students:** M. Sc. = 07 M. Phil = 00
 b) **Recognized Supervisor for Ph. D. in SGB Amravati University**
 - Students Registered = 01
 - Applied for Registration = 01

c) Research Publications:

C-A] Research Papers published in Peer Reviewed Journals:

Sr. No.	Title of Paper with vol., issue & Page no.	Name of Journal	ISSN no.
1	Regeneration through multiple shooting in <i>Vigna radiata</i> . Vol-3 (NS), 185- 190 (2002)	<i>The J. Cyto. Genet</i>	0253-7605
2	Plant pathogen interaction and plant defense responses at biochemical level, a review. 2(3): 147-155 (2005)	<i>Bioinfolet</i>	0973-1431 NAAS rating 4.2
3	Elicitor induced expression of b-1,3 glucanase and chitinase genes in <i>Vigna radiata</i> (L) Wilczek. 25 (1&2): 69-74. (2005)	<i>Bionature,</i>	0970-9835
4	In vitro induction of latent defense potential genes in CLS susceptible mungbean cultivar-Kopergaon by <i>Adathoda zeylanica</i> leaf extract. 3(1): 48-51. (2006)	<i>Bioinfolet</i>	0973-1431 NAAS rating 4.2
5	Genestein amount in cotyledons and leaves of <i>Vigna radiata</i> (L) Wilczek cultivars and mutants are correlated with resistance to leaf spots caused by <i>Cercospora canescence</i> . 34: 139-145 (2007)	<i>Journal of Plant Biology</i>	1226-9239 IF= 1.6
6	Ethnobotanical and ethnomedicinal survey of Nagzira wild life sanctuary, District Gondia (MS) India- Part I, 12: 56- 69. (2008)	<i>Ethnobotanical Leaflets- International web journal</i>	1948-3570
7	Ethnobotanical and ethnomedicinal survey of Nagzira wild life sanctuary, District Gondia (MS) India: Part- II, 12: 532- 537. (2008)	<i>Ethnobotanical Leaflets- International web journal</i>	1948-3570
8	Selection of early flowering, high yielding and CLS resistant mutant lines from mutagenized <i>Vigna radiata</i> (L.) Wilczek population. 9 (3) : 666- 669. (2009)	<i>Res. on Crops</i>	0975-3238 SJR= 3, NAAS= 6
9	In vitro antioxidant and radical scavenging activity of <i>C. occidentalis</i> leaf extracts. 3(II) 204-209 (2010)	<i>Deccan current Science</i>	0975-3044
10	Search for efficient DNase producing bacteria from soil. 3(II) 162-169 (2010)	<i>Deccan current Science</i>	0975-3044
11	Phytochemical screening of eight ethnomedicinal plants from Akola District (MS). 1(4): 256- 259 (2010).	<i>International journal of Pharma and Biosciences,</i>	0975-6299 IF= 2.95
12	A novel technique for early detection and quantification of Biochemicals in dicot plants, 2(1): 15-20.	<i>Bioscience Discovery</i>	2229-3469 SCV= 12.22 IF= 0.38
13	A petrified coniferian ovule, Deccanovulates, From Mohagaonkalan MP India. 4(1): 226-230. (2011)	<i>Deccan current Science</i>	0975-3044
14	Comparative phytochemical and nutritional analysis of three lamiaceae members, 2(3): 1-4. (2011)	<i>Research J of Pharmaceutical, biological and Chemical Science,</i>	0975-8585 IF= 0.35
15	Trace element analysis and vitamins from an	<i>International Journal</i>	0975-1491

	Indian medicinal plant <i>Nepeta hindustana</i> (Roth) Hains. 3(2): 53-54 (2011)	<i>of Pharmacy and Pharmaceutical Science,</i>	(IF= 1.1)
16	Role of phytochemicals in modern medicine: an insight, 3(2): 245-253 (2011)	<i>Hislopa Journal</i>	
17	Preliminary phytochemistry and antibacterial activity of methanolic extract of <i>Ocimum gratissimum</i> L. 3(1): 20-24. (2012)	<i>Bioscience Discovery</i>	2229-3469 SCV= 12.22 IF= 0.38
18	Induction of hydrolases and Phenylalanin ammonia lyase by pathogen derived elicitors in Mungbean (<i>Vigna radiata</i> L.). 8(1): 11-14. (2012)	<i>Electronic Journal of Biology</i>	1860-3122 IF= 0.86
19	Some phenolics from <i>Salvia plebeia</i> R. Br. 3(1): 61-63 (2012)	<i>Bioscience Discovery</i>	2229-3469 SCV= 12.22 IF= 0.38
20	Preliminary phytochemistry and phenolic compounds of some folk medicinal plans.	<i>International J of Research in Ayurveda & Pharmacy</i>	2229-3566 ICV= 6.33
21	Phytochemistry of <i>Leonotus nepetifolia</i> : a wild medicinal plant of Lamiaceae, 3(2):197-198. (2012)	<i>Bioscience Discovery</i>	2229-3469 SCV= 12.22 IF= 0.38
22	Investigation on sexual status of <i>Colebrookea oppositifolia</i> : a less known ethnomedicinal plant (2012)	<i>Journal of Research studies</i>	2230-7532
23	Preliminary phytochemistry and bactericidal activity of <i>Leucas aspera</i> S. 3(1): 76-78 (2013)	<i>International J. of Pharmacy & Biol. Science</i>	2230-7605 IF= 0.55
24	Mutagen induced CLS (<i>Cercospora</i> leaf spot) resistance in Mungbean	<i>Journal of Biological & Chemical Res.</i>	970-4973 IF =0.945
25	Two bioactive compounds from leaf extract of <i>Colebrookea oppositifolia</i> Smith. 29(1): 61-65. (2014)	<i>Indian J. Applied & Pure Bio.</i>	970-2091 NAAS = 4.2
26	Preliminary phytochemistry and antimicrobial activity of <i>Salvia plebeia</i> R. Br. & <i>Colebrookea oppositifolia</i> Smith 20(1): 21-24.	<i>International J of Pure and Applied Sci. & Tech</i>	2229-6107
27	Preliminary Phytochemical Analysis of Seven Ethno-Medicinal Plants from Central Maharashtra	<i>New Interdisciplinary National Res. Journal</i>	2279-0349
28	Investigation on sexual status of <i>Colebrookea oppositifolia</i> : A less known ethnomedicinal plant	<i>Journal of Reseach studies</i>	2230-7532

C-B] Full Length Research Papers published in Conference Proceedings:

Sr. No.	Title of Paper with Page no.	Name of Journal	Editors/ Publisher
1	Potential biochemical markers for selection of disease resistance in <i>Vigna radiata</i> . pp. 263-265. (2001)	<i>Proc. NAARRI International Conference on Application of radioisotopes and radiation technology in 21st century</i>	N. Ramamoorthy, M. Ananthkrishnan,

2	Induced mutants in <i>Vigna radiata</i> (L) Wilczek. 265-268. (2001)	<i>Proc. NAARRI International Conference on Application of radioisotopes and radiation technology in 21st century</i>	A. N. Nandakumar BARC Mumbai
3	A critical evaluation of Ambedkars view on Buddhism	Proceeding on International Interdisciplinary conference "Dr. Bahasaheb Ambedkars Buddhism and its emancipatory potential"	ISBN: 97881-922414-5-6

C- C] Research papers/ Articles published as Chapters in Books:

Sr. No.	Title of Chapter with Page no.	Name of Books	ISBN no.
1	Enumeration of ethnomedicinal plants Diversity from Akola and Washim District. pp- 91-96	Innovative Research Trends in Biological Sciences	978-81-923621-0-6
2	<i>Salvia plebeia</i> R. Br. A small herb with enormous medicinal potential- A review. pp- 113-114	Innovative Research Trends in Biological Sciences	978-81-923621-0-6
3	Some genetic and molecular aspects of resistance in plants. pp- 423-429	Innovative Research Trends in Biological Sciences	978-81-923621-0-6
4	Antibacterial activity of some important Lamiaceae members from Maharashtra (India). pp-761-763	Innovative Research Trends in Biological Sciences	978-81-923621-0-6
5	Tribal herbal remedies for snake bite. pp-772-776	Innovative Research Trends in Biological Sciences	978-81-923621-0-6
6	Phylogenetic studies on <i>Vibrio Metschnikovii</i> - a DNase producing bacteria. pp- 597-600	Innovative Research Trends in Biological Sciences	978-81-923621-0-6
7	Essential oil analysis of medicinal spice gift- <i>Zingiber officinale</i>	Innovative Research Trends in Biological Sciences	978-81-923621-0-6
8	Role of Secondary metabolites in plants Defense mechanism. pp- 1-16	A Glimpse of Current vistas in plant Science Research [Hislop Publishing, Nagpur]	978-81-910409-6-8
9	Plant pathogen interaction and plant disease resistance genes. pp- 249-255.	Plants and microbes ... an innovative approach [SBN Publishers, Delhi]	978-81-85708-30-0

C-D] Books and Author/ Coauthor/ Editor:

Sr. No.	Title of Book	Name of Publication	ISBN no.
1	Innovative Research Trends in Biological Sciences [Chief Editor]	Pt. Nehru Study center, Akola	978-81-923621-0-6
2	A text Book of Botany: Angiosperm Systematics, Anatomy and Embryology [as Co-author]	Nabh-Prakashan, Amravati	978-81-905776-250-6
2	A text Book of Botany: Molecular Biology and Biotechnology [as Co-author]	Nabh-Prakashan, Amravati	978-81-905776-102-1

C-E] Patent scored:

Patent Issue No. : A- MU/ 0756.

Patent No. 196087

Date of Issue: 10th December 2002

Title: A Process for Novel Multiactive, Biodegradable and Sustained Release Formulation for Agricultural Application.

12. Seminars/ Conferences/ Symposia/ Workshops attended:

Sr. No.	Name of Conference/ Seminars/ Symposia etc.	Sponsoring agency	Place and Date	Attended/ Paper Presented
1	International conference on Plant Science with Special reference to Biodiversity and Conservation	UGC	PGTD Botany, Amravati Uni. Amravati (17-19 Feb. 2005)	Awarded under young Scientist category for best poster presentation
2	XXV Annual Conference of IAAT	IAAT & UGC	PGTD of Botany, Nagpur Uni. Nagpur	Ethnomedicinal Survey of Nagzira Wild life sanctuary
3	XXIX Annual Conference of Indian Botanical Society	IBS & UGC	Dept. of Botany, Mohanlal Sukhadia Uni. Udaipur (9-10 Oct. 2006)	In vitro induction of Latent Defense----- by A. zeylanica leaf extract
4	National conference on modern approaches in Biotechnology & Biodiversity conservation	UGC	Dept. of Life Sciences, Shivaji Science College, Amravati (28-30 Jan 2007)	Two euphorbian members----- Pathogenesis related Proteins in Cicer----
5	State level conference on environment	UGC	Shri Shivaji College of Arts, Com. & Sci. Akola (4 th Feb. 2007)	Attended
6	National Seminar on recent innovation in Herbal drugs	UGC	Mahatma Fule College Warud (24 th Jan. 2009)	Attended
7	A National Seminar on Teaching Basic and Applied Sciences	UGC	Phulsing Naik College, Pusad (3 rd Jan. 2009)	Three basics of ----- Current Scenario
8	National Symposium on Molecular biology and Bioinformatics	UGC	PGTD of Biochemistry, Nagpur Uni. Nagpur (20 th Dec. 2005)	Attended
9	Short term training program on Genetic engineering	DBT	PGTD of Biotechnology, SGB Amravati University, Amravati (15-21 Feb. 2009)	Active Participation
10	State level seminar on expanding wings of Mathematics in the field of Science and social sciences	UGC	R. L. T. College of Science, Akola	Attended

11	First Indian Biodiversity Congress	CISSA, Kerla State Biodiversity Board	Trivendrum, Kerala (India) 27-30 Dec. 2010	Ethnobiology and Sexual status of <i>Colebrookea oppositifolia</i>
12	XXXIII Annual Botanical Conference	BSI	PGTD Botany, Shivaji Uni. Kolhapur 9-11 Nov. 2010	Attended
13	NCBBT- 2010	UGC	Shri Shivaji College, Akola 6-7 Feb. 2010	Attended
14	Trends in plant Science: Today and Tomorrow	UGC	Shri Shivaji College, Akot 22-23 Feb. 2010	A fossil ovul----- ----
15	National conference on current trends global challenges in germplasm conservation and biodiversity	UGC	PGTD of Botany, RTM Nagpur University, Nagpur 7-8 July 2010	Diversity of medicinal plants from Akola region
16	International conference of International organization of Plant Biosystematics	IOPB, IAAT, IAPT, BSI	PGTD of Botany. BAMU, Aurangabad 2-4 Sept. 2010	Trace elements and vitamins from <i>Nepeta hindostana</i> .
17	National conference on Climate change & its consequences	UGC	Bhartiya Mv. Amravati (2010)	Photo Presentation
18	National Seminar on Status of Biodiversity in India	UGC	Dept. of Botany, RDIK College, Badnera 10-11 Dec. 2011	Some antidotal plants from Melghat
19	Seminar on Eco-diversity and its management	Botany Teachers Association, Amravati Uni.	PGTD of Botany, SGB Amravati University, Amravati 29 th Feb. 2012	Attended
20	National conference on Recent trends in Biosciences	UGC	G. S. College, Khamgaon (27-28/07/2012)	Attended
21	National conference on Innovative research trends in Biological Sciences	UGC	Dept. of Life Science, Shri Shivaji College, Akola. 8-9 Sept. 2012	Some genetic and molecular aspects of resistance in plant
22	National conference on Impact of climate change on agriculture Production in India	UGC	Dept. of Economics, Shri Shivaji College, Akola (06/10/2012)	Attended
23	Annual conference of IAAT	IAAT, UGC	PGTD of Botany, SGB Amravati University, Amravati 28-30 Oct. 2012	Attended
24	National Seminar on Effect of Climate change on Biodiversity	UGC	Dept. of Botany, D. B. Science, College, Gondia (27/01/2013)	Attended
25	XXIII Annual Conference of	IAAT,	PGTD of Botany,	Awarded for best

	IAAT and National Seminar	UGC	RTM Nagpur University, Nagpur 28-30 Dec. 2013	poster presentation
26	National Seminar on Advances in Plant Sciences	UGC	PGTD of Botany, RTM Nagpur University, Nagpur 29/10/2014	--
27	National conference on Aspects and Appraisal in plant Science	BTA, Amravati	Dept. of Bot. Arts, Sci. college, Shirpur Jain (15/03/15)	Oral Presentation

13. Research Projects Completed/ Ongoing:

Sr. No.	Title	Agency	Period	Amount mobilized	Status
1	Investigation of immuno-stimulant activity of some herbal elicitor	UGC 47-424/2004	2004-2006	75,000/-	Completed
2	Investigation of antimicrobial activity and preliminary phytochemistry of some novel lamiaceae member having ethnomedicinal importance	UGC 47-433/08 (WRO)	2007-2009	1,30,000/-	Completed
3	Search for bioactive phytochemicals and in vitro regeneration studies of some Lamiaceae members having ethnomedicinal values.	UGC 34-161/2008 (SR)	2009-2012	11,03,800/-	Completed
4	Exploration of Ethnobotanical and ethnomedicinal plants from Akola District (MS) [as – co-investigator]	UGC 41-494/2012	2012-2015	9,99,800/-	Completed
5	Improvement of Chickpea (<i>Cicer arietinum</i> L) using induced mutation with special reference to grain yield and nutrition	35/14/45/2014- BRNS / 2175	2015-2018	20,46,275/-	Ongoing

14. Orientation/ Refresher/ Training Course/ Workshops:

Sr. No.	Programme	Duration	Organized by
1	Workshop on Molecular biology and Genetic Engineering	1-2 August 2004	Department of Zoology, SGB Amravati University, Amravati
2	Orientation Course	10 June to 7 July 2007	ASC, Goa University, Goa

3	Seminar on Integrating secular values in Education	19 th August 2007	Citizens Initiative for communal Harmony, Goa.
4	Short term training course on techniques in genetic engineering	15/02/2009 to 21/02/2009	Dept. Of Biotechnology, SGB Amravati University, Amravati (Sponsored by UGC)
5	A motivational soft skill development workshop	20 th Feb. 2011	Career Guidance and Placement cell, Shri Shivaji College, Akola
6	One day district level workshop on role of teachers for quality education with reference to 6 th pay commission	10 th April 2011	Shri Shivaji College, Akola
7	Refresher course in life science	09/03/2012 to 30/03/2012	ASC, SGB Amravati University, Amravati
8	One week Short term course in Nanobiotechnology	15- 20 Dec. 2014	ASC, SGB Amravati University, Amravati
9	Regional workshop on Research performance metrics and Intellectual Property rights	22 nd Dec. 2014	Shivaji Science College, Amravati

15. Teaching experience :

Course Taught	Name of Institution/ College/ University	Duration
UG	Shri Shivaji College of Arts, Commerce and Science, Akola	19 th June 2003 till date
PG	PGTD of Botany, Nagpur University, Nagpur	Sept. 2000 to 18 th June 2003
PG	Shri Shivaji College of Arts, Commerce and Science, Akola	19 th June 2003 till date

16. Role in college activities:

- Working as coordinator of Dept. of Biotechnology
- Member of College Admission Committee
- Member of College Time table Committee for Science faculty
- Member of Student guidance cell of the college
- Member of Research Assessment Committee of the college
- Member, NET/ SET Coaching Center, of the college.

17. Role in university activities:

- Paper Setter, valuer and Moderator for UG and PG in Botany
- Internal and External Examiner for UG and PG Practicals.
- External Examiner for the PG (Botany) in other Universities

16. Any other information:

- Recipient of Chandrabhagabai Chate Gold Medal (2001)
- Recipient of Dr. A. S. Khalatkar Memorial Gold Medal (2001)
- Recipient of Prof. L. B. Kajale Memorial Prize (2001)
- Worked as JRF & SRF under DAE funded research project (Sept. 2000 to May 2003)
- Score One patent- on 'sustainable release formulation for agriculture (IPR- 10th Dec. 2002).
- Awarded under Young Scientist Category for Best Paper Presentation (ICPSBC- 2005)
- Awarded for Best Poster Presentation (XXIII Annual Conference of IAAT- 2013)
- Best Teacher Award (2014-15) of Shri Shivaji College, Akola
- Worked as Rapourier for Oral Presentation session in XXIII Annual Conference of IAAT- 2013.
- Worked as Jury member for Intercollegiate Seminar competition organized by Late Pundlikrao Gawali College, Shirpur Jain (15.03.2015)
- Worked as Jury member for Intercollegiate Seminar/ paper presentation organized by Shri Shivaji College, Akola (20.02.2015)

Place: Akola

Date: 24/04/2015

D. K. Koche