BIODATA



Name	**:**	**Dr. Prashant A. Gawande**
Designation	**:**	**Professor**
Department	**:**	**Botany**
Institution	**:**	**Sant Gadge Baba Amravati University, Amravati-444602**
Telephone Number	**:**	**(O) 0721-2662207 Ext: 287**
Mobile Number	**:**	**+919403622568**
E-mail ID	**:**	**prashantgawande@sgbau.ac.in**
Educational Qualification	**:**	**M.Sc. (Botany), SET, Ph.D.**
Date of Birth	**:**	**15/07/1972**
Teaching Experience	**:**	**10 Years UG, 10 Years PG**
Areas of Professional Interest	**:**	**Molecular Biology, Biotechnology, Molecular Systematics, Taxonomy.**

Carrier Profile:

A. Current Job:

Employer	Designation	Job Responsibilities
Registrar **Sant Gadge Baba Amravati University, Amravati**	**i.** Associate Professor- GP 9000/- From 1st December, 2015 to 30th November, 2018, 1st December, 2018 to till date Professor **ii.** Coordinator Central Instrument Cell- From 2013 to till date. **iii.** Center Coordinator Institute of Distance Education- from 2009 to till date. **iv.** Training and placement officer. **v.** Coordinator Bamboo Project. **vi.** Administrative officer, COVID-19, Molecular Diagnosis Laboratory, CIC, SGBAU	**i.** Teaching to M.Sc. (Botany); Research and Ph. D. guidance **ii.** Instrumentation and administration **iii.** Conduct of MBA, BA and BCom courses and administrative work. **iv.** Consultancy, Campus Placement/ Career Guidance and Counseling **v.** Conduct of Bamboo courses **vi.** Testing of COVID-19 Samples.

B. Past Employment:

Employer	Designation	Job Responsibilities
Principal **Shri Shivaji Arts, Comm., and Science college, Akot**	Lecturer (Against Reservation) 2 From July, 1999 to 24 November,1999	Teaching to B.Sc. (Botany)
Principal	Lecturer (Against FIP) From	Teaching to B.Sc. and M.Sc.

Shri Shivaji Science College, Amravati.	November,1999 to 18 November, 2001	(Botany)
Principal Shri Shivaji Science College, Amravati.	Lecturer (Regular) GP 7000/- From 1 December, 2001 to 30 November, 2007; GP 7000/- From 1 December, 2007 to 1 December, 2008 and Join in PGTD Botany, Sant Gadge Baba Amravati University.	Teaching to B.Sc. and M.Sc. (Botany) and Research

C. Highlights of Research Carrier:

i) Research Degree:

Title of Ph.D. Problem	Name of Supervisor	Date of Award
Molecular analysis of divergent species of *Dioscorea* from Melghat Tiger Reserve Maharashtra.	Dr.U.S.Choudhary Professor and Head, Department of Botany, SGBAU- Supervisor Dr. P.V. Thakare Associate Professor Department of Biotechnology,SGBAU- Co-Supervisor	Notification No. 75/2009 Dated 24/09/2009

ii) Research Guidance: Ph.D. 09 Students

Name of Research Scholar	Topic
Ms.N.V. Nimbhorkar	DNA barcoding and phylogenetic analysis of selected species of *Dioscorea* from Satpura Hilly Ranges and Western Ghats of Maharashtra State.- **Awarded**
Ms. K.S. Lokhande	Phylogeny based on morphology and marker assisted analysis of some genera belonging to family Fabaceae Lindl.- **Thesis Submitted**
Ms. M.P. Tople	Crossability Relationship and genetic variance of the genus *Solanum* L. from Maharashtra state.- **Awarded**
Mr. A. N. Darshimbe	Establishment of morphological, phytochemical and genetic relationship in some genera belonging to the family Annonaceae from central India with special reference to Satpura Hilly Ranges of Maharashtra.
Mr. A.H. Khanday	Assessment of genetic divergence and phylogenetic relation among Pooideae-Bambusoideae complex through *in-silico* and *ex-silico* approaches. **Awarded**
Ms. K.S. Kale	Assessment of breeding potential of wild *Cajanus* species with special reference to *Helicoverpa armigera* resistance.
Ms. Minal Wath	Heavy metal accumulation in street greenery of Amravati City.
Mr. K.C. More	Assesment of Taxonomic Relationship Between Some Species of

	Bambuseae and Arundinarieae Based on Molecular Markers.
Dr. D. G. Bhadange	Floristic Diversity Studies on Flora of Western Vidharbha Region With Special Reference to Morphological and Molecular Marker System.

iii) Research Publications:

Papers Published in International and National Journals	
1	Deshmukh VP, Thakare PV, Choudhary US, **Gawande PA.** (2007). A simple method for isolation of genomic DNA from fresh and dry leaves of *Terminalia arjuna* (Roxb.) Wight and Argot. Electronic Journal of Biotechnology .10 (03): 468-472.
2	Deshmukh VP, Thakare PV, Choudhary US, **Gawande PA,** Undal VS. (2009). Assessment of Genetic Diversity among *Terminalia* Species using RAPD Markers. Global Journal of Biotechnology and Biochemistry. 4 (2):70-74.
3	Hedawoo GB, **Gawande PA.** (2010). Some Gastromycetes from Amravati Melghat Region (MS) India. Proceeding of National Seminar on "Recent Trends in Bio-Geo Sciences. Pp. 73-76.
4	Undal VS, Thakare PV, Chaudhari US, Deshmukh VP, **Gawande PA.** (2011). Estimation of Genetic Diversity among wild *Vigna* species revealed by RAPD Markers. *Annals of Biological Research.* 2 (4):348-354.
5	**Gawande PA**, Deshmukh VP, Choudhary US, Thakare PV. (2015). Establishment of Phylogenetic relationship on the basis of SDS-PAGE among the *Dioscorea* species under section Opsophyton, Enantiophyllum and Lasiophyton from Melghat Tiger Reserve Maharashtra, India. International Journal of Life Sciences. Special Issue A2.: 77-80.
6	**Gawande PA,** Nimbhorkar NV, Thakare PV. (2015). Distribution and Morphodiversity analysis of genus *Dioscorea* from India with special reference to Satpura Hilly Ranges and Western ghat of Maharashtra State". International Journal of Basic and Applied Sciences 4 (3): 140-150.
7	Khanday AH, Ahemad SS, **Gawande PA.** (2015). Assessment of Taxonomic Affinity through Character Based Cluster Analysis: A novel approach towards taxonomic Discrimination of Some Genera Under Bambusoideae complex. World Journal of Pharmaceutical and Life Sciences. .(2015) 1 (2): 170-183.
8	**Gawande PA,** Nimbhorkar NV, Deshmukh VP, Thakare PV. Assessment of genetic relationships among *Dioscorea* spp. of Melghat Tiger Reserve Maharashtra of Central India, by using RAPD and ITS sequences. (2015) 4 (3):
9	Lokhande K.S., **Gawande PA.** (2016) Macro and Micro-morphological Seed Characteristics of Some Selected Species of Family Papillionaceae. Botanique: 20 (I-II): 81-89.
10	Khanday AH, Ahemad SS, Darshimbe A.N., **Gawande PA.** (2018) Use of Morphological and Molecular Data Sets: To Assess Genetic Diversity and Phylogenetic Relationship Among Some Species of Bamboo". Ayushi International Interdisciplinary Research Journal : 25:342-345.
11	Khanday AH, Ahemad SS, **Gawande PA.** (2018). Genetic Diversity and Collection of Bamboo: an Approach for The *Ex-Situ* Conservation in A Narrow Geographical Range of Central Forest Nursery Wadali, Amravati" International Journal of Scientific Research in Science and Technology.: 4 (3): 115-119.
12	Khanday AH, **Gawande PA**, Darshimbe AN, Tople MP.(2018). Use of Morphological and Molecular Data Sets: To Assess Genetic Diversity and Phylogenetic Relationship Among Some Species of Bamboo". Ayushi International Interdisciplinary Research Journal 25:342-345.
13	John Mohammad War, Meharajud Din Talie, Zahoor Ahemad Bhat, Abdul Hamid Wani,

	Mohd Yaquib Bhat, **Gawande P. A**, G.M. Yatoo. (2018). *In-vitro* Callogenesis of Medicinal Important Plant Andrographis paniculata (Burm.f) Nees. International Journal of Advance Research in Science and Engineering 7(4): 1874-1880.
14	Tople Mayuri P., **Gawande Prashant A**., Khanday Ashiq H. (2018). Molecular Phylogentic Relationships in Genus *Solanum* (Solanaceae) Using Non-Coding DNA Sequences. (2018): 113-116.
15	Ashiq Hussain Khandday, **Prashant Ashokrao Gawande**. Utilization of Upper and lower Morphological taxonomic categories for identification of nursery Bamboo germplasm. **Communicated to Indian Forester**.
16	Minal Wath and **Prashant Gawande**. Comparative Survey of Heavy Metal Accumulation of Road Side Trees in Amravati City. International Journal; for Innovative Research In Multidisciplinary Field Volume - 6, Issue - 2, Feb – 2020.
17	Minal Wath and **Prashant Gawande**. Comparative Study of Road side Pollution of Heavy Metals on Plant Development in Amravati City. Universal Review
18	More KC, **Gawande PA**, Bawane CA. Effect of air pollutants on chlorophyll content of some crop plants near Rattan India Amravati thermal power project Amravati, Maharashtra, India. International Journal of Advanced Scientific Research; Received; 5 (1): 33-35. (2020).
19	Tayade S.N, More K.C, **Gawande P.A,** Manik S.R. Comparative assessment of antibacterial potential of *Mucuna nivea* (Roxb.) DC. and *Mucuna pruriens* (L.) DC. International Research Journal of Modernization In Engineering Technology And Science (IRJMETS):2 (5). (2020).
20	More K.C, Guglia A, **Gawande P.A.** Assessment of heavy metals contamination in vegetables grown under waste water irrigated area of Amravati (M.S.). India. Juni Khyat.10 (5):80-85. (2020).
21	Sunil Tayade, Kamlakar More, **Prashant Gawande**. Antioxidative properties of *Mucuna nivea* (Roxb.) DC by DPPH Assay. SSR Inst. Int. J. Life Sci. 6 (6): 2687-2693. (2020) Accepted : 23 Oct 2020.
22	Tayade S. N., More K. C. and **Gawande P**. A. Evaluation of antibacterial potential of *Canavalia gladiata* (Jacq.) DC. European Journal of Pharmaceutical and Medical Research. 7(8):535-538. (2020) Article Accepted on 14/07/2020.

iv) Genome Sequence Deposited and Published:

Sequence Deposited and published in genome databases:		
Publication Details	**Database with Accession**	**Total No.**
BOLD		
Gawande PA, Nimbhorkar NV, Thakare PV. (2015). DNA Barcoding of selected species of *Dioscorea* from Satpuda hilly ranges and Western Ghats of Maharashtra State matK, rbcL, trnL-F, trnH-psbA	51Barcodes on BOLD (Barcode of Life Database)	51
Gawande PA, Ashiq H. Khandey. (2018). POB Phylogenetic Assessment of subfamily Bambusoideae: Poaceae	18 Barcodes on BOLD (Barcode of Life Database)	18
NCBI		
Gawande PA, Nimbhorkar NV, Thakare PV. (2015). Internal Transcribed Spacer (ITS) of selected species of *Dioscorea* from Satpuda hilly ranges and Western	**NCBI** KR920021 to KR920023; KR920011 to KR920012	05

Ghats of Maharashtra State.		
Thakare PV, Kale KA, Gaikwad RV, **Gawande PA.** (2014). "Genetic analysis of *Chlorophytum* species from India based on accD sequence."	A0A0C5CI59	01
Thakare PV, Kale KA, **Gawande PA.** (2014). *Chlorophytum nepalense* voucher SUMONA 49 atpB-rbcL intergenic spacer, partial sequence; chloroplast	KP052756 to KP052772	17
Thakare PV, Kale KA, **Gawande PA.** (2014). *Chlorophytum tuberosum* trnT-trnL intergenic spacer, partial sequence; chloroplast	KM974934 to KM974950	17
Thakare PV, Kale KA, **Gawande PA.** (2014). *Chlorophytum tuberosum* voucher KUKCHTUB9 atpF-atpH intergenic spacer, complete sequence; chloroplast	KM657376 to KM657392	17
Thakare PV, Kale KA, **Gawande PA.** (2014). Chlorophytum nimmonii voucher KUKCHNIM8 AccD (accD) gene, partial cds; chloroplast	KM597491 to KM597506	15
Thakare PV, Kale KA, **Gawande PA.** (2014). *Chlorophytum tuberosum* voucher KUKCHTUB9 psbA-trnH intergenic spacer, complete sequence; chloroplast	KM496508 to KM496524	17
Thakare PV, Kale KA, **Gawande PA.** (2014). *Chlorophytum nimmonii* voucher KUKCHNIM8 rpoB (rpoB) gene, partial cds; chloroplast	KM516273 to KM516289	17
Thakare PV, Kale KA, **Gawande PA.** (2014). *Chlorophytum bharuchae* voucher KUKCHBH2 rpoC1 (rpoC1) gene, partial cds; chloroplast	KM506770 to KM506785	16
Thakare PV, Kale KA, **Gawande PA.** (2014). *Chlorophytum* sp. 2 PVT-2014 trnL-trnF intergenic spacer and tRNA-Phe (trnF) gene, partial sequence; chloroplast	KF742504, 507, 509, 510, 512, 518	06
Thakare PV, Kale KA, **Gawande PA.** (2014). *Chlorophytum glaucum* voucher KUKCHGLA6 trnL-trnF intergenic spacer, partial sequence; chloroplast	KF742506 to KF742511	06
Thakare PV, Kale KA, **Gawande PA.** (2014). *Chlorophytum tuberosum* trnL-trnF intergenic spacer, partial sequence; plastid	GU139548	01
Tople MP, **Gawande PA.** (2018). Internal Transcribed Spacer (ITS) of selected species of genus *Solanum* L. from Maharashtra state.	MH173326, MH553936 MH234384 to MH234387	06
Tople MP, **Gawande PA.** (2018). *trn*L-F sequences of selected species of genus *Solanum* L. from Maharashtra state.	DQ180403.1, DQ180482.1 DQ812108.1, DQ812107.1 DQ180406.1, KM489055.2 KT375308.1, GU323356.1 EU176160.1, GQ163548.1 GQ163545.1, MF818319.1 AY559243.1, AY559236.1 AY559240.1, AY266240.1	16
Tople MP, **Gawande PA.** (2018). *trn*H-*psb*A intergenic spacer of selected species of genus *Solanum*	KP872667.1, to KP872665.1 MF663710.1, JN047209.1	18

L. from Maharashtra state.	JN047211.1, KY123828.1 KY123827.1, KX346989.1 KM489055.1, KR735807.1 KR735777.1, JX511988.1 HM016412.1, MG947131.1 MF663709.1, MF818319.1 HF572794.1	
Khanday AH, **Gawande PA.** (2018). *rbc*L sequences of selected species of Bambusoideae from Maharashtra state.	MH522385,MH465520, MH522388, MH522387, MH522386, MH522389 MH522390, MH522391, MH522393, MH522395, MH522392, MH522394, MH522396, MH522400, MH522399 MH522397, MH522398	18
Khanday AH, **Gawande PA.** (2018). *trn*H-*bsb*A sequences of selected species of Bambusoideae from Maharashtra state.	MH41071, MH656988, MH465521, MH656987, MH656991, MH656989, MH656990, MH656992, MH656994, MH656996, MH656993, MH656995, MH656997, MH657001, MH657000, MH656998, MH656999	18
Khanday AH, **Gawande PA.** (2018). *trn*L-*trn*F sequences of selected species of Bambusoideae from Maharashtra state.	MH932655, MH932652 MH932657, MH932644, MH932659, MH932650, MH932660, MH932648, MH932653, MH932654, MH932649, MH932658, MH932645, MH932661, MH932647, MH932646, MH932651, MH932656	18
Khanday AH, **Gawande PA.** (2018). Internal Transcribed Spacer (ITS) of selected species of Bambusoideae from Maharashtra state.	MH921473, MH921470, MH921479, MH921475, MH921477, MH921468, MH921478, MH921471, MH921466, MH921467, MH921472, MH921476, MH916750, MH921480, MH921465, MH921464, MH921469, MH921474	18
Total Sequences Deposited and Published on global database		**316**

v) Research Projects:

Research Projects Completed	
1	Minor Research Project on "Cultivation of Sustainable Varieties of Potato to enhance agriculture production and provide nutritious food to the tribal peoples from Melghat tribal area of Amravati district". Department of Lifelong Learning, TRDEA, Sant Gadge Baba Amravati University. (2010-11) **Amount Mobilized Rs. 30,000/- (Principal Investigator)**
2	Major Research Project on Phylogenetic analysis of *Dioscorea* section Combilium, Lasiophyton, Opsophyton and Enantiophyllum based on chloroplast *mat*K sequences and AFLP from corridor of Satpura Hilly Ranges and Western Ghats of Maharashtra State". University Grants Commission, New Delhi (UGC). (2011-2014). **Amount Mobilized Rs. 11,00,000/- (Principal Investigator)**
3	Bamboo Project-2018: Bamboo handicraft and Art Unit, Awarded by Ministry of Forests, Government of Maharashtra- **Rs 37,00,000/- (Coordinator)**
4	Assessment of impact of fire on vegetation and massive plants and to propose criterion for fire line and their effective width by Department of Forest, Govt. of Maharashtra, (2019-20). **Amount mobilized Rs. 2,00,000/-(Principal Investigator)**
5	COVID 19 Molecular Diagnosis, Government Disaster Management COVID Pandemics.

D) Teaching and Related Academic and Administrative Activities:

i) Academic Publications:

Articles / Chapters published in Books	
Sr. No.	**Title with page nos.**
1	Shahare NH, **Gawande PA**, Satpute SV, Koche DK, Hutke SV, Dhande RS. (2015). Regulation of Gene Expression In: Text Book of Molecular Biology and Biotechnology, ISSN/ISBN 978-81-905776-102-1. Ist Edition. Nabh Prakashan.. Pp. 53-82.
2	Manik SR, Deshmukh VR, Deshmukh CM, Gharad M, **Gawande PA**, Hedawoo GB. (2015) Report on Sustainability Assessment of Tree Species against Environmental Vagaries. Registrar, Sant Gadge Baba Amravati University, Amravati. Pp. 1-52.

ii) Life Membership on Academic bodies:

Sr. No.	Name of the Academic Association	Current Position
1	Life Member IAAT	Life Member
2	Botany Teachers Association	Life Member
3	Botany Teachers Association	Joint Secretary
4	Bharat Krushak Samaj	Life Member
5	Society for Biotechnologists (India)	Life Member
6	International Commission for Plant Pollinator Relationship (ICPPR), Canada	Life Member

iii) Administrative Activities:

Administrative Activities:		
Sr.	**Job Assigned**	**Deliverables**

No.		
1	Governors observer subcommittee member “Indradhanushya-2014”	Observe the event and report to Honorable Governor of Maharashtra State.
2	Member Board of Studies in Bioinformatics	Preparation Syllabus for UG and PG and conduct of exam related activities.
3	Avishkar Seed Money Monitoring committee	Preparation Draft Rule for conduct of Avishkar event every year.
4	Team Manager Avishkar	Team presentations during Avishkar
5	Bachelor of Vocation ordinance and Syllabus sub committee	Preparation of Draft Ordinance and syllabus for BVoC.
6	NAAC SSR Preparation Committee member	Preparation of AQAR and SSR.
7	RUSA draft proposal preparation Sub Committee	Preparation of draft proposal for RUSA.
8	Member of Senate Sant Gadge Baba Amravati University, Amravati	In house items
9	Governors observer subcommittee member “Avishkar-2108”	Observe the event and report to Honorable Governor of Maharashtra State.
10	Member on Finance and Accounts committee Sant Gadge Baba Amravati University, Amravati, from 2011 to 2018	Annual Budget allocation and procurement of instruments, chemicals and furniture.
12	Member on Technical committee Sant Gadge Baba Amravati University, Amravati, from 2010 to 2018	Purchase of Equipments
13	Member on e-tender committee Sant Gadge Baba Amravati University, Amravati, from 2011 to 2018	e-tendering
14	Member Board of Studies in Biotechnology, Bioinformatics and Biodiversity	Academic related matters.
15	Governors Finance and Management subcommittee member “Avishkar-2018”	Observe the event, Financial Management and report to Honorable Governor of Maharashtra State.
16	Member on Chancellor Event Avishkar on “Observer and overseas committee-2019”	Observe the event, event Management and report to Honorable Governor of Maharashtra State.
17	Member on Research Advisory Committee	Research work analysis