

Permanent Address:

19/B, 'SmrutiKunj' Siddheshwar Nagar,
Opp. B. V. P. College,
Bijapur Road,
Solapur – 413 004
Maharashtra
INDIA

Contact Address:

Department of Botany,
Rayat Shikshan Sanstha's
Dada Patil Mahavidyalaya, Karjat
Dist. Ahmednagar - 414402
Maharashtra
INDIA

Mobile: +91-9036762911
Email: drpaisr.sppu@gmail.com

PERSONAL PROFILE:

Citizen : INDIAN
Date of Birth : June 13, 1979
Marital Status : Married
Languages : Can read, write and speak English, Hindi and Marathi
Can speak Konkani and manage with Kannada

**RESEARCH INTEREST:**

Translational and Integrative research in Medicinal plants, Medicinal plants in health, Plant metabolites, Secondary metabolites, Elicitation, Plant tissue culture and molecular biology

SUBJECTS TAUGHT:

Plant Biotechnology, Plant Sciences, Plant Physiology, Analytical instrumentation, Advanced Instrument, Basic Biochemistry, Plant Molecular Biology, Plant genetics, Cytogenetic and plant breeding, Computational Botany, Plant Physiology, Floriculture

EDUCATION:**Ph. D. in Botany.....July, 2010**

General topic of specialization: Life science, Biotechnology and phytochemistry

Duration: 01.07.2004 to 27.07.2010

Title: "Studies in Medicinal Plants *Ancistrocladus heyneanus* Wall. Ex Grah. And *Nothapodytes nimmoniana* (Grah.) Mabb."

Guide: Dr. G. B. Dixit, Professor, Laboratory of Cytogenetics and Plant Breeding

Organization: Department of Botany, Shivaji University, Kolhapur

M.Sc. in Botany.....May, 2001

Specialization: Cytogenetics and Plant breeding *Percentage:* 70.13%

PROJECTS SANCTIONED:

Sl No.	Project Scheme	Title	Agency	Amt (Rs.)	Position	Year
1	IRIS ID-2021-10581	Chlorophyllin Nanohybrid: New Horizons in Microbiological Safety of Fresh-Cut Produce Through Photodynamic Decontamination (Ongoing)	ICMR, New Delhi	18.00	Co-PI	2022
2	DST Fast Track SB/YS/LS-71/2013	Use of biotechnological approaches for enhanced production of triterpenoids from <i>Achyranthes aspera</i> Linn. (Completed)	SERB, DST, New Delhi	28.77	PI	2013
3	ICMR-PDF 3/1/3/PDF(2)/2012-HRD	Phytochemical and <i>in vitro</i> studies in <i>Ancistrocladus heyneanus</i> Wall ex Grah. and <i>Achyranthes aspera</i> Linn. (Completed)	ICMR, New Delhi	24.12	PI	2010

PATENT: One

Sl. No.	Applicants	Indian Patent Application No.	Title	Status	Date
1.	Nimbalkar MS, Chougale AS, Pawar NV, Kedage VV, Sandeep R. Pai	202021015343	A Composite comprising a receptor domain of angiotensin converting enzyme protein, and implementations thereof	Complete after provisional application	07/05/2021

CONSULTANCY AND INDUSTRY PROJECTS:

SI No.	Title	Agency	Role	Year
1.	Separation of Curcuminoids from <i>Curcuma Longa</i> (Rs. 0.25 Lakhs), 3 months (Consultancy)	Biomax, Mumbai	Co-PI	2018
2.	Production of gum for drilling fluids using biotechnological approach (Rs. 23.41 Lakhs), 3 months (Tech-Transfer)	Gumpro Drilling fluids, Mumbai	Co-PI	2018
3.	Separation of Phycocyanin from Spirulina powder (Rs. 0.10 Lakhs), 3 months (Consultancy)	Algene Biotech, Gujrat	Co-PI	2018
4.	Production of shikimic acid from <i>in vitro</i> cultures of selected medicinal plants from Western Ghats.	ICMR, New Delhi	Guided	2014
5.	Preparation of preliminary inventory and management plan for Medicinal Plant Conservation Areas (MPCAs) at Kanakumbi and Kakati in Belgaum	Karnataka Forest Department, Belagavi	Co-Investigator	2010
6.	Ecotourism Potential of selected Model - 01 sites in Eastern plains of Karnataka and Recommendations for their development	Karnataka Forest Department, Bangalore	Field Researcher	2003

SEED MONEY RESEARCH PROJECT:

SI No.	Project Scheme	Title	Agency	Amount (Rs.)	Year
1	College Seed Money Research Grant		Dada Patil Mahavidyalaya, Karjat	15,000/-	2020

EXPERIENCE DETAILS: (Starting With Recent)**Total Research and Teaching: 20.2 Years**

Sr. No.	Designation	Organization	Duration	
			From	To
Post-Doctoral: 12.7 years				
1.	Assistant Professor	Dada Patil Mahavidyalaya, Karjat	06.01.20	Till date
2.	Assistant Professor II	AIB, Amity University, Mumbai	03.08.16	05.01.20
3.	Scientist (DST-YS)	RMRC, ICMR, Belagavi	11.11.13	02.08.16
4.	ICMR- PDF	RMRC, ICMR, Belagavi	09.11.10	08.11.13
5.	Research Assistant	RMRC, ICMR, Belagavi	21.06.10	08.11.10
Doctoral: 6.1 years				
6.	Senior Research Fellow	Shivaji University, Kolhapur	10.12.06	31.03.08
7.	Junior Research Fellow	Shivaji University, Kolhapur	09.12.04	09.12.06
8.	Ph.D.	Shivaji University, Kolhapur	01.07.04	27.07.10
9.	Visiting Faculty Biotech	Shivaji University, Kolhapur	06.06.04	05.11.04
Pre Doctoral Research: 0.5 years				
10.	Laboratory Technician	Mahabeej Biotech, Nagpur	12.02.04	20.05.04
11.	Field Researcher	Envirosearch, Pashan, Pune	01.12.03	31.01.04
Pre Doctoral Teaching: 1.1 years				
12.	Lecturer Botany	C.B.K's B. College, Akkalkot	16.08.02	15.03.03
13.	Lecturer Botany	Sangmeshwar Coll., Solapur	10.08.01	28.02.02

OTHER EXPERTISE:**Computer Knowledge:**

- 1) Have completed Certificate Course in Computer Operation (C.C.C.O.) and comfortable with computer operations.
- 2) Window XP Operating System, MS Office (MS Word, Excel, Powerpoint), Adobe (Photoshop).
- 3) Bio-statistical analysis: Origin, Graph Pad, Biodiversity pro, SPSS,
- 4) Working on internet

Awards: # Eight

1. **'DHR Winter School Fellowship Award'** a training program in traditional medicine and Integrative Health from 15th November to 14th December 2018 at Interdisciplinary School of Health Sciences, Savitribai Phule Pune University, Pune in collaboration with Department of Health Research (DHR), Ministry of Health and Family Welfare, Government of India.
2. **Certificate of Participation** Awarded to the research paper "Pharmacognostic screening of *Piper trichostachyon* fruits and its comparative analysis with *Piper nigrum* using chromatographic techniques" Pharmacognosy Magazine, April-June 2016, Vol. 12, Issue 46, Suppl. 2. At Dr. P. D. Sethi memorial, National Awards-2016. By Anchrom, Pvt. Ltd. Mumbai.
3. **DST- Young Scientist Award**, Use of biotechnological approaches for enhanced production of triterpenoids from *Achyranthes aspera* Linn. SERB, DST, New Delhi. November, 2013.
4. **ICMR Post-Doctoral Award**, Phytochemical and in vitro studies in *Ancistrocladus heyneanus* Wall ex Grah. and *Achyranthes aspera* Linn. ICMR, New Delhi. 08, November, 2010
5. **BEST POSTER PRESENTATION AWARD** for the poster presented in National Seminar on Medicinal Plants "Scope and Future", held at Department of Botany, Shivaji University, Kolhapur, 6th and 7th November, 2012.
6. **EXCELLENCE IN PH. D. for poster and oral presentation** at Campaign On University Research and Training (COURT) held at Shivaji University, Kolhapur. October, 2007.
7. **SECOND PRIZE IN POSTER PRESENTATION** in National Seminar on Plant Resources of Western Ghats, held at IISC, Bangalore, 7th and 8th December 2006.
8. **BEST POSTER PRESENTATION AWARD** for the poster presented in National Symposium on Underutilized Horticultural Crops, held at IIHR, Bangalore, 8th and 9th June 2006.

TECHNICAL AND RESEARCH GUIDANCE:

B.E.	B. Tech.	M.Tech.	M.Sc.	M. Pharm.	MD Ayurveda	MD Dentistry	Ph.D.*
04	04	02	03	10	2	01	06

*Expertise provided

- Ongoing: #1 Ph.D. Student Miss. Kirti Tendulkar (Joined on: 03/08/2018)

SUMMARY OF PUBLICATIONS:

Total publication	:	77		
Cumulative IF	:	116.751	(Clarivate analytics)	
Researcher ID	:	F-3662-2016/	G-8009-2012	
Google Scholar:				
Total Publication	:	77	Total citation :	1019
i10 index	:	29	h index	19
SCOPUS Author ID	:	23005924000	ORCID:	http://orcid.org/0000-0002-1133-8061
Total Publication	:	64	Total citation :	558
h index	:	14		

RECENT PAPERS PUBLISHED:

Sr. No.	Paper Details	First /*Corr author	Cit.	IF#
2022				
1.	Jadhav U*, Pol R, Barvkar V, Dabade A, Babar G, Isha, Bhapkar B, Patil D, Satpute S, Pardesi K, Nimbalkar M, Sandeep R. Pai . Decontamination of Fresh Cut Produce Using <i>Lactobacillus rhamnosus</i> GG Spent Medium. Letters in Applied NanoBioScience .	No	New	--
2.	Singla RK*, De R, Efferth T, Mezzetti B, Md. Sahab Uddin, Sanusi, Ntie-Kang F, Wang D, Schultz F, Kharat KR, Devkota HP, Battino M, Surah D, Lordan R, Patnaik SS, Tsagkaris C, Sai CS, Tripathi SK, Găman MA, Ahmed MEO, Burgos EG, Babiak SB, Paswan SK, Odimegwu JI, Akram F, Gandara JS, Urquiza MS, Tikhonov A, Mondal H, Singla S, Di Lonardo S, Mulholland EJ, Cenanovic M, Maigoro AY, Giampieri F, Lee S, Tzvetkov NT, Louka MP, Verma P, Chopra H, Olea SP, Khan J, Suarez JMA, Zheng X, Tomczyk M, Sabnani MK, Medina CDV, Khalid GM, Boyin HK, Georgiev MI, Supuran CT, Sánchez ES, Fanei TP, Pittala V, Sureda A, Braidy N, Russo GL, Vacca RA, Banach M, Lizard G, Zarrouk A, Hammami S, Orhan IE, Aggarwal BB, Perry G, Miller MJS, Heinrich M, Bishayee A, Kijjoa A, Arkell N, David Bredtgg, Michael Winkgh, Bernd I. Fiebichgi, Gangarapu Kiranzh, Andy Wai Kan Yeunggha, Gupta GK, Santini A, Lucarini M, Durazzo A, El-Demerdashhe A, Dinkova-Kostova AT, Cifuentes A, Souto EB, Zubairi MAM, Badhe P, Echeverría J, Horbańczuk JO, Horbanczu k OK, Sheridan H, Sheshei SM, Witkowska AM, Abu-Reidah IM, Riaz M, Ullah H, Oladipupo AR, Lopez V, Sethiy NK, Shrestha BG, Ravanan P, Gupta SC, Alzahrana QE, Preethidan DS, Xiao J, Moosavi MA, Subramani PA, Singh AK, Chettupalli AK, Patra JK, Singh G, Karpiński TM, Al-Rimawi F, Abiri R, Ahmed AF, Barreca D, Vats S, Amrani S, Fimognari C, Mocan A, Hritcu L, Semwal P, Rahaman MS, Emerald M, Akinrinde AS, Singh A, Joshi A, Joshi T, Khan SY, Balla GOA, Lu A, Sandeep Ramchandra Pai , Ghzael I, Acar N, Es-Safi NE, Zengin G, Kureshi AA, Sharma AK, Baral B, Rani N, Philippe J, Gulati M, Kapoor B, Mohanta YK, Djomeh ZE, Onuku R, Depew JR, Atrooz OM, Goh BH, Andrade JC, Konwar B, Shine VJ, Ferreira JMLD, Ahmad J, Chaturvedi VK, Woźniak KS, Sharma R, Gautam RK, Granica S, Parisi S, Kumar R, Atanasov AG*, Shen B, The International Natural Product Sciences Taskforce (INPST) and the power of Twitter networking exemplified through #INPST hashtag analysis. Phytomedicine	No	New	6.656
3.	Sandeep R. Pai* , Kshirsagar PR, Pawar NV, Nimbalkar MS. Prospecting Indian Barleria Species for their Antioxidants, Anti-Bronchial, and Anti-Cancer Compounds. Pharmacognosy Magazine	Yes	New	0.948
4.	Al-Khayri JM, Upadhya V, Sandeep Ramachandra Pai* , Naik PM, Al-Mssallem MQ, Alessa FM. Comparative Quantification of the Phenolic Compounds, Piperine Content, and Total Polyphenols along with the Antioxidant Activities in the Piper trichostachyon and <i>P. nigrum</i> . Molecules , 27, 5965. https://doi.org/10.3390/molecules27185965 Q1	Yes	New	4.927
5.	Kshirsagar P*, Gaikwad S, Sandeep R. Pai , Desai N, Bapat V. Evaluation of antioxidant capacity and phytochemical investigation of eleven Clusiaceae members from Western Ghats, India. Biocatalysis and Agricultural Biotechnology , 44, 102476. https://doi.org/10.1016/j.bcab.2022.102476 Q1	No	New	--
6.	Joshi RK, Sandeep R. Pai , Nagarajan H, Vetrivel U. Identification of potentially bioactive compounds from <i>Blumea lacera</i> essential oil by gas chromatography-mass spectroscopy and molecular docking studies for targeting inflammatory bowel disease. Natural Product Research . https://doi.org/10.1080/14786419.2021.2025368 Q3	No	New	2.488
2021				
7.	Desai SD, Sandeep R. Pai* , Desai ND* Optimization of Methods for Quantification of Arjunic Acid from Bark of Terminalia arjuna from Konkan Region, India. Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. https://doi.org/10.1007/s40011-021-01264-9 Q3	Yes	--	0.396
8.	Kletecka-Pulker M, Mondal H, Wang D, Parra RG, Maigoro AY, Lee S; Garg T, Mulholland EJ; Devkota HP, Konwar B, Patnaik SS; Lordan R, Nawaz FA, Tsagkaris C, Rayan RA, Louka AM, De R, Badhe P, Schaden E, Willschke H, Maleczek M, Boyina HK, Khalid GM, Uddin MS, Sanusi, Khan J, Odimegwu JI, Yeung AWK, Akram F, Sai CS, Bucher S, Paswan SK, Singla RK, Shen B, Lonardo SD, Tosevska A, Simal-Gandara J,	No	01	--

Zec M, Burgos EG, Habijan M, Battino M, Giampieri F, Cianciosi D, Hernandez TYF, Quiles JL, Mezzetti B, BabiakaSB, Ahmed MEO, Piccard P, Urquiza MS, Depew JR, Schultz F, Sur D **Sandeep R. Pai**, Găman MA, Cenanovic M, Tzvetkov NT, Kharat KR, Sosa ATG, Sieber S, Tikhonov A, Tripathi SK, Atanasov AG*. Impacts of biomedical hashtag-based Twitter campaign: #DHPSP utilization for promotion of open innovation in digital health, patient safety, and personalized medicine **Current Research in Biotechnology**. 3, 146-153 **Q1**

9.	Gupta R, Sonawane T*, Sandeep R. Pai* , An overview on pharmaceutical properties and biotechnological advancement of <i>Withania coagulans</i> . Advances in Traditional Medicine https://doi.org/10.1007/s13596-021-00558-7 Q3	Yes	--	--
10.	Chavan JJ, Kshirsagar PR, Jadhav SG, Nalavade VM, Gurme ST, Sandeep R. Pai Elicitor-mediated enhancement of biomass, polyphenols, mangiferin production and antioxidant activities in callus cultures of <i>Salacia chinensis</i> L. 3 Biotech . 11, 285. https://doi.org/10.1007/s13205-021-02836-2 , Q2	No	--	2.893
2020				
11.	Bastikar VA, Bastikar A, Gupta PP, Sandeep R. Pai , Chhajed SS. Target related in silico analysis of Bergenin and tuberculosis management. Biomedicine 40(4) 474- 481 DOI: https://doi.org/10.51248/v40i4.322 Q4	No	--	--
12.	Ankad GM, Sandeep R. Pai , Hiremath J, Hegde HV, Traditional Horticulture Practices Increase the Production of Selected Withanolides in <i>Withania somnifera</i> (L.) Dunal—A RP-UFLC Analysis. Journal of Chromatographic Science 58(10):899-906, doi: 10.1093/chromsci/bmaa057 Q3	No	--	1.555
13.	Nimbalkar MS, Pawar NV, Sandeep R. Pai* , Dixit GB Synchronized variations in levels of essential amino acids during germination in grain Amaranth. Brazilian Journal of Botany 3: 481-491. Q2	Yes	03	1.368
14.	Kshirsagar PR, Sandeep R. Pai* , Vyavahare GD, Bapat VA, Desai NS. Prospecting alternative source of shikimic acid from clusiaceae of Western Ghats, India and evaluating discrepancies with reference to seasonal variation, developmental stage and sex of <i>Mammea suriga</i> . Industrial Crops and Products . 149, 112354 DOI: https://doi.org/10.1016/j.indcrop.2020.112354 Q1	Yes	--	6.449

* Corresponding Author; *Clarivate analytics Impact Factor, 2022

TECHNICAL REPORTS PUBLISHED: # Five

BOOK CHAPTERS CONTRIBUTED: # Nine

GERMPLASM REGISTRATIONS: # One

GENE SEQUENCES SUBMITTED: # One

PAPERS / POSTERS PRESENTED IN CONFERENCES/SEMINARS: Total #: Thirty-Three

WORKSHOPS: #Twenty

REFRESHER / ORIENTATION COURSES: #03

MEMBERSHIP: #Six

BOOKS CONTRIBUTED: # One

ARTICLES IN NEWS PAPERS: # Four

GERMPLASM DEPOSITION: # One

DELIVERED TALKS: # Fourteen

1. **Editorial board member of Pharmacognosy Magazine 2021**
2. **Member (Ordinary Full Member) of Good Practice in Traditional Chinese Medicine Research Association, China, 2021**
3. **Life Member of the Indian Science Congress Association, 2018.**
4. **Member of International Natural Product Sciences Taskforce (INPST), Poland. 2018**
5. **Founder member and secretary of a NGO, Sahyadri Group Enriching Nature Environment and Science (Sahyadri-GENES) 2007**
6. **Editorial board member of Pharmacognosy Research Journal 2018.**

I hereby declare that the information provided in the CV is true.

Place: Karjat, Ahmednagar

Date: 27.01.2023


Dr. Sandeep R. Pai