

Faculty Profile

Name: Dr Puspasree Puhan



Qualification: Ph.D. in Botany,
PDF- in Biotechnology

Designation: Assistant Professor

Area of interest: Transgenics development in Cereals

Area of research: Tissue culture and Transgenic Development

Teaching Area:

- UG- Botany
- PG- Botany

Total No. of Teaching Experience (Yrs):23 years

- UG:12 years
- PG: 04 years

Research Supervision:

- Completed (M.Phil/Ph.D):

Name of the Student	Degree	University	Title of the Thesis	Date of Registration	Date of Submission	Date of Award of Degree

• **Ongoing (M.Phil/Ph.D):**

Name of the Student	Degree	University	Title of the Thesis	Date of Registration

Publication Profile

Research Articles Published:

Sl. No.	Authors, Title, Vol., Page No., Year,	Journal Name	ISBN/ISSN, Refereed / Non refereed, Indexed/Non-indexed	Impact Factor (API score)
1	Puhan P, Vipparla A, Vemireddy LN, Anuradha G and Siddiq, EA :An efficient and universal Agrobacterium-mediated transformation protocol in rice. 21(2)252-260.2012	Journal of Plant Biochemistry and Biotechnology	ISSN0971-7811, REFERRED, INDEXED	1.352
2	Puhan P & Rath SP. In vitro micropropagation of Desmodium gangeticum-a medicinal plant through axillary bud multiplication10. 3923, 2012	Pakistan Journal of Biological science	ISSN1028-8880, REFERRED, INDEXED	1.19

3	Puhan P & Siddiq EA. Evaluation of rice varieties in vitro response to regeneration(4)6 47-653,2013	Advances in Bioscience and Biotechnology	ISSN2156-8450, REFERRED, INDEXED	1.08
4	Puhan P & Rath SP.In Vitro Propagation of Aegle marmelos (L.) corr., A Medicinal Plant through Axillary Bud Multiplication.3, 121-125, 2012	Advances in Bioscience and Biotechnology	ISSN2156-8450, REFERRED, INDEXED	1.08
5	Puhan P & Rath S.P.Induction, development and germination of somatic embryos from in vitro grown seedling explants in Desmodium gangeticum(L.)– A medicinal plant. 6(5)346-349.2012	Research Journal of Medicinal Plant	ISSN18193455, REFERRED, INDEXED	0.18
6	Puhan P. & Arasu M.T.Direct organogenesis of Aegle marmelos (L.) CORR from cotyledon explants. 10(82) 18986-18990.2011	African Journal of Biotechnology	ISSN 1684-5315, REFERRED, INDEXED	0.44
7	Puhan P & Das SR. A study on indigenous aromatic rice of Odisha for economic development of rural	World journal of Science and pharmaceutical science	ISSN2278-4357, REFERRED, INDEXED	6.647

	poor7(1)992-1014,2017			
8	Puhan P.GM Organisms, Advantages and disadvantages of popular genetically modified plants and animals- A review 5(2)2018	European journal of pharmaceutical and medical research	ISSN2394-3211, REFERRED, INDEXED	4.161
9	Puhan P. Aflatoxins, Their Metabolites, Chemical Reactions Of Aflatoxins And Their Prevention And Control 5(3) 211-219,2017	Advances in Bioscience and Biotechnology	ISSN2156-8450, REFERRED, INDEXED	1.08
10	Puhan P. & Rath S. P.In vitro propagation of Desmodium gangeticum:A medicinal plant. 28(1&2):18- 22.2006	Plant Science Research	ISSN0972-8546, REFERRED, INDEXED	3.63
11	PuspasreePuhan *, RanjithVemiredd y and EA Siddiq. Evaluation of rice varieties for response to in vitro regeneration with reference to NiR gene.55(4) 500-510.2017	Oryzae	ISSN0474-7616, REFERRED, INDEXED	4.12
12	Puhan P. Some important plants of Odisha-A	Asean Journal of Pharmaceutical	ISSN2231-2331	2.11

	study8(2) 314-324,2017	and health Sciences		
13	Puhan P. In Vitro micropropagation in Seshamum5(6) 324-328,2017	Academic Journal of medicinal plants	ISSN 2315-7720	1.72
14	Puhan P. Agrobacterium mediated transformation in sorghum2017(Accepted)	Asian Journal of microbiology, Biotechnology and environmental Sciences	ISSN0972-3005	4.93
15	Puhan P. A study on Submergence rice varieties of Odisha – A review 9(1)778-789,2017	American Journal pharmatech research	ISSN229-3387, REFERRED, INDEXED	1.123
16	Ravikiran Regeti, Raghu Gogada, Puspashree Puhan and Praveen Boddana:Marine Bio Active Compounds: Bioprospecting and Its Strategies10(60), 23891-23907,2020	Indian Journal of Natural Sciences	ISSN: 0976 – 0997	0.04
17	Exploring the potentials of Staphylococcus aureus cell wall adherence proteins, SdrD and SdrE for multi-epitope subunit vaccine: In silico design and validation through molecular	Journal of Biomolecular Structure & Dynamics.	Peer reviewed online and ISSN 1538-0254	

	dynamics (TBSD-2021-0587) as co author(Accepted)			
18	Immunoinformatic Approach to Design a Novel Multi Epitope Based Vaccine Targeting Multi Drug Resistant Efflux Pumps to Confer Dual Protection Against Two Typhoidal Salmonella Serovars , As Co Author	International Journal of Biological Macromolecules	Peer reviewed online	3.34
19	Exploring Klebsiella pneumoniae capsule polysaccharide proteins to design multiepitope subunit vaccine to fight against pneumonia As Co Author, (Accepted)	Infection, Genetics and Evolution	Peer reviewed online	
20	Bioleaching of Indian Bauxite – Process and Performance Profiling by Indigenous Bacteria Bahira S, Puhan P	Asian Resonance	ISSN 0976- 8602	7.07
21	Phytoremediation of Chromium by Chickpea (Cicer arietinum L.) and Mung bean (Vigna radiata L.)	International Journal of Current Science Research	ISSN: 2454- 5422	7.08

	As principal author			
22	Phytoremediation of Chromium by Chickpea (Cicer arietinum L.) and It's Toxic Effect. As principal author	Remarking An Analysisation	ISSN NO.: 2455- 0817	6.50

Books Chapters Published:

Sl. No.	Authors, Chapter Title, Vol., Page No., Year	Book title, Editor & Publisher	ISBN/ISSN No.
1	Puhan P 2010	In vitro micropropagation of Medicinal Plants ERF Publisher, Panchkula, Chandigarh	ISBN 978-81-8465-732-6
2	Puhan P, 2016	Techniques of Tissue Culture, ERF Publisher, Panchkula, Chandigarh	ISBN 978-93-5258-324-9
3	Puhan P, 2016	Some important medicinal plants, ERF Publisher, Panchkula, Chandigarh	ISBN 978-93-5258-324-6
4	Puhan P, 2016	Techniques of Transgenic Plants ERF Publisher, Panchkula, Chandigarh	ISBN 978-93-5258-324-3
5	Swati Sucharita, SK Rout, S. Tripathy, T Sarangi, Puspasree Puhan	Environment and its Management Edited Book of UGC sponsored seminar articles of B.J.B. Autonomous College.2013	B.J.B. Autonomous College.2013
6	Puhan P	Paradigm shift in Agriculture, Agricultural Marketing and Rural Development, NIRD, Hyderabad(Edited Book)	In press
7	Puhan P.& Rath S .P In vitro micropropagation of medicinal plants – A retrospect P139-147 2010	Role of Biotechnology in Medicinal Plants by P.Trivedi, Aviskar Publishers, Jaipur, India (Chapter in Edited Book)	ISBN97881-7910-310-4
8	Puhan P.& Rath S.P In vitro micropropagation of medicinal plants – A retrospect 2009	Biotechnology : Tissue Culture to Proteomics P C Trivedi Published by Pointer, Jaipur, 2009(Chapter in Edited Book)	Vedams e – books

9	Puhan P & Rath S P. In vitro regeneration of plantlets from cultured hypocotyls and epicotyls explants of Aegle marmelos (L.) CORR.2008	Conservation, cultivation and utilization of medicinal plants. By RK Sahoo, Biocare India Group (Chapter in Edited Book)	UGC Sponsored Book.
10	Genetic Engineering, Altering the threads of Life,49-61(2).2020	Recent Trends in molecular Biology and Biotechnology by Dr Yogendra Singh, Integrated Publications, New Delhi(Chapter in Edited Book),	ISBN9789390471034

Books Published:

Articles Published in Newspapers/Magazines:

Research Projects:

NAME	DEPARTMENT	TYPE (MAJOR/MINOR)	NAME OF THE FUNDING AGENCY	FUNDS PROVIDED (INR IN LAKHS)	TITLE OF THE PROJECT	MONTH AND YEAR OF RECEIVING GRANT	DURATION OF THE PROJECT
Dr Puspasree Puhan	DST,INDIA	Major	DST, India	54 Lakhs	Identification of QTLs for regeneration ability and their application for improvement of Rice transformation Systems	2017	3 years

Dr Puspasree Puhon	DBT, India	Major	DBT, India	273 lakhs	Skill vigyan project	2019	3 years
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Papers presented in Conferences/Seminars:

Sl. No.	Title of the invited lecture/ Papers presented	Title of conference/seminar/ refresher course etc.	International/National/State/University level
1	Agrobacterium mediated protocol for development of transgenic rice 10th-11th July 2012	International Dialogue on Designer rice, ICRISAT, Hyderabad	international
2	Desmodium gangeticum – A medicinal Legume	Vth International Conference on Legume Genomics, 2nd-7th October 2012 Hyderabad	International
3	Scope of Nanobiotechnology	Recent trends in Nanotechnology, State level seminar, BJB Autonomous College 27th-28th October 2016	State
4	Plants used in the Rituals of DANDANATA	Odishara Lokanrytya, National seminar by UGC, BJB Autonomous College 03/05/2015-04/05/2015	national
5	A large scale plantation through in vitro micropropagation of <i>Desmodium gangeticum</i> from cotyledon explants	Role of Biotechnology in Medicinal Plants, National Seminar, BJB Autonomous College, 28th-29th July 2007	national
6	In vitro regeneration of plantlets from cultured Hypocotyl and Epicotyl explants of <i>Aegle marmelos</i> (L) Corr.	Conservation cultivation and utilization of Medicinal Plants, Seminar, BJB Autonomous College, 26th-27th Feb 2005	national
7	Promotion of Biotechnology in the eastern regions of India	Role of Biotechnology for the development of Rural Poor 23-24th November 2013 Utkal University	National workshops
8	A Study on Indigenous Aromatic Rice of Odisha for Germplasm Conservation and	Reaching the unreached through Science and Technology, national seminar by ISCA & KIIT University 17th-18th Dec, 2017	national

	Economic Development of Rural Poor		
9	Plant Breeding In harmony between Production and Environmental Stress in rice	National seminar on Science and Technology for Environmental Soceity by OES and KIIT University, 5 th -26 th Nov 2017	national
10	Plant Breeding In harmony between Agricultural Production and Abiotic Stress in rice	National Conference on Biotechnological Interventions for Environmental Stress Management in Plants and Microbes By Utkal University, 20/01/2018-21/01/2018	National
11	Prospects and opportunities in biotechnology Sector	Orientation /Induction program of P.G. in Biotechnology Biotechnology Department of Utkal University on 20/03/2021	University level
12	Development of Drought Tolerant high yielding Aromatic Rice Cultivars for India by highly efficient pyramiding of QTLs from diverse origins	Molecular Breeding course in IRRI, Philippines	International
13	Contributions of human activities in disaster management	MAANU, Hyderabad, Refresher course	National
14	Reason Behind the flying attitude of birds in a V shape.	Refresher course Environmental Science, Utkal University	National
15	Tissue culture of Banana plants	Training course Micropropagation of Horticulture and Forestry species by RPRC, BBSR	National
16	DMRT in SPSS Software	Research Methodology, Refresher course by Utkal University	National

Invited/Special Lectures/Resource Persons or Presentations at Conferences/ Workshops:

17	Transgenic Plants, Techniques behind it.	Dept. of Bioinformatics, BJB Autonomous College	University level
18	Golden Rice	ITTER, SOA University	University level

19	Restriction Endonuclease	Dept. of Bioinformatics, BJB Autonomous College	University level
20	Recombinant DNA technology	Dept. of Bioinformatics, BJB Autonomous College	University level
20	DNA finger Printing and Its Technology	Dept. of Bioinformatics , BJB Autonomous College	Universty level
21	GM foods and it's effects	Dept. of Bioinformatics , BJB Autonomous College	Universty level
22	Application of Tissue Culture	Dept. of Bioinformatics , BJB Autonomous College	Universty level

Awards and Distinctions:

Second Position in Botany Hons in Utkal University

Association with Professional Bodies:

- As a life member of Odisha Environmental Society
- As a member of Odisha Science Congress
- As a life member of Odisha Bigyan Academy

Training Programs

- One orientation course on Orientation of KRPs on grading system at Higher education level from Regional Institute of Education, Bhubaneswar from 25/02/08 to 29/02/08
- **Short term training Program Molecular Breeding on rice at International Rice Research Institute (IRRI) , Philippines, 19th Sept to 30th Sept 2011**
- UGC Refresher Course on Environmental Science, Utkal University, Bhubaneswar from 5th-25th Dec.2008
- One orientation course on Science and Society from Utkal University, Bhubaneswar from 07/02/09 to 06/03/09
- Training program on “Micro-Propagation of Horticultural and Forestry Species “at Regional Plant Resource Center, Bhubaneswar from 9th-29th Sept 2002 under NATP PROJECT
- Refresher course on Research Methodology at Utkal University, Vanivihar on 5th to 25th January 2016

- Refresher course on Disaster Management at MAANU, Hyderabad on 6th to 26th August 2014.
- Research Fellow (Training for Transgenic development in Sorghum) at ICRISAT, Hyderabad 1st July 2012 to 31st December 2012
- Training program on “Argo climatic Based Innovations for sustainable Rural Development at National Institute of Rural Development” Hyderabad from 26th June to 1st July 2018.