



RANCHI UNIVERSITY, RANCHI

Faculty Profile

- Name of the Faculty Member: Lady Rani
- Department: Botany
- Designation : Assistant Professor
- Level of Guidance & Teaching: Post Graduation And PhD
- Highest Qualification: MSc (spl Cytogenetics Plant Breeding and Molecular Biology) PhD B.Ed.

Academic Qualifications:

Career Profile

Teaching experience in years	Area of Specialization Cytogenetics ,plant breeding and molecular biology	
	Teaching	Research
2008-2022 (14 Years)	Cytogenetics Physiology Biotechnology Molecular Biology Microbial biotechnology Nano Biotechnology Pteridophytes Cell biology and biomolecules	Microbial Biotechnology Molecular Biology NanoBiotechnology Abiotic Stress Physiology Enzymology Proteomics Metagenomics Bioinformatics

Research Guidance : M.Phil/Ph.D. /D.Sc. /D. Litt (May 2017 to till date):

Name of Research Scholar	Registration No. & Date	Topic of research work	Present Status (No. of Ph.D. awarded)
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			/ongoing)
1. Shweta Kashyap	ED306/11 Date: 31-08-2019	Studies On Biogenic Synthesis Of Silver Nanoparticles From Some Underutilized Ethnomedicinal Weeds Of Jharkhand And Their Efficacy Against Urinary Tract Infections caused by <u>E.coli</u>	Ongoing
2. Sapna Suman	Applied For Date : 26-11-2019	Screening And Characterization Of Soil Bacteria For Alpha Amylase Production And Its Immobilization.	Ongoing
3. Zakir Hussain	Applied For Date: 20-12-2019	Molecular Characterization Of Abiotic Stress Tolerant Plant Growth Promoting Endophytic Bacteria From Landrace Rice Variety Of Jharkhand	Ongoing
4. Shashi Kiran	Applied For Date: 5-11-2020	To Study The Proteomics Of Seed Storage Proteins Present In Some Landrace Rice Variety Of Jharkhand	Ongoing

Books authored/Edited/Co-Author Chapter in Book (May 2017 to till date)

SNO	NAME	ISBN	STATUS	PUBLISHER	PUBLISHED
1	SOCIO - POLITICAL MODERNIZATION OF TRIBAL WOMEN IN JHARKHAND AND ENVIRONMENTAL CONSERVATION	Applied for	MANUSCRIPT SUBMITTED	ISRDR, RANCHI	IN JUNE 2022
2.	BOUGAINVILLEA: BEAUTY IN ABANDON	978-93-89043-58-7	PUBLISHED	Satyam Publication House New Delhi	2020
<u>Chapter in Book 2018-2019</u>					
1	Title of the chapter	Title of the book		ISBN NO	YEAR
	Role Of Tribal Women In Conservation Of Traditional Scientific Knowledge	Women Empowerment – Various Dimensions		978-81-87364-80-1	2019

Number of Research papers published in Journals/Periodical (May 2017 to till date)

S N		Journal name AND DETAILS	ISSN NO	PAPER TITLE	PUBLICATION YEAR
1	DOI:http://dx.doi.org/10.22192/ijarbs.2022.09.03.016	Int. J. Adv. Res. Biol. Sci. (2022). 9(3): 138-146Sciences	ISSN: 2348-8069	Application of Recombinant DNA technology in Agriculture: A Review	March 2022
2.		Journal Of Scientific Research of BHU	ISSN:0447-9483	Isolation, Screening and Extraction of Biosurfactant from Oil and Pesticide Contaminated Soil of Ranchi District	Accepted April 22
3.	(Regd.No.20560/IV – 1815/2005)	BIOSPECTRA **	(ISSN: 0973 – 7057)	“Phytochemical screening of primary and secondary metabolites in four species of Ipomoea (I.aquatica, I.batata, I.carnea, I.palmata)- an underutilized ethnomedicinal weeds of Jharkhand”	September, 2021, Vol.- 16, Issue- 2
4.	JETIR2107789 EDITOR Research Paper Weblink http://www.jetir.org/view?paper=JETIR2107789	Journal of Emerging Technologies and Innovative Research UGC Approved (Journal No: 63975) & 7.95 Impact Factor	(ISSN : 2349-5162)	Physiological and biochemical characterization of phosphate utilizing and zinc tolerant endophytic bacteria for indigenous rice variety of Jharkhand	Published in Volume 8 Issue 7 , July-2021 Date of Publication: 2021-07-31
5.		Ranchi University Journal of Science and Technology (RUJOST)	ISSN : 2319-4227	Isolation and Characterization of abiotic stress tolerant endophytic diazotrophic bacteria from landrace rice karhani of Jharkhand	Vol. 5 & 6 No. 1 75-80 & 2 2020-2021
6.		Ranchi University Journal of Science and Technology (RUJOST)	ISSN : 2319-4227	Present status of underutilized ethnomedicinal weed of Ipomoea sp. found in Jharkhand	35-42 Vol. 5 & 6 No. 1 2020-2021
2020-2021					
1	JBINO2101021	e-Journal of Life Sciences JOURNAL OF BIO INNOVATION	ISSN 2277-8330 (Electronic)	PIGMENT ESTIMATION AND ANTI-MICROBIAL PROPERTY OF LEAF EXTRACTS OF DATURA STRAMONIUM L	9(6) Pp 1570-1584
2	DOI: 10.37398/JSR.2020.640228	Journal of Scientific Research Institute of Science, Banaras Hindu	ISSN:0447-9483	Comparative Study on Antibioqram and Phytochemical Analysis in Extraction of Ocimum sanctum, Murraya koenigii, Mentha piperita and	Volume 64, Issue 2, 2020 PAGE 201-207

		University, Varanasi, India		Coriandrum sativum, against various Pathogens	
		J. INDIAN BOT. SOCIETY OF INDIA	e-ISSN:2455-7218, ISSN:0019 - 4468	Isolation And Characterization Of Siderophore Producing Endophytic Bacteria From Landrace Rice Variety Of Jharkhand	2020 Vol. 100 (1&2) 2020:42-52
2019-2020					
1.		ModernJournal Of Life Sciences	ISSN 0973-0117	Study Of Phytochemical Constituents Of Some Indigenous Leafy Plants Commonly Found In State Of Jharkhand	AUGUST 2019
2.		Int. J. Appl. Sci. Biotechnology	ISSN Online 2091- 2609	Ethno-medicinal Species of Cassia (C. fistula, C. siamea, C. tora): Documentation and Metabolites Estimation	2019. Vol 7(3): 387-394
2018-2019					
1		J. Indian bot. Society of India	e-ISSN:2455-7218, ISSN:0019 – 4468	Screening Of Efficient IAA Producing Endophytic Diazotrophic Bacteria from Ethnomedicinal Rice Of Jharkhand india	Vol. 97 (3) 2018 September 2018
2		International Journal of Biotechnology Research	eISSN 2328-3505	Isolation and Screening of P - Solubilising Endophytic Diazotropic Bacteria from Ethno-Medicinal Indigenous Rice of Jharkhand	Vol. 5(1), pp. 001- 010 August 2018
3		Modern Journal Of Life Sciences	ISSN 0973-3914	Phosphate-Solubilizing Microorganisms in Sustainable Production of Rice: Jharkhand Perspective	Volume- XXVII-I PP 123-141 March 2019

No. of seminars/conferences/workshop attended/organised (May 2017 to till date):

I . International Seminars/ Webinars/ Conferences

S No	Details	Year
1.	International Virtual Conference On Biological Innovations And Computational Explorations For Pandemic 2021 (BIPAC`21)	Feb 2022
2.	International Conference On Environment And Ecology 2021	Nov 2021

2 National Seminars /Webinars/Conferences (2021-22):((04)

S No	Details	Date
1.	National Seminar on “ Flood And Water Resource Management in North India” , LN Mithila University Darbhanga	2022
2.	National Webinar On Traditional Knowledge And Ethnobotany , Botanical Survey Of India	2022
3.	Webinar On Biosafety Guidelines And Regulations , Maharishi Dayanand University , Rohtak	2021
4.	A virtual symposium on the Endangered Species Act (ESA) held	January 13, 2022 1 to 4 pm EST

2020-2021

1.	ONLINE TRAINING PROGRAMME	CHILD CENTRIC DISASTER RISK REDUCTION	CENTRAL UNIVERSITY OF JHARKHAND JOINTLY ORGANIZED BY CHILD CENTRIC DISASTER RISK REDUCTION CENTRE, NATIONAL INSTITUTE OF DISASTER MANAGEMENT, MINISTRY OF HOME AFFAIRS, GOVT. OF INDIA IN	FROM 10-12 NOVEMBER 2020(3 DAYS)
2.	INTERNATIONAL WEBINAR	NOVEL CORONA VIRUS FROM DISCOVERY TO CLINICAL DIAGNOSIS	DEPT OF CHEMISTRY CHAIBASA COLLEGE ,TATA	28 JUNE 2020
3.	NATIONAL WEBINAR	“ENVIRONMENTAL ISSUES AT THE TIME OF PANDEMIC”	J. D. WOMEN’S COLLEGE DEPARTMENT OF BOTANY & DEPARTMENT OF CHEMISTRY	05TH JUNE, 2020.

2019-2020

1.				
Webinar	“Spine Health”	organized by IQAC,	J. D. Women’s College Department of Botany & Department of Chemistry	30th May, 2020
National Webinar	“Biodiversity Conservation: Prospects and Challenges”	by Life Sciences Department	J. D. Women’s College, Patna	31st May, 2020.
International Webinar	on "ROLE OF MICROBIOLOGY AND BIOTECHNOLOGY IN THE TIMES OF COVID-19 PANDEMIC"	IET AGARA	IET AGARA	
Webinar series on Applications of Gene Editing in Sustainable Agriculture and Food Security in Asia-Pacific Region	Genome editing tools and its applications for targeted plant breeding	FEMS Microbiology Ecology Webinar	Federation of European Microbiological Societies	Jan 4-5 2021
	Aquatic Microbial Ecology	FEMS Microbiology Ecology Webinar	Federation of European Microbiological Societies	
" Webinar on ". Federation of	Microbial Ecotoxicology	FEMS Microbiology Ecology	Mar 4,-5 2021 8:30 PM -	2 days

European Microbiological Societies			10:00 PM IST	
National seminar	CHALLENGES AND OPPORTUNITIES' OF LIFE SCIENCES	CENTRE OF LIFE SCIENCES CUJ, JHARKHAND		APRIL 20, 2018
NATIONAL CONFERENCE	HARMONY WITH NATURE IN CONTEXT OF BIODIVERSITY CONSERVATION AND ECOSYSTEM MANAGEMENT	Organized by Dept. of Zoology, St. Xavier's college, Ranchi & National Environmentalists Association, India.		OCTOBER 28-30, 2018

No. of FIP/refresher courses/summer trainings attended/organised

1. No. of FIP/refresher courses/summer trainings attended

sno	Year	Name	Period	Venue	Grade
1.	2022	Refresher Course In Botany	2022-01-11 to 2022-01-24	Babasaheb Bhimrao Ambedkar Bihar University, Muzaffarpur, Bihar	A
2.	2021	Refresher Course In "21ST CENTURY ENVIRONMENTAL ISSUES, CHALLENGES & SOLUTIONS" ENVIRONMENTAL SCIENCE	15 - 29 July, 2021	Teaching Learning Centre, Ramanujan College University of Delhi	A+
3.	2018	UGC SPONSORED REFRESHER COURSES IN LIFE SCIENCES	8 AUG-28 AUG 2018	UGC HRDC Ranchi University Ranchi	A
4.	2017	UGC SPONSORED SPECIAL WINTER SCHOOL	DEC 2-DEC 22 2017	UGC HRDC Ranchi University Ranchi	A

No. of FIP/refresher courses/summer trainings organised (02)

Name	Period	Venue	Role
1. Refresher Course in Research Methodology and Statistical Analysis	05-08-2021 to 18-08-2021	UGC HRDC Ranchi University Ranchi	Course co-ordinator
2. Refresher courses in environmental sciences and disaster management	12/09/2019 to 25/09/2019	UGC HRDC Ranchi University Ranchi	Course co-ordinator

Any other academic, administrative and socially relevant contributions/consultancy

1. Report Preparation of research project proposal of Tribal Research Institute Ranchi.
2. Reportier of Technical Session 2 in “*National Seminar On Flood And Water Resource Management in N. Bihar* “, SMJ College Madhubani,
LN Mithila University , Darbhanga
3. Resource Person in in “*National Seminar On Flood And Water Resource Management in N. Bihar* “**Topic : *Flood Management And Plantation Natural Solution For Nature`s Problem*”.**
4. As academic advisor to Manjula Sharma Academy ,CBSE AFFILIATED 10+2 SCHOOL
5. AS RESOURCE National Webinar on “Biodiversity Conservation: Prospects and Challenges” organized by Life Sciences Department, J. D. Women’s College, Patna on 31st May2020
Role of metabolomics in biodiversity conservation .
6. AS KEY NOTE SPEAKER AT INTERNATIONAL SEMINAR keynote talk on “Role of Complementary Covid-19 Effectiveness and Need” at International dependency in Covid-19 and application of Chemistry, Biology, Medicine and Engineering International Virtual Conference On “Strategies of self dependency in Covid-19 and application of Exotic materials in the field of Physics, Chemistry, Biology, Medicine and Engineering”. Organized by Department of Physics, SVP College, Bhabhua, BiharSingh University, Ara In association with Society For Technologically Advanced Materials Of India (STAMI)(May 29-31,2020)

RESEARCH PROJECT PROPOSAL SUBMITTED IN 2021-2022

TITLE	FUNDING AGENCY	AMOUNT	PI	STATUS
Floristic Biodiversity and Sustainable Resource Management of Leaf Plate Making Source Trees for Socio-Economic Upliftment of Ethnic People in Lawalaung Wildlife Reserve and its Adjacent Areas in Jharkhand	Research & Development (R&D) For Conservation & Development Ministry Of Environment, Forest & Climate Change, New Delhi	₹ 6103040/- (Sixty One Lakh Three Thousand Forty Only)	DR LADLY RANI 31/2022/RE Registration no	RECEIVED 31/03/2022