

Multanimal Modi College

Modinagar-201204 (U.P.)

(Affiliated to Ch. Charan Singh University, Meerut)
(For Teaching Staff)

Title	Dr.	First	Poonam	Last	Kumari	Photograph
		Name		Name		
Designation		Assistant Professor				
Department		Departm	ent of Zool	ogy		
Address		Departm	ent of Zool	ogy, 2 ^{na} Flo	or,	
(Campus/Department)		Multanimal Modi college, Modinagar, Uttar Pradesh-201204				122
(Residence)		H.No. AE-153, Avantika, ChiranjeevVihar, Ghaziabad, Uttar Pradesh-201002				
Phone No (C	Campus)	-			A. Company	
(Residence)	optional					
Mobile		+91-9690	0784754			,
Fax		-				WINE CONTRACTOR OF THE CONTRAC
Email		bpoonam	15@gmail	.com		arthur line of the land of the
Web-Page		-				

EDUCATIONAL QUALIFICATIONS

Degree	Institution	Year	Details
Doctor of Philosophy (Ph.D)	Indian Institute of Technology, Roorkee	2020	Thesis Title: "Anti-biofilm activity of terpenes and their mechanism against <i>Cryptococcus neoformans</i> using integrated omics approach"
M.Sc. (Life Science) Ed II years integrated	Regional Institute of Education, Bhubaneshwar (Utkal University)	2011-2013	Subjects: Cell biology & Genetics, Molecular Biology, Biophysics, Instrumentation, Biotechnology & Genetic Engineering, Microbiology, Endocrinology, Animal physiology, Developmental Biology, Biosystematics & Evolution, Immunology, Environmental Biology and Toxicology, Pedagogy in Life science education Specialization: Biochemistry
B.Sc. B.Ed. IV years integrated	Regional Institute of Education, Ajmer (Maharishi Dayananda Saraswati University)	2010-2013	Subjects: Zoology, Botany, Chemistry, Teaching of Biological sciences, Psychology of learner, Education and Indian Society, Internship & School Management

CAREER PROFILE

Organization / Institution	Designation	Duration	Role(s)
Multanimal Modi College, Modinagar (Affiliated to C.C.S. University, Meerut)	Assistant Professor	Joined on 16 th June 2022	Teaching faculty for Zoology (subjects yet to be decided)
GlaxoSmithKline (GSK) Global India Pvt Ltd	Regulatory Specialist-III (RIM)	1 year (2021- 2022)	Cessation of supply project, Data management- DER processing in Regulatory Veeva- Vault, QC procedures, data extraction from RIMS to support KPI generation
Indian Institute of Technology, Roorkee	Senior Research Fellow (SRF)	3 years (2016- 2019)	Learnt Proteomics, metabolomics and various biophysical techniques like 1D-SDS PAGE, Two-dimensional gel electrophoresis, Nuclear magnetic resonance, mass spectrometry, gas chromatography/ mass spectrometry, FTIR.

Indian Institute of Technology, Roorkee	Junior Research Fellow (JRF)	2 years (2014- 2016)	Learnt basic microbiology and microscopic techniques like culturing, XTT assays, sample preparation for Scanning electron microscopy, Transmission electron microscopy and Confocal microscopy.
Gurukul-The School, Ghaziabad	Teacher	1 year (2010- 2011)	Taught Science and Mathematics

Research Interests / Specialization:

Proteomics of fungal pathogen (microbes), protein biochemistry, Metabolomics, Pathway analysis

Workshops attended:

- 5DaysHands-onWorkshoponMolecularBiotechnology and Bioinformatics,12to
 16thJanuary, 2015,InternationalCentreofStemCells,Cancer andBiotechnology(ICSCCB),Pune.
- **2. Emerging Trends in Target Identification and Drug Design**, 31stJanuary, 2018, JIIT,Noida.
- **3. WorkshoponReferencemanagementusingMendeley**, 22November,2018,IIT Roorkee.
- **4. WorkshoponBasicAspectsofMagneticResonanceanditsapplications**, 26-28November,2018,DepartmentofBiotechnology,IITRoorkee

Publications in Indexed/ Peer Reviewed Journals

Year of	Title	Journal/Book(s)	Co-Author(s)
Publication 2020	Characterizationof recombinantthermostablemanganese-superoxidedismutase(NeMnSOD) from Neriumoleander	Molecular Biology Reports	RashmiGangwar,PoonamK umari,ApurvaChatrath,Ra masarePrasad
2019	DelineatingBiofilmInhibitionMechanis m ofPhenolic/Aldehydic Terpenesagainst <i>Cryptococcusneoforma</i> ns	ACS Omega	PoonamKumari,NehaAro ra,ApurvaChatrath,Rash miGangwar,VikasPruthi, KM Poluriand RamasarePrasad

2019	Delineating thermotolerant responses of a halotolerant microalga using integrated omics approach to identify genetic engineering targets for enhanced TAG production		NehaArora,PoonamKu mari,AmitKumar,Rash miGangwar,Khushboo Gulati,Parul A.Pruthi,RamasarePras ad,DineshKumar,Vikas PruthiandK Mohan Poluri
2019	In Vitro Anti-BiofilmActivities of Citral and Thymol Against Candida Tropicalis	Journalof Fungi	ApurvaChatrath,Rash miGangwar,PoonamK umari, RamasarePrasad
2018	Investigation of Differentially Expressed Proteins of Candidatropicalis Biofilm in Response to Citral	Journal ofProteomics andBioinformatics	ApurvaChatrath,Poona mKumari,RashmiGang warand RamasarePrasad
2017	Antifungal andAnti-BiofilmActivity ofEssential OilActiveComponentsagainstCryptoco ccusneoformansand Cryptococcuslaurentii	Frontiers inMicrobiology	PoonamKumari,Rutusmi taMishra,NehaArora,Ap urvaChatrath,RashmiGa ngwar,Partha RoyandRamasarePrasad
2017	Synergistic effects of Woodfordiafruticosagold nanoparticlesin preventing microbialadhesionand accelerating woundhealing inWistaralbino ratsinvivo	MaterialScience andEngineering C	NavdeepRaghuwanshi, Poonam Kumari,Amit Kumar Srivastava,Priya Vashisth, TaraChand Yadav,RamasarePrasad , Vikas Pruthi
2015	Exploringthe Effectivenessof ConstructivistApproachon Academic Achievement in Biologyat Higher SecondaryLevel	epiSTEME6	Animesh Kumar Mohapatra & Poonam Kumari
2013	Genotoxicand HistopathologicaleffectsofCadmiumin MaleSwiss AlbinoMice, Musmusculus	TheBioscan	Animesh KumarMohapatra, Shivika Dattaand Poonam Kumari
2009	Cadmium induced histopathologicalchangesinthe stomachand smallintestine of Swissalbino mice <i>Musmusculus</i>	JournalofAppliedand NaturalScience	Animesh Kumar Mohapatra, Poonam Kumariand Shivika Datta

Conference Presentations: International/National						
1.	AlterationsofCellMembraneInte grityandExtracellularPolysaccha ridesMatrixof <i>Cryptococcusneoformans</i> BiofilmonExposuretoEssential Oil Active Components	"International Conference on Advances in Biosciences andBiotechnolo gy"	Jaypee Institute of Information Technology, Noida	01-03 February, 2018	International	
2.	AntibiofilmactivityofEssentialoil Activecomponentsagainst <i>Crypto</i> coccusneoformansandtheirsafety prospects	"AmericanChem icalSocietyonCa mpus"	Indian Institute of Technology, Roorkee	07 th February, 2018	International	
3.	Delineating the halo- tolerancemechanismof Scenedes mussp. Byintegratedomics approa ch: Potential implications for biofuel production	"26 th European Biomass Conference and Exhibition"	Copenhagen, Denmark	14 th -17 th , May 2018	International	
4.	Deciphering the Biofilm Eradication Mechanism ofThymol against <i>Cryptococcus</i> neoformans Using Multi-omics approach	"8th ASMConference on Biofilms"	Washington DC, United States	07 th -11 th October, 2018	International	
5.	In-silico studies and functional validation of salt inducible S6PDH gene in rice using RNAitechnology	"International Conference on Molecular Signaling: Recent Trends in BiomedicalandT ranslationalRese arch"(ICMS:RT BTR-2014)	Indian Institute of Technology, Roorkee	17 th -19 th October, 2014	International	
6.	Cadmiuminduced histopathological changes in stomach and small intestine of swiss albino mice, Mus musculus	"5 th National Teachers Science Congress"	Regional Institute of Education, Bhubaneswar	1 st to 4 th October 2009	National	
7.	Histotoxicity of cadmium in liver, kidney and testis of swissalbino mice, <i>Mus musculus</i>	"99 th Indian Science Congress"	Kalinga Institute of Industrial Technology, Bhubaneswar	3 rd to 7 th January, 2012	National	

Books/Reports/Chapters/Generalarticle

S.No.	Title	Author'sname	Publisher	Year ofpublicati
				on
1.	Vitiligo:	Animesh	Emerging	2012
	TheWhitening	K.Mohapatra&	Science	
	SkinDisorder	PoonamKumari		
2.	Bioluminescence:	AnimeshK.	ScienceHorizon	2014
	TheColdLight	Mohapatra		
		&PoonamKuma		
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Patentsoradditionalinformation

❖ Submitted Nerium oleander subsp. oleander methyltransferasem RNA, partial cDNA seque ncewith accession no. MH504111 in NCBI genebank database.

Roman

(Signature of Faculty Member)

(Signature & Stamp of Teacher In-Charge/Principal)