


NAME	Dr. Kumud Bala		
DESIGNATION	Professor		
EMAIL ID	kbala@amity.edu		
CONTACT NUMBER	+91-9811292212		
RESEARCH INTERESTS	Cancer Immunology, Pharmaceutical Biotechnology, Immunology and Immunotechnology, Oral Cancer, Pharmacognosy		
EDUCATIONAL QUALIFICATIONS:			
Name of College / University	Degree	Year	
Patna University.	Ph.D	2003	
Patna University	R.E.T (Research Entrance Test leading to Ph.D Degree)	1999	
UGC	B.E.T(Eligibility for lectureship exam)	1996	
Patna University	M.Sc	1995	
Patna University	B.Sc	1992	
Title of Ph.D. thesis: Use of Mimosa Pudica and Vinca Rosea extracts for reduction of pesticide induced toxicity in Bone Marrow of Swiss Albino mice			
EXPERIENCE (in chronological order): Total 20 Years Research & Teaching			
Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Professor	Teaching	Amity Institute of Biotechnology	2019- till date
Associate Professor	Teaching	Amity Institute of Biotechnology	2013-2019
Assistant Professor (Grade – III)	Teaching	AIB/ Amity University	2009-2013
Lecturer	Teaching	AIAFSRAT/ Amity University	2007-2009
Senior Lecturer	Teaching	St. Columba’s College, Hazaribag/ Ranchi University	2000-2007
Lecturer	Teaching	St. Columba’s College, Hazaribag/ Ranchi University	1996-2007
No. of Ph.D. students supervised	2 Awarded		
	6 Ongoing		
No. of Post-Doc	Nil		
No. of M.Tech. Students supervised:	More than 100		
No. of B.Tech. Students supervised:	More than 200		

PUBLICATIONS
(mention total no.
here)

1. Preclinical Assessment of Stem of *Nicotiana tabacum* on Excision Wound Model. Bioorganic Chemistry (2021), doi: <https://doi.org/10.1016/j.bioorg.2021.104731> (I.F 5.26)
2. In vitro antioxidant activity of defatted seed extracts of *Ocimum sanctum* on rat PC-12 cells and its inhibitory efficacy with receptors of oral squamous cell carcinoma. Ind Crops Prod [Internet]. 2020 Oct;154:112668. (I.F 5.6)
3. Role of Toll like receptor in progression and suppression of oral squamous cell carcinoma. Oncol Rev [Internet]. 2020 May 19;14(1). (I.F 3.75)
4. Antioxidant and Antimicrobial activity of Protein-AgNPs of Stem of *Nicotiana tabacum*. Curr Bioact Compd [Internet]. 2021 ;16(6):1–13. Available from: <https://www.eurekaselect.com/184053/article> (I.F 0.69)
5. Investigating Alpha Amylase Enzyme Production By Human Microbiota. Asian J Microbiol Biotechnol Environ Sci [Internet]. 2020;22(1):99–106. (I.F 0.11)
6. Isolation And Molecular Characterization Of Heavy Metal Resistant Bacteria From Barrages Of Yamuna River, New Delhi, India. *Plant Cell Biotechnology And Molecular Biology*. 2019; 20(5-6), 212–221.
7. Antimicrobial Activity Of Total Intracellular Protein Isolated From Probiotic Intestine Microbiota. Asian Jr. of Microbiol. Biotech. Env. Sc. 2018; 20(4): 1253-1258. (I.F 1)
8. Study of Excess Fluoride Ingestion and Thyroid Hormone Derangement in Relation with Different Fluoride Levels in Drinking Water Among Children of Jodhpur District, Rajasthan, India. Asian Jr. of Microbiol. Biotech. Env. Sc. 2018; 20 (1). (I.F 1)
9. Study of Excess Fluoride ingestion and effect on liver enzymes in children living in Jodhpur district of Rajasthan. Indian journal of public health research and development. 2018; 9(1). (I.F 0.5)
10. Neuroprotective ability of TMV coat protein on rat PC-12 cells and it's in silico study with LRRK2 receptor. Neurol Res. 2018;40(12). (I.F 2.01)
11. Prevalence of dental fluorosis in relation with different fluoride levels in drinking water among children of jodhpur district, rajasthan, India. Asian Journal of Microbiology, Biotechnology And Environmental Sciences. 2017; 19 (3). (I.F 0.09)
12. Neuroprotective Ability of Tobacco Stem Silver Nanoparticle on Rat PC-12 Cells. Asian Journal of Pharmaceutics 2017; 11(4). (I.F 1)
13. Assessment of dental fluorosis in children of Jaipur district, Rajasthan, India. Asian Journal of Pharmaceutical and Clinical Research. 2017; 10(8)161-164.
14. Assessment of skeletal fluorosis among children in two blocks of rural area, Jaipur district, Rajasthan, India. Asian Journal of Pharmaceutical and Clinical Research. 2017; 10(9).
15. The Emerging Trends of Nanoscience in Cosmetics. IJSRE. 2017; 5(8).

(I.F 0.11)

16. Antioxidant Activity of Isolated Protein Mixtures from Seeds of *Azadirachta indica*, *Ocimum sanctum* and *Momordica charantia*. *European J Med Plants* [Internet]. 2017 Jan;19(2):1–10.
17. Isolation and characterization of lactose and non-lactose fermenting bacteria from tertiary care hospital and their antimicrobial susceptibility test. *Asian Journal of Pharmaceutical and Clinical Research*. 2017; 10(2).
18. Adverse Effect Of Combined Oral Contraceptive Pills. *Asian Journal of Pharmaceutical and Clinical Research*. 2016; 10(1).
19. Prevalence of dental, skeletal and non-skeletal fluorosis in children of Jaipur district of Rajasthan. *Indian Journal of Applied Research*. 2016; 6(11).
20. Association of COL1A2 gene polymorphism with dental fluorosis in children of Jaipur district of Rajasthan, India. *Asian Pacific Journal of Health Sciences*. 2016; 3 (4).
21. Assessment of Non-skeletal fluorosis in children of Jaipur district of Rajasthan, India. *International Journal of Scientific Research*. 2016; 5(12).
22. Comparative Study of Different Parts of Fruits of *Musa Sp.* on the Basis of their Antioxidant Activity. *Der Pharmacia Lettre*. 2016; 8(15).
23. Radio protective herbal formulation against UV exposure. *International Journal of Pharma Sciences and Research (IJPSR)*. 2016; 7(10).
24. Nasal carriage of methicillin resistant staphylococcus aureus (mrsa) in health care workers and healthy individuals in a tertiary care hospital. *International Journal of Pharmacy and Pharmacuetical Science*. 2015(0975-1491).
25. Prevalence of vitamin D/B12 deficiency among urban populations complaining pain of lower limb and generalize weakness. *Asian Journal of Pharmacuetical and Clinical Research*. 2016; 2455-3891.
26. Nosocomial infection by nonfermenting gram –ve baccili in tertiary care hospital: screening and care. *IJPPS*. 2016; 8(3).
27. Comparative Account of Microbial Load Assessment in a University Cafeteria. *International Journal of Pharma Research and Health Sciences*. 2015; 3(5).
28. Identification and antibiotic susceptibility testing of urinary isolates in a tertiary care hospital. *Der Pharmacia Lettre*. 2015; 7(9). **(I.F 0.11)**
29. Endosulfan Induced Male Infertility Study in Swiss Albino Mice: Evaluation of Effect on Testosterone and Sperm Count. *THE INTERNATIONAL JOURNAL OF SCIENCE & TECHNOLEDGE*. 2015; 3(6).
30. Aluminium Phosphide: Toxicity Mechanism And Credible Treatments. *World Journal of Pharmacy and Pharmaceutical Sciences*. 2015; 4(10).
31. Tuberculosis And HIV Double Trouble. *World Journal of Pharmacy and*

<p>Pharmaceutical Sciences. 2015; 4(5).</p> <p>32. Herbal contraceptive: an overview. World Journal of Pharmacy and Pharmaceutical Sciences. 2014; 3(8).</p> <p>33. Current status and future potential of herbal radioprotectants. World Journal of Pharmacy and Pharmaceutical Sciences. 2014; 3.</p> <p>34. MicroRNA's: Role in Diabetes. World Journal of Publisher. 2014. (M/201/WJP)</p> <p>35. Estrogen: The most probable cause of gender biasness in Leber Hereditary Optic Neuropathy. International Journal of Pharmacy and Pharmacuetical Sciences. 2014; 2(2).</p> <p>36. Biodegradable Capsules: A Review. World Journal Of Pharmacy And Pharmaceutical Sciences. 2013; 2(6).</p> <p>37. Bioavailability Enhancement of Curcuminoids using Natural Polymer. Der Pharmacia Lettre. 2012; 4 (6):1698-1711.</p> <p>38. RNA based Therapeutics. International Journal of Pharmacy and Pharmaceutical Sciences. 2012; 4:, 1-11.</p> <p>39. Biodegradable Polymers, Role in Enhancing Bioavailability of Drug. Asian Journal of Biomedical and Pharmaceutical Sciences. 2011; 1 (5) : 01-11.</p> <p>40. Dealing Wildlife Offences in India: Role of the Hair as Physical Evidence. Int J Trichology. 2009; Jan-Jun; 1(1): 18–26.</p> <p>41. Effect of Vitamin c on Testicular Structure in Malathion Treated Swiss Albino Mice. Trend in Life Sciences. 2009; 24(2): 45-51</p>					
PATENTS (total no.)		S. No	Title	Name of Inventor	Patent Application No.
		1.	Novel Formulation for Quercetin for the treatment of Alzhemier's Disease	D.P. Katare, Kumud Bala H Kharakwal	3154/DEL/2011
		2.	Novel Formulation for treating NASH	D.P. Katare, Kumud Bala H Kharakwal	102/DEL/2012
		3.	Novel formulation of Standardized Extract of Psoralea corylifolia for the	D.P. Katare Kumud Bala, N Mathur, H Kharkwal	2103/DEL/2012

			treatment of Liver Cirrhosis	Vidhu Aeri		
		4.	Synthesis of a Novel analogue of Sorafenib for the treatment of hepatocellular Carcinoma	D.P. Katare, H Kharakwal, Kumud Bala	1661/DEL/2012 (Granted)	
		5.	Novel Synergistic Drug for HCC	D.P. Katare J Moses (Nottingham Univ) SK Jain H Kharakwal P Sharma Kumud Bala DD Joshi.	1374/DEL/2012	
		6.	Targeted Drug Delivery For Liver Carcinoma Using Silymarin-Drug Conjugates	D.P. Katare J Moses SK Jain P Sharma, Kumud Bala , H. Kharkwal DD Joshi	1239/DEL/2012	
		7.	Dietary Supplement for Treating Malathion induced Toxicity in Rats	Kumud Bala H Kharakwal D.P. Katare	354/DEL/2012 (Granted)	
		8.	Profound effect of Curcumin along with Vitamin-C on malathion induced toxicity reduction	Kumud Bala H Kharakwal D.P. Katare	1321/DEL/2012 (Granted)	
		9.	Novel Prebiotic Product for treating Hemorrhoids	H Kharakwal D.D.Joshi D.P. Katare, Kumud Bala	171/DEL/2012	
		10.	Herbal Colors for Food and Cosmetic Industry	H Kharakwal D.D.Joshi D.P. Katare, Kumud Bala Navin Nainwal	40/DEL/2012 (Granted)	
		11.	Shampoo for dry and greasy hair	H Kharakwal D.P. Katare Kumud Bala Navin Nainwal	467/DEL/2012 (Granted)	
		12.	Polymer based Gelatin free Capsules	H Kharakwal Kumud Bala D.P. Katare D.D. Joshi Amit C	1031/DEL/2012	

				Kharkwal		
		13.	Carbohydrate Based Biodegradable and Hydrobiodegradable Plastics	H Kharakwal D.D. Joshi D.P. Katare Amit C Kharkwal Navin Nainwal Kumud Bala	2140/DEL/2012	
		14.	Rivastigmine and Quercetin Conjugate form for the treatment of Alzhiemers	D.P. Katare, Kumud Bala , R Jakhmola, P Kakkar	2414/Del/2013	
		15.	A novel Synergistic Dicyopentyl Compound and its method of preparation thereof	D.P. Katare, L Chawla, Kumud Bala	2124/Del/2013	
		16.	A novel synergistic formulation for inhibition of tumor growth and method of preparation thereof	D.P. Katare, Kumud Bala , S Mishra	2372/Del/2013	
		17.	Tacrine and Quercetin conjugate form for treatment of Alzheimer's Disease	D.P. Katare, P Sharma, R Jakhmola, Kumud Bala	2897/Del/2013 (Granted)	
		18.	Antiovolatory Lepidin Based Novel Formulation	D.P. Katare, Kumud Bala H Kharkwal	2986/Del/2013	
		19.	A method for preparing the quercetin loaded nanoparticle	Deepshikha Pande Katare, kumud Bala (AIB), Harsha Kharkwal (AIHRS), dpkatere@amity.edu (M) - 9811768019	3154/DEL/2011 (Granted)	
RESEARCH PROJECTS Completed: (<i>total no. 2</i>) Ongoing: (<i>total no.3</i>)	Name Of Scholars	Project Title	Funded	Grant Year	Completion/Ongoing	PI
	Yash Sharma	Anticancer Activity Of Seed Cake Extract Of O. Sanctum Against Osec Cell Line And Its Tumor Suppressor Gene	ICMR-SRF	2021	Ongoing	Dr. Kumud Bala

		Analysis				
	Mohini Agarwal	Role Of Toll Like Receptor: Tlr3 And Tlr9 In Progression Of Cervical Cancer.	ICMR-SRF	2019	Ongoing	Dr. Kumud Bala
	Manish Kumar	Nano-Formulation Of Antimicrobial Agent From Bioactive Compound Of Valeriana Wallichii Root Against Mdr Strain Of Acinetobacter Baumannii.	ICMR-SRF	2019	Ongoing	Dr. Kumud Bala
	Yash Sharma	Formulation of Tobacco Stem Bioactive Compound Loaded Nanoparticle for Wound Healing	DST SERB	2017	Completed	Dr. Kumud Bala
	Vivek Sehajpal	Diagnosis of Death: Diatom Test	ICMR	2012	Completed	Dr. Kumud Bala
Workshop Conducted	<i>Name of the Workshop/Seminar/symposium</i>			<i>Year</i>	<i>Sponsoring Agency</i>	<i>Responsibility</i>
	Enhancement of Fish Breeding with the help of Vitamin C formulated feed.			14-16 Feb 2000	DST	Organizing Secretary
	International symposium on Forensic Science			1-4 Aug 2007	DST	Organizing Secretary
	Crime Scene Investigation			25 Oct 2010	DST	Organizing Secretary
	Forensic Anthropology			25th Oct 2010	DST	Organizing Secretary
	Problem Based learning			25th Oct 2010	DST	Organizing Secretary

	Workshop for Doctors.	25th Oct 2010	DST	Organizing Secretary
AWARDS & HONOURS/ DISTINCTIONS	1. SAS Best Academician Award 2021 2. SAS Best Teacher Award 2020 3. Award of Excellence, AIIMS for Organizing 10 th INPALMS 2010 4. Teacher Fellowship, UGC 2003 5. Special State Merit Scholarship 1992			
MEMBERSHIP with Professional/ Academic bodies	1. Technical Chair - Bioscience and Biotechnology, ICEIL 2. Member of Institutional Biosafety Committee 3. Member of Institutional Ethics Committee 4. Life time Member of ISCA 5. Coordinator, Amity University PACIFIC FORUM. 6. Member of the Board of Studies of Amity Institute of Advanced Forensic Science Research and Training, and have developed the syllabus for one year Diploma Course in Forensic Science. 7. Member of Board of Studies at Amity Institute of Biotechnology 8. Convener Patent Commercialization Committee, at Amity University, Noida 9. Core member of Institutional Animal Ethics Committee (IAEC) approved by CPCSEA, GOI, Ref no-AUUP/AIP/66/10/05-02. 10. Core Member of Focus group “Health Infrastructure Including Skill Development , Information Technology and Health Insurance” nominated by PHDCCI Health Expert Committees-2011-2012. 11. Core Member FSMS(Food Safety Management system) QAE, Amity University, Sector-125, Noida.			