Biodata

Name: Dr. Manisha Bansal

Designation: Assistant Professor (Stage III)

Department: Chemistry

Institute: Punjabi University Patiala

Address: 44, Mansahia Colony 21 No. Phatak, New Sant Nagar, Patiala

Date of birth: 01-01-1979

• Particulars of Examination Passed

S.No.	Exam	Subjects	Institut	Year	Marks	Total	%age	Merits
			e	of passin g	Obtain ed	marks	of marks	
1.	Matric	Eng, Punjabi, Maths, Science, Social Science	CBSE	1995	358	500	71.6	-
2.	10+2	Eng, Punjabi, Chemistry, Physics, Biology	PSEB	1997	277	450	61.55	-
3.	B.Sc .(Med)	Eng, Punjabi, Chemistry, Botany, Zoology	Pbi. Uni, Patiala	2000	1680	2400	70.0	3 rd in univer sity

4.	M.Sc.	Natural	Pbi. Uni,	2002	558	800	69.7	-
		Products-I, II	Patiala					
		Mod. Syn.						
		Rx-I, II						
		Analytical chemI, II						
5.	Ph.D.	Done	Pbi. Uni, Patiala	2007	-	-	-	-
6.	Net	Qualified	-	2003	-	-	-	-

Ph.D : Synthetic and medicinal Chemistry

Topic: SYNTHESIS OF NEW SUBSTITUTED IMIDAZOLINE ISOSTERES AND THEIR ACYCLIC ANALOG BASED CENTRALLY ACTING ANTIHYPERTENSIVE AGENTS

• Teaching Experience

Name of institute	Designati	from	To	Yea	Mont	Exp.	Exp.	Last pay
	on			rs	h	Under graduat e	Post garduat e	drawn
Govt. Ranbir College of Sangrur	Guest Lecturer	01-sep 2002	31-jan 2003		5	5month		6000 -
M.M. Modi college Patiala	Adhoc Lecturer	28-jul 2003	15- march 2004		8	8 month		6000 -

Dept. Of Chemistry	Researh	05-sep	06-jun		9		9 month	9200 -
Pbi. Uni. Patiala	Fellow	2005	2006					
Dept. Of Chemistry	Adhoc	02-aug	31-jul-	5			5 years	35000 -
Pbi. Uni. Patiala	Lecturer	2006	2011					
UCOE	Contract	Jul	March20		6	6		500 - per
	Lecturer	2009	10			months		lecture
Department of	Regular	1-	Onwards					
Chemistry Punjabi		August						
University Patiala		- 2011						
Department of botany,	Guest	2019				6		500/- per
Punjabi University	Faculty					months		lecture
Patiala								

Total Teaching Experience excluding research: 17 years approximately

Total Research Experience: 15 years

Field Of Research:

• Synthetic Organic and Medicinal Chemistry

• Synthetic Organic and Photochemistry

List of Publications:

Sn.	Торіс	Author	Year	Journal	ISSN No.	Im	Impact Factor in 2022
						fac	
1.	Synthesis and photodegradation of 3-Hydroxy-(2-Furany-2-yl)-4 <i>H</i> -chromen-4-one	Manisha Bansal, Dupinder Kaur		Journal of Punjab Academy of sciences 5-6 (1&2)			
2.	Rose Bengal Sensitized Photorearrangement of 6- Chloro-3-hydroxy-2-(2`- thienyl)-4-oxo-4 <i>H</i> -1- benzopyran	Bala R. Bansal M., Bansal W. R	September 2010	Canadian journal of chemical engineering and technology Vol. 1, No. 3,			
3.	Excited- State Intramolecular Proton Transfer Studies on the 6- Chloro-3-hydroxy-2-(2'- thienyl)-4-oxo-4H-1- benzopyran in Different Solvents.	Bala R., Bansal M., BansalW. R.*	July 2012	J. Indian Chem. Soc., Vol. 89, , pp. 873-880		0.9	
4.	Electromeric Effect of Substitution at 6 th Position in 2-(Furan-2-yl)-3-hydroxy-4 <i>H</i> -chromen-4-one (FHC) on the Absorption and Emission Spectra	Bansal*, M. And R Kaur,	March/201 5	Journal of chemical sciences,Vol. 127,No. 3, March 2015, pp. 404- 412	09743626,09737103	1.2	
5.	Evaluation of DPPH radical scavengin activity of 2-Furanan-2'-yl)-3-Hydroxy-4H-chromen-4-one and their derivatives	Bansal* M. And Kaur R., Kaur K	June/2016	Asian Journal of Chemistry ,Vol. 28, No.9 (2016),Pages1921-1924	0975-427X, 0970- 7077	0.1	
6.	Comparative Studies in the Fluorescenceand Excitation Spectra of 3-Hydroxyfla vone(3HF) and 2(2'-heteroaryl)-3-hydroxy-4 <i>H</i> -chromen-4-ones	Bansal* M. And Kaur R., Kaur K	June/2017	Journal of applied spectroscopy, Volume 84, N 2	0021-937 , 1573-8647	0.6	
7.	Photoreactions of 2-(furan-2-yl)-3-hydroxy-4 <i>H</i> -chromen-4-one and 3-hydroxy-2- (thiophene-2-yl)-4 <i>H</i> -chromen-4-one in cyclohexane and acetonitrile as solvent.	Bansal* M. And Kaur K. Jyoti, Kaur R	May/2017,	Photochemical and photobiological sciences, 00, 1-9 accepted in may 2017	1474-905X, 1474-9092	2.9	3.982
8.	Synthesis of Flavones: A mini review	Bansal M.*, Kaur K., TomarJ and Kaur L.	NOV/2017	Biomedical journal of science and technical research	2574-1241		

9.	A Review: On photochemistry of 3-hydroxyflavone,		2017	International Conference at RayatBahra University, Mohali,			
10.	A Review on structural and antibacterial activities of quinolones	Gurmeet Kaur and Manisha Bansal	Feb/2018	IJR International conference at Dev Samaj College for women, Ferozepur,			
11.	Role of hydrogen in ground and excited state studies of 2-aryl-3-hydroxychromen -ones in different solvents	Bansal M.*, Kaur K., TomarJ.	April/2019	Canadian Journal of Chemistry	0008-4042, 1480- 3291	1.0	
12.	The detection of the precursor of the Photorearranged product of 3-Hydroxy flavones in selected solvents from UV-vis spectra in situ	Bansal M.*, Kaur K., Tomar J.	Oct/2019	Photochemical and photobiological sciences,	1474- 905X, 1474- 9092	2.9	3.982
13.	Theoretical molecular predictions and antimicrobial activities of newly synthesized molecular hybrids of Norfloxacin and Ciprofloxacin	Manisha Bansal*, Kaur G., Kaur M., Sharad L.	Dec/2019	Journal of heterocyclic chemistry	002-152X	1.2	2.19
14.	Detection of a Precursor of the Photorearranged Products of 3-Hydroxyflavones in Selected Solvents from the UV-visible Spectra in Situ	Manisha Bansal* Jyoti Tomar, Kulvir Kaur and	Oct/2019	Photochemical and photobiological sciences,	1474- 905X, 1474- 9092	2.9	3.982
15.	New insights of structural activity Relationship of curcumin and Correlating their efficacy in anticancer studies with some other similar molecules	Manisha Bansal* Gurmeet Kaur, Mandeep Kaur,	Aug/2021	American Journal of Cancer Research	2156-6976/ajcr01269 47	6.1	6.1
16.	Synthesis and studies of new purines/ s as multi-targeted agents involvin tes in the immune system.	Manisha Bansal*, M. Hafiz Rehman Gurmeet Kaur, Mandeep Kaur,	2023	Molecular Diversity springer	1381-1991	3.3	3.36
17.	Switching of newly synthesized list of non-steroidal anti-inflammatory dramatory and anticancer activity.	Manisha Bansal* M. Hafiz Rehman Gurmeet Kaur, Mandeep Kaur, Amandeep Kaur	2023	Bioorganic chemistry Science direct	00452068, 10902120	5.3	5.307
18.	Investigating multifaceted action of	Manisha Bansal*	2023	Journal of Biomolecular	07391102, 15380254	5.2	5.2

s towards cox isozymes and interleuk	M. Hafiz	Structure and Dynamics		
	Rehman			
ating with various target sites.	Gurmeet	Taylor and francis		
	Kaur,			
	Mandeep			
	Kaur,			
	Amandeep			
	Kaur			

2009-202	14 conferences				
S.No.	Title of the Conference /Seminar attended	Year	Organizer	National /International	Topic of presentation
1.	1st National Seminar on Chemistry	2009	Department of chemistry, Punjabi university patiala	National	Excited State Intramolecular Proton Transfer (ESIPT) Studies on 6-Chloro-3- Hydroxy Flavone Bansal, M., Kaur D. 2. Reactions of Chemically Produced Singlet Oxygen with 6-Chloro-3-Hydroxy -2-(2'-Thienyl)-4-Oxo-4H-1-Benzopyran Bala R., Bansal M.
Chaired t	he session and conve	ner of t	he cultural even	ts	
	Annual Conference on Recent Advances in Chemical Environmental Sciences	2009	M.M.Modi college Patiala		Attended
	National Symposium on Green Chemistry: Application in Science and Engineering (NSGC-2009)	2009	TIET Thapar University		Attended
	2 nd National Seminar	2010	Department of	National	Synthesis and Initial Photochemical

	on Chemistry		chemistry, Punjabi university patiala		studies with 3-Hydroxy-2-(Furan-2-yl)-4H-chromene-4-one' Bansal M.* ,Kaur R
Chaired the	session and conve	ner of tl	he cultural even	ts	
	3rd National Seminar on Chemistry on 'Recent Advances in Chemistry and their Impact on Environment'	2011	Department of chemistry, Punjabi university patiala	National	Synthesis and Initial Photodegradative Studies with 3-Hydroxy-2-(Benzofuran-2-yl)-4 <i>H</i> -Chromen-4-One Bansal* , M ., Kaur, R.
Chaired the	session and conve	ner of tl	he cultural even	ts	
	International conference on 'Innovation in Chemistry for sustainable development'	2011	PanjabUniversity. chandigarh	International	Synthesis and mechanistic features of photochemical reaction of 3-HBP and 2F-3-HC' Bansal* , M ., Kaur, R.
	National Seminar on Chemistry: An Interdisciplinary Science	2012	Department of chemistry, Punjabi university patiala	National	Comparative studies of differently substituted 3-Hydroxy flavones, Bansal* , M ., Kaur, R.
	the session and co	nvener (vents	
	5 th National conference on New frontiers in Chemistry	2013	Department of chemistry, Punjabi university patiala	National	Comparative study of initial photochemical reactions of Variously Substituted 3-hydroxyflavones"Bansal*, M., Kaur, R., Kaur, K.
Chaired the	session and conve	ner of tl	he cultural even	ts	
	National conference on Recent advances in chemical and environmental sciences	2013	M.M.Modi College	National	Photochemistry of 3-hydroxy flavones, Bansal , M . and Kaur, R.
	Practical aspects on the importance of patents in research (PAIPR-2013)	2013		One day workshop	
	National conference	2014	Khalsa college	National	Synthesis and Photodegradation of 2-(2'-furyl)-3-hydroxy-4H-chromen-4-one using Methylene blue as a dye' Bansal*, M., Kaur, R., Kaur, K.
	6 th National seminar on New Paradigm in chemical Sciences-2014	2014	Department of chemistry, Punjabi university patiala	National	Comparative study in direct and dye sensitized photolysis of 2-(2'furyl)-3-hydroxy-4H-chromen-4-one" Bansal*, M., Kaur, R., Kaur, K.
Chaired	the session and co	nvener (of the cultural e	vents	

2015-20	2015-2020 Conference								
S.No.	Title of the Conference	Year	Organizer	National or	Topic of presentation				
	/Seminar attended			Internationa					
				1					
1.	7 th National	2015	Dept. of	National	'Electromeric Effect				

	Seminar		Chemistry		of Substitution at 6 th Position in 2-
	Entitled "Synergistic		Punjabi		(Furan-2-yl)-3-hydroxy-4 <i>H</i> -
	Aspects of Chemical and		University,		chromen-4-one (FHC) on the
	Other Sciences		Patiala		Absorption and Emission
	2015(SACOS-2015)		1 dilata		Spectra'Bansal*, M., Kaur, R.,
	2013(BACOS-2013)				Kaur, K.
					Kaur, K.
		2 2 2 2 2			
2.	Chaired the session on 19-				
3.	8 th National paradigm in	2016	Dept. of	National	Evaluation of DPPH Radical
	chemical sciences-		Chemistry		Scavenging Activity of 2-(Furan-
	NPICS-2016		Punjabi		2'-yl)-3-hydroxy-4 <i>H</i> - chromen-4-
			University,		one (FHC) and their derivatives.
			Patiala		Bansal*, M., Kaur, R., Kaur,
			Tuttulu		K., Jyoti
1	Chaire 14h i - Carre				K., Jyou
4.	Chaired the session, Conv			T 1	[C
5.	International conference on	March	Jaipur, National	International	Comparative Studies
	recent trends in Engineering	2016	University Jaipur,		in the Fluorescence and Excitation
	and Material sciences				Spectra of 3
					Hydroxyflavone(3HF) and
					2(2'heteroaryl)-3-hydroxy-4 <i>H</i> -
					chromen-4-ones:
					Photodissociation vs
					Phototautomerizatin
					Bansal*, M., Kaur, R., Kaur, K.
6.	9 th	2017	Dept. of	National	"Synthesis, Characterization and
	National paradigm in		Chemistry		spectral studies of 2-(2'-pyrrole)-
	chemical sciences-		Punjabi		3-hydroxy-4 <i>H</i> -chromen-4-one
	NPICS-2017		University,		(PHC)
			Patiala		ManishaBansal, Kulvir Kaur,
			1 attata		Jyoti and Gurmeet Kaur
					Jyou and Gurmeet Kaur
7.	Chaired the session, Conv	an an fan	ovagnizing oultural nights		
8.	10th National Conference	2018	Dept. of	National	
0.		2018		Ivational	
	CES:IA-2018		Chemistry		
			Punjabi		
			University,		
			Patiala		
9.	International Conference	2018	Dev Samaj College,	, ICHR sponsored	Paper presentation on "A
			Ferozepur in 2nd Feb.		Review on Structural and
			2018	Seminar	Antibacterial Activities of
					Quinolones" Gurmeet Kaur.
					Manisha Bansal
					widiisiia Daiisal
10		2010	D 0 '0"	T 4 2 1	
10.	CancerAwareness Camp	2018	Dev Samaj College,	International	
	:"Understanding Cancer		Ferozepur in 3 rd Feb,		
	and Knowing its Risks"		2018		
11.	15 th National Seminar	2018	Department of	National	Paper presentation on
	"Emerging Trends in		Chemistry, Dev Samaj		"Synthesis, Characterization and
	Chemistry"		College, Ferozepur in		Antibacterial Activity of Amide
	Circuisu y		24 th Feb, 2018		derivatives of
			24 100, 2010		
10		2010	TITE D. 1	*	Manisha Bansal
12.	International Conference	2018	IIT Roorkee in 6-9th	International	rostei rieschtation on
	"COMPFLU-2018"		Decmber, 2018		Synthesis, characterization of 1-
					cyclopropyl-6-fluoro-7-
					(piperazin-1-yl)-3-(substituted
					amine)quinolone- $4(1H)$ -one and
					their Biological Significance in
	1	l			men Biological Digililicance III

					vitro"Gurmeet Kaur, Manisha Bansal
13.	National Conference "RTCES-2019"	2019	Department of chemistry, Punjabi University, Patiala held on 7-8 th Feb, 2019	National	Oral presentation on "Synthesis, Characterization and Biological Significance of 1-cyclopropyl-6-fluoro-4-oxo-7-(4-(cyclicamine-1-carbnyl)piperazin-1-yl)-1,4-dihydroquinoline-3-carboxylic acid"Gurmeet Kaur, Manisha Bansal
14.	National Seminar"CES: IA-2020"		Department of Chemistry, Punjabi University, Patiala held on 19-20 th Feb, 2020	National	Oral presentation on "Studies in newly synthesized derivatives of Fluoroquinolones" Gurmeet Kaur, Manisha Bansal
	om July 2020-2023				
15.	RTDDT Conference-2020	2020		National	Presentation onStructural Activity Relationship and ADMET studies of Curcumin and Rosmarinic Acid Gurmeet Kaur, Manisha Bansal*
16.	Bioshack India 2nd International Conference on Recent Trends in Computational Cancer Biology and Covid-19	2021	(ICRTCCBC-2021), July 24-25, 2021	International	
17.	National conference-cum workshop themed "Post Covid-19 pandemic Era: Prospective shift towards clinical and Translational Research"	2022	16-17 March	National	Poster Presentation In Silico binding interactions of Curcumin with Covid-19 Bat corona virus HKU4-3CL ^{pro} Gurmeet Kaur, Manisha Bansal*
18	International conference	2022	Botany Department, Punjabi University, Patiala	Internation al	
19	National Conference cum workshop themed "post Covid-19 pandemic Era:Prospective shift towards clinical and translational research"	March- 2022	Department of Pharmaceutical Sciences and drug research, Punjabi university patiala	National	In silico binding interactions of curcumin with covid -1 Bat coron virus HKU4- 3CL ^{pro} Gurmeet Kaur, Manisha Bansal*
20	International conference on	Feb 2023	Department of Chemistry unjabi University Patiala	Internation al	

Worked as reviewer

Worked as re	eviewer			
S.No.	Journal	year	Topic	Certificate
1.	Journal of pharmaceutic al research international	2022		yes
2.	International Journal of		Quality Assessment	
	<u>Environment</u>		of	

	and Climate Change		Commercial Bating Enzymes in Selected Kenyan Tanneries for Use in Different Pre-Tanning Processes	
3.	Archive der Pharmazie (Wiley)	2021		yes
4.	Heterocyclic communicati ons	Aug 2021	Synthesis, spectroscopic characterizati on and DFT computationa l study of novel isoxazole derivative	
5.	Heterocyclic communicati ons		Synthesis of Novel Acyclic Nucleoside Analogues Starting From 6- Aminouracil as Potent Antimicrobia l Agent	
6.	Current journal of applied science and technology	2020		yes

List of students doing and done M.Phil. And Ph.D

S.No.	Degree	Year	Name of the	Topic
			student	
1.	M.Phil.	2008-09	Dupinder Kaur	Synthesisof some flavones and initial Photochemical Studies
				with 3-Hydroxy-2-(furany-2-YL)-4H-CHROMEN-4-ONE

2.	M.Phil.	2009-10	Ranbir Kaur	Synthesis of some variously substituted 3- Hydroxychromen-4-one and their photodegradative studies.I.''
3.	M.Phil.	2010-11	Satinder Kaur	Synthesis and initial photochemical degradation of 2-(Furan-2-yl)-3-hydroxy-6-methyl-4H-chromone-4-one
4.	M.Phil.	2010-11	Renu	Synthesis and initial photodegrative studies of 2-(furan-2-yl)-3,6-dihydroxy-4H-chromen-4-one
5.	Ph.D	2012	Ranbir	Thesis submitted
6.	M.Phil.	2015	Vasudha	
6.	Ph.D	2017	Kulvir Kaur	Thesis submittedTopic: Synthesis and Photochemistry of 2-(2-heteroaryl)-3-hydroxy-4 <i>H</i> -chromen-4-ones
7.	Ph.D	2021	Jyoti Tomar	Completed in 2021 Topic: Studies in the photooxidation and photorearrangement reactions of some selected 2-heteroaryl-4H-chromen-4-ones
8.	M.Phil.	2015-2017	Gurmeet Kaur	Synthesis characterization and evaluation of antibacterial activities of ciprofloxacin derivatives
9.	M.Phil.	2018	Lakhvir Sharad	Synthesis characterization and evaluation of antibacterial activities of Norfloxacin derivatives
10.	M.Phil.	2019	Manpreet Kaur	Theoretical molecular prediction, Synthesis and antimicrobial studies of molecular hybris of fluoroquinolones
11.	Ph.D	08 march, 2018 enrollment, Registered 09, may 2019	Gurmeet Kaur	Studies on the Design , synthesis and biological activities of multi-targeted curcumin like compounds

12.	Ph. D	6/Dec/2019	Mandeep Kaur	Studies in linker based novel compounds using multi-
		enrollment		targeted bioactive precursors
		Registered		
		31/12/2020		
14.	M. Phil		Anmol Jain	
15.	Ph. D	25 June,	Amandeep	
		2021,	Kaur	
		Enrollment		

Orientation and refresher course:

Sr.No.	Course	Year	Duration	
1.	Orientation Course	2011	27 days	
2.	Refresher course	2014	21 days	
3.	Refresher course	2015	21 days	
4.	Short term course	2017	7 days	
5.	Short term course	2018	7 days	
6.	One day Workshop	Feb 2018	One day	
7.	Course of Bioinformatics	January 2021	7 days	
8.	MD simulation with GROMAC S and MMPBSA analysis	August 2021	10 days	
9.	Biodeavour Research lab	21 March-05 April	15 days	
10.	7 Days Faculty developmen t course in chemistry in Panjab University chandigarh	August 2022	7 days	

11. Gian Course January 2023 10 days	