Dr. Jitender Bhalla

DAV College, Sector 10, Chandigarh bhalla.jitender1@gmail.com, jitender@davchd.ac.in

Personal Profile	Name Father's Name Date of Birth Gender Marital Status Category Nationality Contact	Jitender Bhalla Amarjeet Bhalla 10-04-1988 Male Married General Indian +91-8168624778
Academic Profile	 PhD. in Organic Chemistry from Panj (2016). M.Sc. in Chemistry from DAV College, Sec B.Sc. in Medical from Kurukshetra Univer 	ctor 10, Chandigarh (2010).
Competitive Examination	• Qualified UGC-JRF-NET in Chemical Science	ces (2010)
Job Profile	 Physical/Inorganic/Organic Chemistry (Lectures and Practicals) – B.Sc. I, II and B.Sc. III at DAV College, Chandigarh (w.e.f., 20th April, 2021 to till date) Physical/Inorganic/Organic Chemistry (Lectures and Practicals) – B.Sc. I, II and B.Sc. III at Dev Samaj College for Women, Chandigarh (10-01-2018 to 20-04-2021) Physical/Organic Chemistry (Lectures and Practicals) – B.Sc. I, II and B.Sc. III at DAV College, Chandigarh (27-07-2017 to 09-01-2018) Physical/Organic Chemistry (Lectures and Practicals) – B.Sc. I, II and B.Sc. III at DAV College, Chandigarh (18-07-2016 to 12-04-2017) 	
Ph.D. Profile	Title of Thesis	Synthesis, Characterization and Biological Evaluation of Hybrid β- Lactams: Search for Potential

	Biologically Active Agents
Name of Supervisors	Prof. S. S. Bari and Dr. Aman
	Bhalla
Area of Specialization	Synthetic Organic Chemistry and
	Heterocyclic Synthesis
Institution	Department of Chemistry and
	Centre for Advanced Studies in
	Chemistry, P. U. Chandigarh
Published Articles	13
Published Book Chapters	4

Research Publications

search rubications		
1.	Synthesis of Novel Pyrazolylmethylene-Pyrimidine Heterocycles: Potential Synthons for Hybrid β-Lactams. <i>Can.</i>	
	Chem. Trans. 2015 , 3, 72-84.	
2.	Facile synthesis of novel monocyclic trans- and cis-3-	
	oxy/thio/seleno-4-pyrazolyl-β-lactams. <i>Arkivoc</i> 2015 , (vii),	
	10-27	
3.	Facile synthesis of novel halogenated 4-pyrazolyl spirocyclic-	
	B-lactams: versatile heterocyclic synthons. Tetrahedron Lett	
	2016 , 57, 2822-2828	
4.	One pot, simple, and efficient synthesis of (E)- and (Z)-3-	
	allylidene- β -lactams from 3-allyl-3-phenylseleno- β -lactams:	
	analogues of β -lactamase inhibitors. <i>Tetrahedron Lett.</i> 2016 ,	
_	57, 4763-4766.	
5.	Pyrimidine and Pyrazole Linked Azetidin-2-ones: Entry to	
	Novel Class of β -Lactam Heterocycles J. Heterocycl. Chem.	
6.	2017 , 54, 2297-2306. Diastereoselective synthesis of novel 3-aryloxy/alkoxy-4-	
0.	benzothiazolylpyrazolyl- β -lactams: Potential synthons for	
	novel aminoacids/nanocopolymers. Synth. Commun. 2017,	
	47, 1955-1962.	
7.	An efficient synthesis of novel benzothiazolylpyrazole	
	substituted imines: Versatile synthons for heterocycles.	
	Heterocycl. Lett. 2017 , 7, 629-634.	
8.	Facile synthesis of novel benzothiazolylpyrazolyl anchored 3-	
	thio/seleno/chloro- β -lactams: Synthetic intermediates for	
	novel 3-sulfenyl/sulfonyl, C-3 functionalized monocyclic and	
	spirocyclic β-lactams. <i>Synth. Commun.</i> 2018 , 48, 2675-2682.	
9.	Facile and efficient synthesis of chiral sulfoxide esters:	
	Versatile tool in asymmetric synthesis. Synth. Commun.	
10	2019 , 49(2), 279-285.	
10.	A Comprehensive Review on C-3 Functionalization of β -Lactams. <i>Curr. Org. Syn.</i> 2019 , <i>16(1)</i> , 3-16.	
	Lactanis. Curr. Org. Syn. 2013 , 10(1), 5-10.	

- 11. A Rapid and Efficient Protocol for Chiral Sulfoxide Amides: Versatile Asymmetric Synthon. J. Appl. Chem. **2019**, 8(3), 1223-1230.
- Stereoselective synthesis and in-silico evaluation of C4benzimidazolyloxyphenyl substituted trans-β-lactam derivatives as promising novel PPARy activators. Synth. Commun. 2021, 51(24), 3758-3767.
- A decade update on synthesis of bicyclic β-lactams and their transformation into synthetically/biologically relevant carbocyclic and heterocyclic moieties. *Tetrahedron* 2024, 167, 134230.

Book Chapters

- Synthesis of diverse β-lactams: Role of appended hetero moiety on its activity in *Beta-Lactams: Novel Synthetic Pathways and Applications*; Banik, B. Ed.; Springer, Germany, **2017**; pp 1-40. Doi: 10.1007/978-3-319-55621-5
 - Role of transition metal reagents in β-lactam synthesis: New paradigms in *Beta-Lactams: Novel Synthetic Pathways and Applications*; Banik, B. Ed.; Springer, Germany, **2017**; pp 41-72. Doi: 10.1007/978-3-319-55621-5
 - Recent trends in nitrone-olefin [3+2] cycloaddition reaction: Synthetic and biological potentials in *Organic and Medicinal Chemistry;* Banik, B. Ed.; Nova Science Publisher, USA, **2019**; Vol. 1; pp 1-52.
 - 4. Recent advances in copper-catalyzed heterocyclic synthesis. In Advances in Organic Synthesis; Atta-ur-Rahman, Ed.; Bentham Science Publishers Pte. Ltd, Singapore, 2022, 16, pp 1-62. (ISBN 978-981-5039-26-9 online) (doi: 10.2174/97898150392691221601)

Orientation/Refresher Course/FDP

- Attended Gurudakshata-126th Faculty Induction Program from 22-12-2020 to 18-01-2021 at UGC-MMTTC, Panjab University, Chandigarh.
- 2. Attended Interdisciplinary Refresher Course in Indian Studies from 15-10-2024 to 28-10-24 at UGC-MMTTC, Panjab University, Chandigarh.