



**ISF COLLEGE OF PHARMACY**  
(An Autonomous College U/s UGC Act 1956)



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# DEPARTMENT OF PHARMACEUTICAL CHEMISTRY



Legacy of Excellence in Pharmaceutical Education & Research



# DEPARTMENTAL PROFILE

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## DEPARTMENT OF PHARMACEUTICAL CHEMISTRY



**ISF COLLEGE OF PHARMACY (An Autonomous College)**

**NAAC Accredited "A" Grade College**

**MOGA-142001; PUNJAB, INDIA**

# VISION

## PHARMACEUTICAL CHEMISTRY

“The mission of the department is to advance the scientific knowledge and skills of the graduate students by providing them with quality education, research and service opportunities. With a high standard for excellence in all these areas the department will produce students who are knowledgeable in the field with proper skills and expertise, can think critically and able to work at chemistry-biology interface.”

# \* *LEGACY OF DEPARTMENT*

❖ Established in the Year..  
2006 (Pharm. Chemistry)





# FACULTY MEMBERS

Name	Designation
Dr. Vikram Deep Monga	Professor & Head (Pharm. Chemistry)
Dr. Pooja Chawla	Professor
Dr. G S. Sarma	Professor
Dr. Bhupinder Kumar	Assoc. Professor
Dr. Sant Kumar Verma	Assoc. Professor
Dr. Vivek Asati	Assoc. Professor
Dr. Preeti	Assoc. Professor
Mr. Rohit Bhatia	Assistant Professor
Ms. Amarjit Kaur	Assistant Professor
Ms. Shelly Pathania	Assistant Professor
Mr. Gurpreet Singh	Assistant Professor
Ms. Simranpreet Kaur	Assistant Professor

# FACULTY MEMBERS



**Dr. Vikram Deep Monga**  
Professor & Head



**Dr. Pooja Chawla**  
Professor



**Dr. G S Sarma**  
Professor



**Dr. Preeti**  
Associate Professor



**Dr. Bhupinder Kumar**  
Associate Professor



**Dr. Sant K. Verma**  
Associate Professor



**Dr. Vivek Asati**  
Associate Professor



**Mr. Rohit Bhatia**  
Assistant Professor



**Ms. Shelly Pathania**  
Assistant Professor



**Ms. Amarjit Kaur**  
Assistant Professor



**Mr. Gurpreet Singh**  
Assistant Professor



**Ms. Simranpreet,**  
Assistant Professor

## **MAJOR AREAS OF RESEARCH**



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graph LR; A[MAJOR AREAS OF RESEARCH] --> B[Heterocyclic synthesis/Catalysis]; A --> C[Peptide synthesis]; A --> D[Molecular modelling]; A --> E[Natural product chemistry]; A --> F[Anticancer]; A --> G[Antidiabetic]; A --> H[Anti-obesity]; A --> I[Neuroprotective agents (Alzheimer, Anticonvulsant)]; A --> J[Antimicrobial (Antibacterial, antimalarial and antitubercular)];
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○ **Heterocyclic synthesis/Catalysis**

○ **Peptide synthesis**

○ **Molecular modelling**

○ **Natural product chemistry**

○ **Anticancer**

○ **Antidiabetic**

○ **Anti-obesity**

○ **Neuroprotective agents**

**(Alzheimer, Anticonvulsant)**

○ **Antimicrobial**

**(Antibacterial, antimalarial and  
antitubercular)**

# ISF College of Pharmacy

## Department of Pharmaceutical Chemistry

### Total no of publications year wise

2016 - 18  
2017 - 22  
2018 - 20  
2019 - 20  
2020 - 36

### Total no of citations year wise

2016 - 313  
2017 - 378  
2018 - 351  
2019 - 360  
2020 - 409

*h*-index - 36

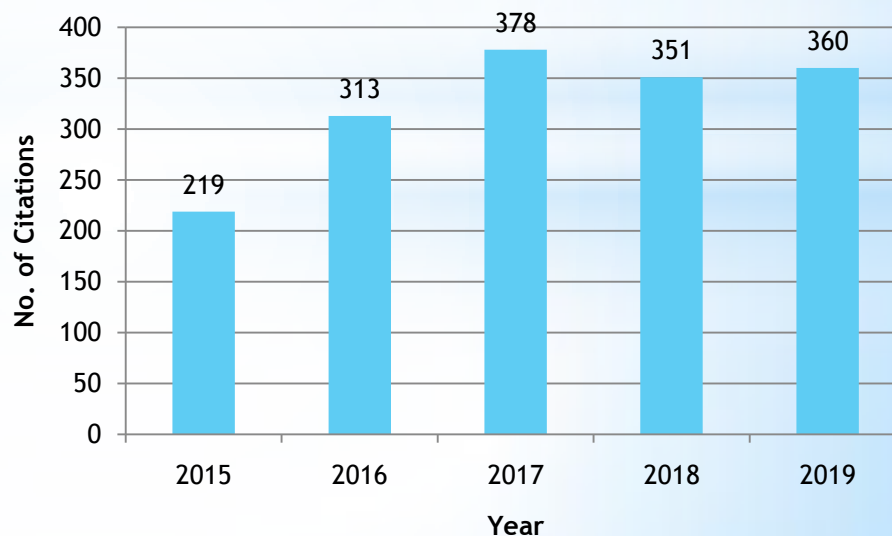
Total no of publications - 116

Total no of citations -1621

Research -73.7%

Review -24.2%

Book chapter -2.1%



### Top journals:

Journal of Applied Research, Bioorganic Chemistry, European Journal of Medicinal Chemistry, Mini reviews in Medicinal Chemistry



# ISF COLLEGE OF PHARMACY, MOGA

## (Pharmaceutical Chemistry and Analysis)

### Publication Details (2015-2020)

Year	Number of Paper Published in Peer- reviewed Journal	Total Impact factor	Average impact factor	Highest Impact factor	Name of Journal of Highest Impact factor
2020	36	108.75	3.11	5.57	European Journal of Medicinal Chemistry
2019	17	53.77	3.16	5.01	Journal of Applied Research
2018	9	16.21	1.80	4.82	European Journal of Medicinal Chemistry
2017	11	36.22	3.29	4.82	European Journal of Medicinal Chemistry
2016	15	41.70	2.78	4.84	Drug delivery
2015	11	30.36	2.76	3.85	Current Medicinal Chemistry

# BOOKS PUBLISHED BY FACULTY MEMBERS

Title of Book	Written by	Publisher	Year of Publication / ISBN
Pharmaceutical Organic Chemistry	Dr. Sharma S.C., Dr. Kumar R.	Vishal Publication Co. Jalandhar	2011/978-81-921432-9-3
New[1,4] Dihydropyridines for P-gp Mediated Efflux of Anticancer Drug	Bariwal J., Kaur G., Kaur R.	Lambert Academic Publishing, Germany	2014/ 978-3659636950
Chemometric Tools for Simultaneous Estimation in Pharmaceuticals Multivariate Techniques for Simultaneous Estimation	Rawal R.K., Kumar N., Sharma C.	Lambert Academic Publishing, Saarbrucken, Germany	2014/ 978-3-659-64694-2
Impurity Profiling of a New Drug Entity: Experimental Insights	Mishra N., Baldi A., Rawal R.	Lambert Academic Publishing, Saarbrucken, Germany	2014/ 978-3-8465-8012-7
Diabetes and its complications	Amit Sharma, Pooja Sharma, Durgadas Anghore	Lambert Academic Publishing, Germany	2017 (978-620-2-06720-1)
Phytochemical evaluation of seed powder of Eugenia Jambolana	Amarjit Kaur, Vikrant Abott, Gulsan Bansal	Lambert Academic Publishing, Germany	2017 (978-3-330-33121-1)
Treatment and management of poisoning	Sharma A, Anghore D, Rathore MS	Lambert Academic Publishing, Saarbrucken, Germany	2018 (978-613-5-81921-2)

# BOOKS CHAPTERS PUBLISHED BY FACULTY MEMBERS

S.No	Name of the Faculty	Title of the book/chapters published	National / international	Year of publication	ISBN/ISSN number	Affiliating Institute at the time of publication	Name of the publisher
1	Vikramdeep Monga, Satyendra K. Rajput,	Animal Screening Basics of Drug Discovery Vol I/Investigation Tools Principles and Applications: General Considerations	National	2018	978-81-93630-91-4	ISF College of Pharmacy, Moga	Paging Publisher, New Delhi
2	Prashant Dhiman, Vikramdeep Monga	Animal Screening Basics of Drug Discovery Vol II/Therapeutic peptides as potential central nervous system active agents	National	2019	979-87-93630-97-2	ISF College of Pharmacy, Moga	Paging Publisher, New Delhi
3	Ravindra K Rawal	New Perspectives of Genomics, Proteomics and Bioinformatics in Biotechnology. In Biotechnology in Medicine and Herbal Drug Development, Bansal P. (ed.)	National	2015		ISF College of Pharmacy, Moga	Basera Verlag, Munchen, Germany, pp.123-148
4	M.K. Gupta, Swati Gupta, Ravinder. K. Bhatia	Impact of Artificial Neural Networks in QSAR and Computational Modelling. In Artificial Neural Network for Drug Design, Dalia and Biswas	National	2013	978-0-12-801559-9	ISF College of Pharmacy, Moga	Elseivier Publishing House, pp. 153-175

# GOVERNMENT FUNDED PROJECT BY FACULTY MEMBERS

S.No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator	Department of Recipients	Year of Sanction	Amount / Fund received Rs	Duration of the project
1	Design Synthesis of Novel [1,4] Benzodiazepines Fused with 2- aminoimidazoles and evaluation for their anticancer and antibiofilm activity	Dr. Jitender Bariwal	Pharmaceutical Chemistry	2012	1590000	3 Years
2	Homology modelling and docking study on human NK-I receptor: A target for cancer	Dr. Manish K Gupta	Pharmaceutical Chemistry	2012	1635000	3 Years
3	Modernization of pharmaceutical chemistry PG lab to practice to practice green chemistry techniques by application of microwave techniques	Dr. T.R. Bhardwaj	Pharmaceutical Chemistry	2013	1750000	3 Years



# PATENTS GRANTED TO FACULTY MEMBERS

Sr No.	Patent no.	Inventor
<b>CNS effective thyrotropin-releasing hormone analogs</b>	GRANTED, PATENT No: 270454 (2015)	Vikramdeep Monga, Navneet kaur, S.S. Sharma, Rahul Jain
<b>A process for the synthesis of CNS active thyrotropin-releasing hormone analogs</b>	GRANTED, PATENT No: 269386 (2015)	Vikramdeep Monga, Navneet kaur, Rahul Jain
<b>Novel steroidal ester of 17-oximino-5-andersten-3ol.</b>	W/O 2009/027994 Pub. In 2013.	T.R. Bhardwaj
<b>Novel terpenoidal based analogue of vasicine of formulation I with multiple therapeutic activities.</b>	831/DEL/2014, dated 13/06/2014	Nepali Kunal, Goyal Rohit, Dhar K.L., Bedi PMS
<b>Nitric oxide releasing derivative of Paracetamol.</b>	U.S. Patent Pub.No.-WO/2009/024998	T.R Bhardwaj
<b>Preparation and evaluation of novel targeted drug delivery of metronidazole to the colon</b>	2016/DEL/2015	R.K. Narang, Sukhbeer Kaur, T.R. Bhardwaj

## **Awards, Honors and Recognitions**

- ✓ Dr. Vikram Deep Monga and Pooja Chawla approved as “Certified trainer of the trainer” for the qualification pack Quality control chemist (Trainer ID 4093) by National Skill Development Cooperation, India.
- ✓ Dr. Vikram Deep Monga profile as been selected for Best Researcher Award 2020 by VDGGOOD Professional Association, India.
- ✓ Mr. Rohit Bhatia, Pharma Rising Star Award in National Conference “Pharma Vision 2K25” Organized by Sri Balaji Book Distributors, New Delhi.
- ✓ Mr. Rohit Bhatia honored as Speaker in International Webinar on Pharmacy and Pharma Networks, USA.
- ✓ Mr. Gagandeep awarded 1<sup>st</sup> Prize in Poster Presentation in National Conference held at ISF College of Pharmacy, Moga.
- ✓ Mr. Rohitr Bhatia awarded 1<sup>st</sup> Prize for Verbal Presentation in HPTU sponsored National Conference held at Himachal Institute of Pharmaceutical Sciences and Research, Nadoun, H.P.

# PHARMACEUTICAL CHEMISTRY RESEARCH LABORATORY





# LABORATORY OF ORGANIC SYNTHESIS







## Journal-club



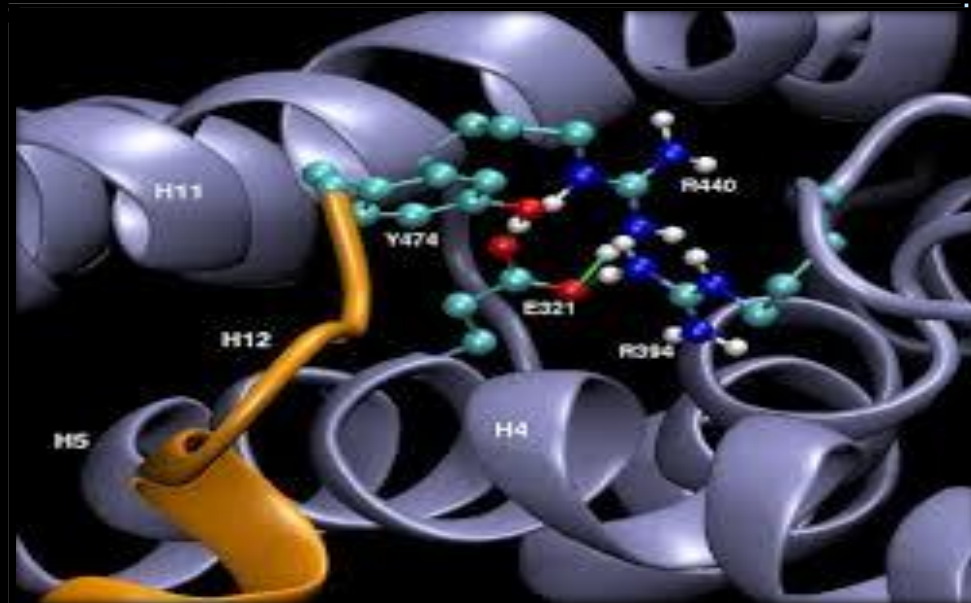
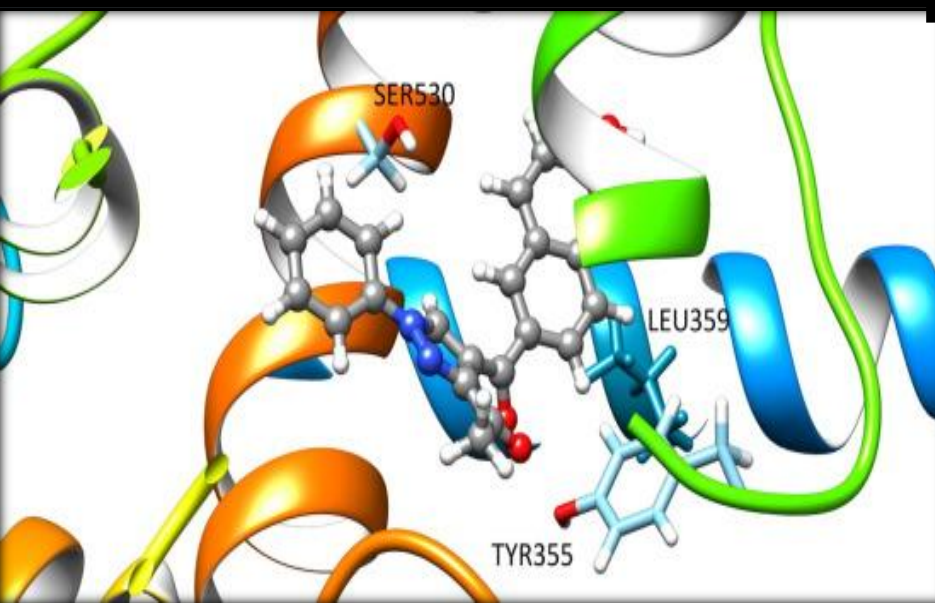
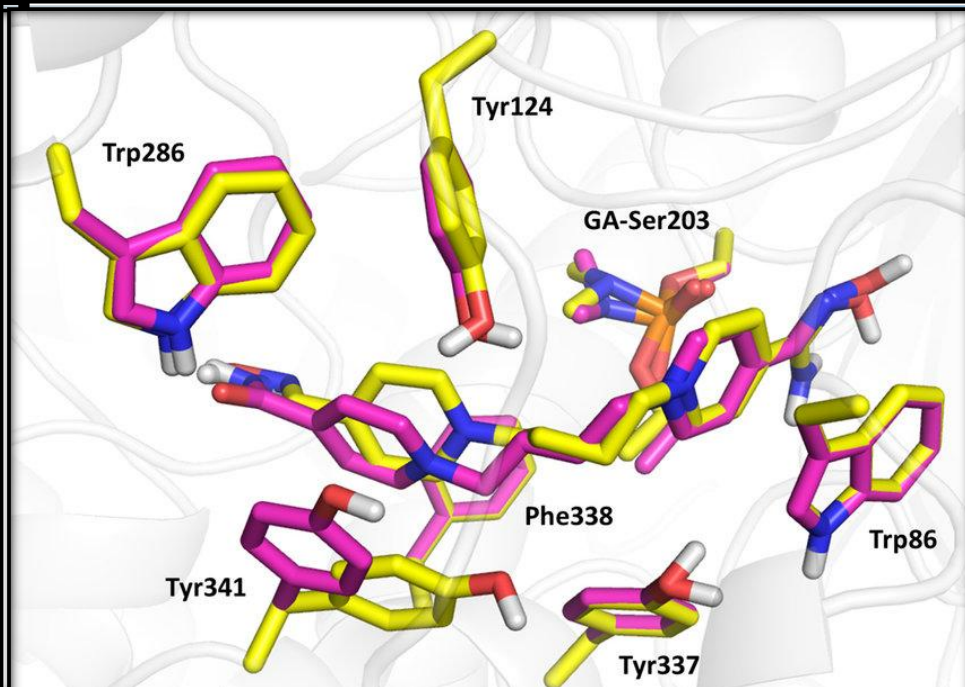
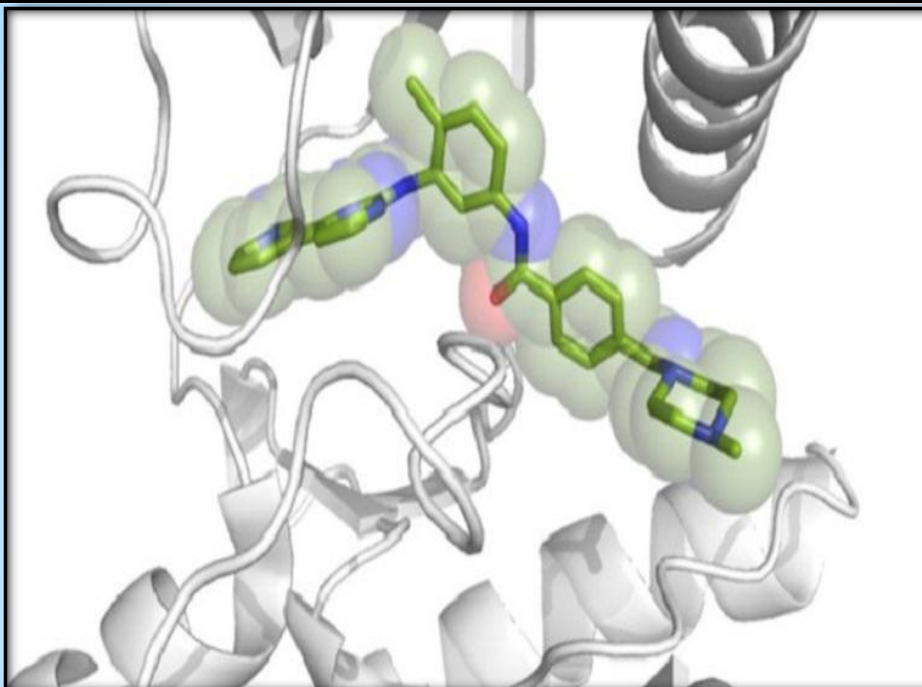
# Research Activities in the Department







# CADD LAB



# Student Placement Record

- ✓ Well Placement Record
- ✓ Industry, Academia, Research labs, Eminent Institutions
- ✓ Offered good salary package
- ✓ Salary package varies from 2.4-4.0 lacs per annum
- ✓ Higher Studies (National CSIR labs, Foreign Universities)



# Student Placement Record

No.	Name	Contact	Working status
1.	Archana	2018-19	Mecleod Pharmaceutical Ltd. Baddi, Trainee (QC)
2.	Nidhi Arora	2018-19	CSIR-IIIM, Project Assistant, III M Jammu,
3.	Prashant Dhiman	2018-19	Akem International, Haridwar
4.	Bhupender	2019-2020	Guru Kashi University, Talwandi-Sabo
5.	Devendra Kumar	2019-2020	United Biotech, Baddi
6.	Gourav Grover	2019-2020	United Biotech, Baddi
7.	Rajarshi Nath	2019-2020	Bharat Technology, Uluberia, Howrah, West Bengal, India
8.	Sandeep	2019-2020	United Biotech, Baddi
9.	Shalini Jaiswal	2019-2020	MRSPTU, Bathinda
10.	Shubham Kumar	2019-2020	PCTE, Ludhiana

# **\*For More Detail About Department Contact**

**Dr. Vikram Deep Monga**

Professor & Head

Member-Research Advisory Council-ISFCP

Member-Academic Council, ISFCP (Autonomous College)

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**[vikramdeepmonga@gmail](mailto:vikramdeepmonga@gmail.com)**





# \*For Admission Contact Admission Cell

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**Thank You**