

## SHUBHAM KUMAR

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### BRIEF OVERVIEW/CAREER OBJECTIVE

A **Medicinal Chemist** in the field of medicinal research having good academic and practical skills. Sound knowledge of handling software like Virtual screening, Discovery Studio, Pymol, AutoDock Vina, ChemOffice and *in silico* evaluation using different software. Experience in handling the different synthetic reactions (Vilsmeier Haack, Knoevenagel Condensation, Schiff Bases) and characterization of compounds using Mass, IR and Nuclear Magnetic Resonance (NMR). My goal is to be a researcher in medicinal chemistry field and design drugs by understanding the chemistry and pharmacology of the targets and their related mechanisms. My career objective is to obtain a challenging and responsible position in the field of Pharmaceutical Education/ Research that fosters creativity and innovation through confidence, flexibility and freedom to work for achieving the organizational goals coupled with enhancing my knowledge and professional skills.

### EDUCATION

Sr. No	School/Colleges	Year
1.	<b>Ph.D - Medicinal Chemistry</b> (Part Time)   Lovely Professional University, Jalandhar	2020-Pursuing
2.	<b>M.Pharm. - Pharmaceutical Chemistry</b>   CGPA: 8.75 Indo Soviet Friendship (ISF) College of Pharmacy, Moga	2018-2020
3.	<b>B.Pharm.</b>   Percentage: 72% Lovely Professional University, Jalandhar	2014-2018
4.	<b>12<sup>th</sup>   CBSE</b>   Percentage: 65% Nankana Sahib Public School, Ludhiana	2014

### API Score

Google Scholar Citations: 91

h-index: 4

i10 index: 3

Researchgate score: 13.66

## PROJECTS

Sr. No.	Project Title	Time Period
1.	Synthesis, Characterization and Evaluation of some novel non-steroidal molecules for the treatment of Prostate cancer	May 2021-Going on
2.	Design, Synthesis, Characterization and Biological Evaluation of Some New Substituted 2,4-Thiazolidinediones as Promising Anti-Diabetic Agents	Jul. 2019-Aug 2020
3.	In silico design of Sodium-Glucose Co-Transporter 2 (SGLT2) inhibitors	Aug. 2017-Nov. 2017

## PUBLICATIONS

- Arora N, Dhiman P, **Kumar S**, Singh G, Monga V. Recent Advances in Synthesis and Medicinal Chemistry of Benzodiazepines. *Bioorg Chem.* 2020; 97:103668. doi:10.1016/j.bioorg.2020.103668. (IF = 5.275)
- Kumar S**, Khatik GL, Mittal A. "Recent Developments in Sodium-Glucose Co-Transporter 2 (SGLT2) Inhibitors as a Valuable Tool in the Treatment of Type 2 Diabetes Mellitus", *Mini Rev. in Med. Chem.* 2020;20(3):170-182. doi:https://doi.org/10.2174/1389557. (IF = 3.862)
- Kumar S**, Khatik GL, Mittal A. In-silico Molecular Docking Study to Search New SGLT2 Inhibitor based on Dioxabicyclo[3.2.1] octane Scaffold. *Curr Comput Aided Drug Des.* 2020;16(2):145-154.. doi:10.2174/1573409914666181019165821. (IF = 1.606)
- Kumar S**, Rulhania S, Jaswal, S, Monga, V. 2020. Recent advances in the medicinal chemistry of carbonic anhydrase inhibitors. *Eur. J. Med. Chem.* p.112923. (IF = 6.51)
- Kumar S**, Mittal A, Babu D. Herbal medicines for diabetes management and its secondary complications. *Curr. Diabetes Rev.* 2020 Nov 3. (IF = 1.95)
- Jaswal S, Nehra B, **Kumar S**, Monga V. Recent advancements in the medicinal chemistry of bacterial type II topoisomerase inhibitors. *Bioorg. Chem.* 2020 Sep 3:104266. (IF = 5.275)
- Sharma S, Mittal A, **Kumar S**. Structural Perspectives and Advancement of SGLT2 Inhibitors for the Treatment of Type 2 Diabetes. *Current Diabetes Reviews.* 2021 Sep 17. (IF = 1.95)
- Kumar S**, Mittal A, Mittal A. A review upon medicinal perspective and designing rationale of DPP-4 inhibitors. *Bioorg. Med. Chem.*;46:116354. (IF = 3.641)
- Rulhania S, **Kumar S**, Nehra B, Gupta GD, Monga V. An insight into the medicinal perspective of synthetic analogs of imidazole. *J. Mol. Str.* 2021 May;1232:129982. (IF = 3.196)
- Yadav A, **Kumar S**, Monga V. Progress in the Development of Potential Therapeutics and Vaccines against COVID-19 Pandemic, *Acta Scientific Pharmaceutical Sciences.* 2021, 5 (7), 45-62. (IF = 1.020).
- Kumar S**, Arora P, Wadhwa P, Kaur P. A Rationalized Approach to Design and Discover Novel Non-steroidal Derivatives through Computational Aid for the Treatment of Prostate Cancer. *Curr Comput Aided Drug Des.* 2023 Jun 26. doi:

10.2174/1573409919666230626113346. Epub ahead of print. PMID: 37365786.

12. Handa Jasmeen, Kumari Baby, Negi Samir, Arora Pinky and **Kumar Shubham\***, Utilization of computational tools for discovery of reticuline based derivatives as AChES inhibitors to treat Alzheimer's disease, Letters in Drug Design & Discovery 2023; 20( ) .  
<https://dx.doi.org/10.2174/1570180820666230713112757>

## SEMINARS/CONFERENCES

Sr. No.	Title of Seminar/Conferences	Duration
1.	<b>“10<sup>th</sup> National Symposium for Young Researchers on Drug Discovery to Delivery 2022”</b> Organized by NIPER-Guwahati & RSC (UK)-RSC-LSD	March, 4 <sup>th</sup> , 2022
2.	2-Day scientific sessions at the International Conference on <b>“Recent Trends in Chemical Biology and Drug Discovery,”</b> organized by AIP, AUMP, Gwalior	September 9th, 2021
3.	One month workshop on <b>“Introduction to Computational Drug Design”</b> organized by Schrodinger and Pharmacy Council of India.	Sep. 21, 2020- Oct. 23, 2020
4.	5-Day Faculty Development Program on <b>“Application of Recent Green Chemistry Techniques for Synthesis and Analysis of Pharmaceuticals”</b> at ISF College of Pharmacy, Moga	Dec. 16, 2019- Dec. 20, 2019
5.	One Day International Workshop on <b>“Lung Injury: Challenges for Therapy &amp; Emerging Possibilities”</b> at ISF College of Pharmacy, Moga	Nov. 9, 2019
6.	54 <sup>th</sup> Annual Conference of The Indian Hospital Pharmacists Association <b>“Theme: Safe &amp; Effective Medicines For All”</b> at ISF College of Pharmacy, Moga	Sep. 13, 2019- Sep. 14, 2019
7.	<b>The 106<sup>th</sup> Indian Science Congress”</b> at Lovely Professional University, Jalandhar	Jan. 3, 2019- Jan. 7, 2019
8.	One Day National Conference on <b>“Advanced Bioanalytical Techniques, Artificial Intelligence and Health Sciences”</b> at ISF College of Pharmacy, Moga	Dec. 24, 2018
9.	70 <sup>th</sup> Indian Pharmaceutical Congress, <b>“Theme: Pharma Vision 2030: Indian Pharma Industry- A Global Leader”</b> at Amity University, Noida	Dec. 21, 2018- Dec. 23, 2018
10.	One Day workshop on <b>“Funding Opportunities for Research, Innovation &amp; Career Development”</b> at ISF College of Pharmacy, Moga	Jul. 22, 2018
11.	<b>“Graduation Project Expo”</b> at Lovely Professional University, Jalandhar	Apr. 25, 2018– Apr. 27, 2018
12.	Phytocon: One Day International Conference on <b>“Commercialization of Medicinal Plant Products: Lab Techniques to Trades”</b> at Lovely Professional University, Jalandhar	Feb. 14, 2018
13.	International Conference of Pharmacy <b>“Theme: Pharmacists: Catalysts for Change”</b> at Lovely Professional University, Jalandhar	Apr. 7, 2017 – Apr. 8, 2017
14.	Participated in Catastrophe Control Competetion Under <b>“Gyanmanthan: ”</b>	Oct. 18, 2016 -

	<b>Technical Events”</b> at Lovely Professional University, Jalandhar	Oct. 22, 2016
15.	Participated in Healthabhigya Competetion Under “ <b>Gyanmanthan: Technical Events</b> ” at Lovely Professional University, Jalandhar	Oct. 18, 2016 - Oct. 22, 2016
16.	LPUNASYACON-2016, National Conference on “ <b>Amalgamation of Recent Pharmaceuticals Developments in Ayurveda</b> ” at Lovely Professional University, Jalandhar	Apr. 22, 2016 – Apr. 23, 2016
17.	National Seminar cum Workshop on “ <b>Pharmacovigilance</b> ” at Lovely Professional University, Jalandhar	Mar. 26, 2016

## AWARDS

1. 3<sup>rd</sup> prize in oral presentation in scientific sessions held on September 9th, 2021 at the International Conference on "**Recent Trends in Chemical Biology and Drug Discovery**," organized by AIP, AUMP, Gwalior
2. 1<sup>st</sup> prize in poster presentation at 54<sup>th</sup> annual conference of “**The Indian Hospital Pharmacists Association**”. Theme: “**Safe and effective medicines for all**” at ISF college of Pharmacy, Moga-2019.
3. 3<sup>rd</sup> prize in Kahoot online quiz at one day national conference entitled “**Advanced Bioanalytical Techniques, Artificial Intelligence and Health Sciences**” at ISF College of Pharmacy, Moga-2018.

## INTERNSHIP

### Halewood Pvt. Ltd. Ahmedabad, Gujrat

Learnt about the different formulation like solid dosage form, powder dosage form. Different techniques like granulation, mixing, drying. Worked on different test to check the quality of formulations including weight variation, mechanical strength of tablets, disintegration and dissolution test.

Jun. 5, 2017- Jul. 5, 2017

## CO-CURRICULAR ACTIVITIES

- Delivered an oral presentation entitled “***In silico* Molecular Docking Study to Search New SGLT2 Inhibitor based on Dioxabicyclo[3.2.1] octane Scaffold**” at **Recent Trends in Chemical Biology and Drug Discovery**," organized by AIP, AUMP, Gwalior
- Presented a e-poster entitled “***In silico* Molecular Docking Study to Search New SGLT2 Inhibitor based on Dioxabicyclo[3.2.1] octane Scaffold**” at The 54<sup>th</sup> Indian Hospital Pharmacists Association, Theme: Safe & Effective Medicines For All -2019.
- Delivered an oral presentation entitle “**Recent Developments in Treatment of Type 2 Diabetes**” at The Indian Science Congress-2019.
- Presented a poster entitled “**SGLT2 Inhibitors: A New Hope for Type 2 Diabetic**

**Patients”** at Pharmacists: Catalysts for Change-2017.

- Presented a poster entitled “**Caesalpinia Bonducella: An Overview**” at LPUNASYACON-2016.

### Key Responsibilities in Organization

- Class In charge
- Cricket Club Convener
- Research Cell Member
- Examination Department

### PERSONAL INTERESTS/HOBBIES

- Artificial Intelligent, Space Exploration, Archaeology Exploration, Sports

### PERSONAL DETAILS

**Gender:** Male

**Date of Birth** 19 Jan. 1996

**Marital Status:** Unmarried

**Known Languages:** English, Hindi, Punjabi

**Current Address:** # 1906/135, Street No. 2B,  
Basant Nagar, New Shimlapuri, Ludhiana,  
Punjab, India – 141003

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### REFERENCES

#### **Dr. Dinesh Babu**

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Research  
University of Alberta,  
Edmonton, Alberta, Canada  
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#### **Dr. Vikram Deep Monga**

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