


## Curriculum Vitae

<b>Full Name:</b>	<b>DR. GAURAV JOSHI</b>			
<b>Designation</b>	<b>Assistant Professor</b>			
<b>Department:</b>	Department of Pharmaceutical Sciences			
<b>Campus:</b>	Srinagar/Chauras			
<b>Communication Address</b>	Department of Pharmaceutical Sciences HNB Garhwal University (A Central University), Chauras Campus, P.O. Kilkilleshwar, Via Kritinagar Distt. Tehri Garhwal, Pin-249161, Uttarakhand			
<b>Mobile:</b>	+91-7888660326; +91-7696115754			
<b>Email</b>	garvpharma29@gmail.com; garvjoshi@hnbgu.ac.in			
<b>Educational Qualification:</b>	M. Pharm., Ph.D. (Pharmaceutical Chemistry)			
<b>Teaching Experience</b>	3.5 Years	<b>Research Experience</b>	3.5 Years (Post-PhD)	
<b>Research Interest and Fields of Specialization</b>				
Drug Design and Discovery, Synthetic Medicinal and Pharmaceutical Chemistry, Cancer Biology: MTT Assay, Enzymatic Assays, 3D- cell culture, Western Blotting, Agarose Gel (DNA catenation and Relaxation Assays), RT-PCR, plasmid isolation, Flow Cytometry based assay etc., Spectroscopic Analysis, Molecular Modelling, Enzymatic Assay, Natural Product isolation and Characterization. Scientific Manuscripts preparation and editing, Scientific Posters, Reports and Presentations; Synthesis of novel small heterocyclic molecules as mono/dual/multi-inhibitors of EGFR, Topoisomerases, HDAC, Tubulin in cancer, Xanthine Oxidase inhibitors				
<b>Academic background</b>				
<b>PhD, Medicinal Chemistry</b> (Aug 2015- Aug 2019) <b>Central University of Punjab</b> Bathinda, India <b>Thesis Title:</b> Design and synthesis of small molecules as inhibitors of Topoisomerases and Histone Deacetylases, as anticancer agents <b>Supervisor:</b> Dr. Raj Kumar, Associate Professor, Department of Pharmaceutical Sciences and Natural Products, Central University of Punjab, Bathinda				
<b>M. Pharm, Medicinal Chemistry</b> (Aug 2012- July2014) <b>Central University of Punjab</b> Bathinda, India <b>Thesis Title:</b> Design and synthesis of pyrazolo[1,5-c]quinazoline based anticancer agents. <b>Supervisor:</b> Dr. Raj Kumar, Professor, Department of Pharmaceutical Sciences and Natural Products, Central University of Punjab, Bathinda				
<b>Bachelor of Pharmacy (B. Pharmacy)</b> (June 2008-May 2012) <b>H.N.B Garhwal (A Central) University, Uttarakhand</b> Srinagar, Garhwal India				
<b>Research Supervision</b>				
NA				

## Projects

1. Major project entitled "Synthesis and biological evaluation of new dihydroisoxazole based selective Cyclooxygenase-2 (COX-2) inhibitors with Hydrogen Sulphide (H<sub>2</sub>S) releasing assets for mitigating the pain and associated inflammation" Department of Biotechnology, New Delhi. **(Approved for 29 lakhs)**

## Fellowships

1. **Graduate Pharmacy Aptitude Test (GPAT)** fellowship during M. Pharm Program (2012-14)
2. **JRF in UGC Major Project** Entitled "Design, Synthesis and Biological Screening of Novel Heterocycles as Inhibitors of Dual Tyrosine Kinase(s) and Histone Deacetylase as Potential Anticancer Agents" (17 November 2014 – March 2017)
3. **JRF in International funded scholarship** from Bristol Meyer Squibb, USA (August 2017 to present)
4. **CSIR-SRF 2018** from Council of Scientific & Industrial Research (CSIR), India.
5. **ICMR-SRF 2018** from Indian Council of Medical Research (ICMR), India.
6. **ICMR-RA 2020** from Indian Council of Medical Research (ICMR), India (Not availed).

## Honors and awards

- **Sun Pharma Research Scholar Award** (Pharmaceutical Sciences) 2017-18. A prize of 50,000 INR and citation was provided. The designation of Sun Pharma Scholar was also given (First Prize).
- Received **Travel Grant from SERB-DST and CSIR, India**, to attend international symposium on Medicinal Chemistry "EFMC-ISMIC 2018 XXV EFMC" to be held at Ljubljana, Slovenia (Europe) from 1-5 September 2018.
- **Distinguished Faculty Award 2022** for excellence in teaching and research by Uttarakhand State Council for Science & Technology (UCOST), Uttarakhand, India.
- **Research Excellence Award 2019**, by Institute of Scholars, Bengaluru, India.
- Selected for **CSIR-SRF 2018** in Pharmaceutical Sciences (Medic Category).
- Selected for **ICMR-SRF 2018** in Biomedical Sciences Category.
- **ICMR-RA 2020** from Indian Council of Medical Research (ICMR), India (*Not availed*).
- Presented an oral talk (**Awarded with First Prize**) entitled "Design, Synthesis and in vitro Screening of Novel Heterocycles as Potential Anticancer Agents". at 2nd Annual Association of Pharmaceutical Teachers of India, Punjab State Board organized by Government Polytechnic College, Patiala, March 18-19, 2016.
- Poster Presentation (**2nd Prize**), on "Recent Trends in Molecular Medicine" One-day Symposium, organized by Central University of Punjab, 2014.
- Invited to attend Festival of Innovation and Entrepreneurship (Fine 2018) - at Rastryapati House, New Delhi
- **National Essay Competition** (2nd Prize), Organized by Prachi Educational Society, New Delhi-2013 (Rs. 8000 cash and a citation).
- Event of carom doubles (**Gold Medal**), during second annual sports and Athletic Meet-2014, organized by Central University of Punjab.
- **Registered Pharmacist** from Uttarakhand State Pharmacy Council
- Event of Table Tennis Mix doubles (**Silver Medal**), during second annual sports and Athletic Meet-2014, organized by Central University of Punjab.
- Event of Table Tennis doubles (**Bronze Medal**), during second annual sports and Athletic Meet-2014, organized by Central University of Punjab.
- Photography Competition, open level (**1st Prize**) during 5th foundation day celebrations-2014 organized by Central University of Punjab.

- Quiz Competition (**2nd Prize**) during 5th foundation day celebrations-2014 organized by Central University of Punjab.
- Cricket Championship (**Runners up; Team event**), during Third annual sports and Athletic Meet-2015, organized by Central University of Punjab.
- Cricket Championship (**Winners; Team event**), during Third annual sports and Athletic Meet-2015, organized by Central University of Punjab.

### Patents

1. Title of the invention: "Quinazoline based fluorophores and their applications in bioimaging and tagging of drug molecules". Raj Kumar, Sandeep Singh, **Gaurav Joshi**, and Praveen Sharma. Indian Patent, Application No. 201811028230, dated 27/07/2018 (**Published**).
2. Title of the invention "An organoleptic sweetener for prescription medicines". Application No.202211042893 A, INDIA, Priyank Purohit, **Gaurav Joshi**, Priyanka Bhatt, Date of filing of Application :27/07/2022, Publication Date: 05/08/2022. (**Published**).
3. Title of the invention "A novel device for application of a topical medicine" Priyanka Bhatt, Priyank Purohit, **Gaurav Joshi**, Application No.202211042314 A Date of filing of Application :23/07/2022 Publication Date: 29/07/2022. (**Published**).
4. Title of the invention "A method to access dihydroisooxazole using VEC and nitrile oxide". **Gaurav Joshi**, Priyank Purohit, Ashish Ranjan Dwivedi, Arshad J Ansari. Application No.202211039712 A. Date of filing of Application :11/07/2022 Publication Date: 22/07/2022. (**Published**).
5. Title of the invention "Novel dihydroisooxazole derivatives and their pharmaceutical applications thereof." **Gaurav Joshi**, Priyank Purohit, Ashish Ranjan Dwivedi, Arshad J Ansari. Application No.202211022903 A. Date of filing of Application :19/04/2022. (**Filed**).
6. Title of the invention "An incubation apparatus for air/soil microbial and biomedical studies thereof" Shukanya Ghosh, **Gaurav Joshi**, Jitendra Kumar. Application No. 202211058515 A. Date of filing of Application :21/10/2022. (**Published**).
7. Title of the invention "A teabag squeezing apparatus and methods thereof" Dinesh Puri, **Gaurav Joshi**, Prashant Gahtori, Arun Kumar, Tarun Singh. Application No. 202211031288 A. Date of filing of Application :10/06/2022. (**Published**).

### Publications (As of December 31, 2022)

#### Research Articles:

1. **Joshi, G.**, Sharma, M., Kalra, S., Singh, S., and Kumar, R., Design, Synthesis, Biological Evaluation of 3,5-diaryl-4,5-dihydro-1H-pyrazole carbaldehydes as Non-purine Xanthine Oxidase Inhibitors: Tracing the Anticancer Mechanism via Xanthine Oxidase Inhibition (2021) **Bioorganic chemistry**, Volume 107, 104620. (**Impact Factor: 5.30**)
2. **Joshi, G.**, Kalra, S., Yadav, U. P., Ansari, A. J., Maurya, A. K., Agnihotri, V. K.,... & Kumar, R., (2020). E-pharmacophore guided discovery of pyrazolo[1,5-c]quinazolines as dual inhibitors of topoisomerase-I and histone deacetylase. **Bioorganic chemistry**, 94, 103409 (**Impact Factor: 5.30**)
3. **Joshi, G.**; Chauhan, M.; Kumar, R.; Thakur, A.; Sharma, S.; Singh, R.; Wani, A.; Sharon, A.; Bharatam, P. V.; Kumar, R., Cyclocondensation reactions of an electron deactivated 2-aminophenyl tethered imidazole with mono/1,2-biselectrophiles: Synthesis and DFT studies on rationalisation of imidazo[1,2-a]quinoxaline versus benzo[f]imidazo[1,5-a][1,3,5]triazepine selectivity switch. **Organic Chemistry Frontiers** 2018; 5(24), 3526-3533. (**Impact Factor: 5.45**)
4. **Joshi, G.**, Wani, A. A., Sharma, S., Bhutani, P., Bharatam, P. V., Paul, A. T., & Kumar, R. (2018). Unanticipated Cleavage of 2-Nitrophenyl-Substituted N-Formyl Pyrazolines under Bechamp Conditions: Unveiling the Synthesis of 2-Aryl Quinolines and Their Mechanistic

- Exploration via DFT Studies. **ACS Omega**, 3(12), 18783-18790. (Impact Factor: 4.13)
5. Joshi, G., Nayyar, H., Kalra, S., Sharma, P., Munshi, A., Singh, S., & Kumar, R. (2017). Pyrimidine Containing Epidermal Growth Factor Receptor Kinase inhibitors: Synthesis and Biological Evaluation. **Chemical Biology & Drug Design**. 2017, 90(5);Pages 995-1006. (Impact Factor:2.87)
  6. Joshi G, Sindhu J, Thakur S, Rana A, Sharma G, Poduri R. Recent efforts for drug identification from phytochemicals against SARS-CoV-2: Exploration of the chemical space to identify druggable leads. **Food and Chemical Toxicology**. 2021 Jun 1; 152:112160. ([Corresponding author](#)) (Impact Factor: 5.57)
  7. Arora S., Joshi, G., Kalra, S., Wani, P., Bharatam, Kumar, R. (2019). A Knoevenagel/Tandem Knoevenagel and Michael Adducts of 2 Cyclohexane-1,3-dione and Aryl Aldehydes: Synthesis, DFT Studies, Xanthine Oxidase Inhibitory Potential, and Molecular Modeling. **ACS Omega**, 4 (3), 4604-4614. DOI: 10.1021/acsomega.8b03060 (*Equal contribution as first author*) (Impact Factor: 4.13)
  8. Ansari, A. J., Joshi, G., Sharma, P., Maurya, A. K., Metre, R., Agnihotri, V. K., ... & Sawant, D. M. Pd-Catalyzed four-Component Sequential Reaction Delivers a Modular Fluorophore Platform for Cell Imaging. **Journal of Organic Chemistry**. 54, 7, 3817-3825. DOI: 10.1021/acs.joc.8b0284 (Impact Factor: 4.19)
  9. Sawant, D.M., Sharma, S., Pathare, R.S., Joshi, G., Kalra, S., Sukanya, S., Maurya, A.K., Metre, R.K., Agnihotri, V.K., Khan, S. and Kumar, R., 2018. Relay tricyclic Pd (ii)/Ag (i) catalysis: design of a four-component reaction driven by nitrene-transfer on isocyanide yields inhibitors of EGFR. **Chemical Communications**, 54(82), pp.11530-11533. (Impact Factor: 6.06)
  10. Ansari, A. J., Joshi, G., Yadav, U. P., Maurya, A. K., Agnihotri, V. K., Kalra, S., ... & Sawant, D. M. (2019). Exploration of Pd-catalysed four-component tandem reaction for one-pot assembly of pyrazolo [1, 5-c] quinazolines as potential EGFR inhibitors. **Bioorganic chemistry**, Volume 93, December 2019, 103314. (Impact Factor: 5.30)
  11. Chauhan, M., Joshi, G., Kler, H., Kashyap, A., Amrutkar, S. M., Sharma, P., Bhilare, K. D., Banerjee, U. C., Singh, S., & Kumar, R. (2016). Dual inhibitors of epidermal growth factor receptor and topoisomerase II $\alpha$  derived from a quinoline scaffold. **RSC Advances**, 6(81), 77717-77734. (Impact Factor: 4.03)
  12. Bhat, Z.R.; Kumar, M.; Sharma, N.; Yadav, U.P.; Singh, T.; Joshi, G.; Pujala, B.; Raja, M.; Chatterjee, J.; Tikoo, K.; Singh, S.; Kumar, R. In Vivo Anticancer Evaluation of 6b, a Non-Covalent Imidazo[1,2-a]quinoxaline-Based Epidermal Growth Factor Receptor Inhibitor against Human Xenograft Tumor in Nude Mice. **Molecules** 2022, 27, 5540. (Impact Factor: 4.96)
  13. Darpan, Joshi, G., Amrutkar, S. M., Baviskar, A. T., Kler, H., Singh, S., Banerjee, U. C., & Kumar, R. (2016). Synthesis and biological evaluation of new 2, 5-dimethylthiophene/furan based N-acetyl pyrazolines as selective topoisomerase II inhibitors. **RSC Advances**, 6(18), 14880-14892. (Impact Factor: 4.03)
  14. Kalra, S., Joshi, G., Kumar, M., Arora, S., Kaur, H., Singh, S., Munshi, A. and Kumar, R., "Exploration of Anticancer Potential of Imidazole and Imidazole Fused Derivatives: Design, Synthesis and EGFR Inhibition" (2020), **RSC Medicinal Chemistry**, 11(8), 923-939. (<https://doi.org/10.1039/D0MD00146E>) (Impact Factor: 3.74)
  15. Joshi, G., and Poduri, Selection of Active Antiviral Compounds Against Covid-19 Disease Targeting Coronavirus Endoribonuclease Nendou/NSP15 Via Ligand based Virtual Screening and Molecular Docking (2020), Volume 18 , Issue 6 , 2021; **Letters in Drug Design & Discovery** DOI : 10.2174/1570180817999201211191445 ([Corresponding author](#)) (Impact Factor: 1.6)

16. Joshi, G., and Kumar. Anticancer activity of imidazole fused quinoxalines via human topoisomerase inhibition (2020), **J. Indian Chem. Soc.**, 97, pp:1-9. **(Impact Factor: 0.24)**
17. Khan, I., Joshi, G., Sarkar, B., Nakhate, K. T., Kumar, R., & Gupta, Doxorubicin and Crocin Co-delivery by Polymeric Nanoparticles for Enhanced Anticancer Potential In Vitro and In Vivo (2020) **ACS Applied Bio Materials**, 3 (11), 7789-7799. DOI: 10.1021/acsabm.0c00974
18. Sathish, E., Ansari, A. J., Joshi, G., Pandit, A., Shukla, M., Kumari, N., ... & Sawant, D. M. (2022). Pd-catalysed [3+ 2]-Cycloaddition towards the generation of bioactive bis-heterocycles/Identification of COX-2 inhibitors via in silico analysis. **Org. Biomol. Chem.**, 2022,20, 4746-4752 **(Impact Factor: 3.89)**
19. Khan, I., Joshi, G., Nakhate, K. T., Kumar, R., & Gupta, U. (2019). Nano-Co-Delivery of Berberine and Anticancer Drug Using PLGA Nanoparticles: Exploration of Better Anticancer Activity and In Vivo Kinetics. **Pharmaceutical Research**, 36(10), 149. **(Impact Factor: 4.58)**
20. Mayank, J. S. Sidhu, G. Joshi, J. Sindhu, N. Kaur, N. Singh, Structural Diversity of D-Alanine: D-Alanine Ligase and Its Exploration in Development of Antibacterial Agents Against the Multi-Variant Bacterial Infections. **Chemistry Select**, 2022, 7, e202104373. **(Impact Factor: 2.30)**
21. Kumar M, Joshi G, Arora S, Singh T, Biswas S, Sharma N, Bhat ZR, Tikoo K, Singh S, Kumar R. Design and Synthesis of Non-Covalent Imidazo[1,2-a]quinoxaline-Based Inhibitors of EGFR and Their Anti-Cancer Assessment. **Molecules**. 2021; 26(5):1490. <https://doi.org/10.3390/molecules26051490> **(Impact Factor: 4.92)**
22. Kalra, S., Joshi, G., Munshi, A., & Kumar, R. (2018). Role of 2-Dimensional autocorrelation descriptors in predicting Antimalarial Activity of Artemisinin and its analogues: A QSAR study. **Current Topics in Medicinal Chemistry** 8, no. 31 (2018): 2720-2730. **(Impact Factor: 3.29)**
23. Prasad Yadav, U., Ansari, A.J., Arora, S., Joshi, G., Singh, T., Kaur, H., Dogra, N., Kumar, R., Kumar, S., Sawant, D.M., Singh, S., 2021. Design, Synthesis and Anticancer Activity of 2-Arylimidazo[1,2-a]Pyridinyl-3-Amines. **Bioorganic Chemistry** 118, 105464. <https://doi.org/10.1016/j.bioorg.2021.105464> **(Impact Factor: 5.30)**
24. Kaur, G., Cholia, R. P., Joshi, G., Amrutkar, S. M., Kalra, S., Mantha, A. K., ... & Kumar, R. (2018). Anticancer activity of dihydropyrazolo [1, 5?c] quinazolines against rat C6 glioma cells via inhibition of topoisomerase II. **Archiv der Pharmazie**, 351(6), 1800023. **(Impact Factor: 4.61)**
25. Khan, I., Sarkar, B., Joshi, G., Nakhate, K.T., A., Mantha, A.K., Kumar, R., Kaul, A., Chaturvedi, S., Mishra, A.K., Gupta, U., 2021. Biodegradable Nanoparticulate Co-Delivery of Flavonoid and Doxorubicin: Mechanistic Exploration and Evaluation of Anticancer Effect In Vitro and In Vivo. **Biomaterials and Biosystems**, 100022. <https://doi.org/10.1016/j.bbiosy.2021.100022>
26. Negi, A., Alex, J. M., Amrutkar, S. M., Baviskar, A. T., Joshi, G., Singh, S., Banerjee, U. C., & Kumar, R. (2015). Imine/amide-imidazole conjugates derived from 5-amino-4-cyano-N1-substituted benzyl imidazole: Microwave-assisted synthesis and anticancer activity via selective topoisomerase-II-? inhibition. **Bioorganic & medicinal chemistry**, 23(17), 5654-5661. **(Impact Factor: 3.46)**
27. Joshi, G., Kaur, J., Sharma, P., Kaur, G., Bhandari, Y., Kumar, R., & Singh, S. (2019). P53-mediated anticancer activity of Citrullus colocynthis extracts. **The Natural Products Journal**, 9(4), 303-311.

## Review Articles:

1. Bhutani P, **Joshi G**, Raja N, Bachhav N, Rajanna PK, Bhutani H, Paul AT, Kumar R. US FDA approved drugs from 2015–June 2020: a perspective. **Journal of Medicinal Chemistry**. 2021 Feb 22;64(5):2339-81 (*Equal contribution as first author*) (**Impact Factor: 8.03**)
2. Arora, S., **Joshi, G.**, Chaturvedi, A., Heuser, M., Patil, S., Kumar, R., 2021. A Perspective on Medicinal Chemistry Approaches for Targeting Pyruvate Kinase M2. **Journal of Medicinal Chemistry**. 10.1021/acs.jmedchem.1c00981. (*Equal contribution as first author*) (**Impact Factor: 8.03**)
3. Kumar, R., **Joshi, G.**, Kler, H., Kalra, S., Kaur, M., & Arya, R. (2017). Toward an Understanding of Structural Insights of Xanthine and Aldehyde Oxidases: An Overview of their Inhibitors and Role in Various Diseases. **Medicinal Research Reviews**. 1-54(**Impact Factor: 12.38**)
4. **Joshi, G.**, Thakur, S., Mayank, Poduri, R., (2021). Exploring insights of hydroxychloroquine, a controversial drug in Covid-19: An update. **Food and Chemical Toxicology**, Volume 151, May 2021, 112106 doi: 10.1016/j.fct.2021.112106 (*Corresponding author*) (**Impact Factor: 5.57**)
5. Thakur, S., Sarkar, B., Ansari, A. J., Khandelwal, A., Arya, A., Poduri, R., & **Joshi, G.** (2021). Exploring the magic bullets to identify Achilles' heel in SARS-CoV-2: Delving deeper into the sea of possible therapeutic options in Covid-19 disease: An update. **Food and Chemical Toxicology**, 111887. doi: 10.1016/j.fct.2020.111887 (*Corresponding author*) (**Impact Factor: 5.57**)
6. **Joshi, G.**, Borah P, Thakur, S., Sharma P Mayank, Poduri, R., Exploring the COVID-19 vaccine candidates against SARS-CoV-2 and its variants: where do we stand and where do we go? (2021), **Human Vaccines & Immunotherapeutic**, DOI: 10.1080/21645515.2021.1995283 (*Corresponding author*) (**Impact Factor: 4.52**)
7. **Joshi, G.**, & Poduri, R., (2022) Omicron, a new SARS-CoV-2 variant: assessing the impact on severity and vaccines efficacy, **Human Vaccines & Immunotherapeutics**, DOI: 10.1080/21645515.2022.2034458 (*Corresponding author*) (**Impact Factor: 4.52**)
8. T.P. Sri Laasya, Shikha Thakur, Ramarao Poduri, **Gaurav Joshi,\*** Current insights toward kidney injury: Decrypting the dual role and mechanism involved of herbal drugs in inducing kidney injury and its treatment, **Current Research in Biotechnology**, 2020, Volume 2, Pages 161-175, <https://doi.org/10.1016/j.crbiot.2020.11.002>( *Corresponding author*)
9. Poduri, R., Joshi, G., & Jagadeesh, G. (2020). Drugs targeting various stages of the SARS-CoV-2 life cycle: exploring promising drugs for the treatment of Covid-19. **Cellular signaling**, 74, 109721. (*Equal contribution as first author*) (**Impact Factor: 4.85**)
10. **Joshi, G.**, Nayyar, H., Marin Alex, J., S Vishwakarma, G., Mittal, S., & Kumar, R. (2016). Pyrimidine-fused Derivatives: Synthetic Strategies and Medicinal Attributes. **Current Topics in Medicinal Chemistry**, 16(28), 3175-3210. (**Impact Factor: 3.22**)
11. **Joshi, G.**, Singh, P. K., Negi, A., Rana, A., Singh, S., & Kumar, R. (2015). Growth factors mediated cell signalling in prostate cancer progression: implications in discovery of anti-prostate cancer agents. **Chemico-biological interactions**, 240, 120-133. (**Impact Factor: 5.16**)
12. Kalra, S., **Joshi, G.**, Munshi, A., & Kumar, R. (2017). Structural insights of cyclin dependent kinases: Implications in design of selective inhibitors. **European Journal of Medicinal Chemistry**. Volume 142, 15 December 2017, Pages 424-458. (**Impact Factor: 7.08**)
13. Sankar, J., Arora, S., Joshi, G., & Kumar, R. (2022). Pore-forming proteins and their role in cancer and inflammation: Mechanistic insights and plausible druggable targets. **Chemico-biological interactions**, 366, 110127. <https://doi.org/10.1016/j.cbi.2022.110127> (**Impact**

**Factor: 5.16)**

14. Goel, K. K., Rajput, S. K., Kumar, A., Nandi, N. K., **Joshi, G.**, & Kharb, R. (2022). Imidazoquinoxaline as a Privileged Fused Pharmacophore in Anticancer Drug Development: A Review of Synthetic Strategies and Medicinal Aspects. **ChemistrySelect**, 7(37), e202200834. (**Impact Factor: 2.5**)
15. Kumar, M., **Joshi, G.**, Kumar, R. Epidermal Growth Factor Receptor and its trafficking regulation by acetylation: Implication in resistance and exploring the newer therapeutic avenues in cancer. **Current Topics in Medicinal Chemistry** (2020) 20: 1105. (**Impact Factor: 3.22**)
16. Chauhan, M., Sharma, G., **Joshi, G.**, & Kumar, R. (2016). Epidermal Growth Factor Receptor (EGFR) and its Cross-Talks with Topoisomerases: Challenges and Opportunities for Multi-Target Anticancer Drugs. **Current Pharmaceutical Design**, 22(21), 3226-3236. (**Impact Factor: 3.31**)
17. Sharma, S., **Joshi, G.**, Kalra, S., S. Singh., and Kumar, R Synthetic Versus Enzymatic Pictet-Spengler Reaction: An Overview (2018) **Current Organic Synthesis**, Vol. 15, issue , pages 1-16, year 2018, issn 1570-1794/1875-6271. (**Impact Factor: 2.27**)
18. Muraleedharan, A\*., **Joshi, G\*.**, & Kumar, R. (2017). Natural Products Based Ayurvedic Formulations: Chemical Constituents and Treatment in Neurodegenerative Disorders# 130. **Mini-Reviews in Organic Chemistry**, 14(4), 280-287. (*\*Both authors contributed equally*) (**Impact Factor: 2.15**)
19. Rana, A., Alex, J. M., Chauhan, M., **Joshi, G.**, & Kumar, R. (2015). A review on pharmacophoric designs of antiproliferative agents. **Medicinal Chemistry Research**, 24(3), 903-920. (**Impact Factor: 2.35**)

**Books/Book Chapters**

1. Textbook on “DRUG REPURPOSING” (ISBN 978-3-11-079114-3) by **Walter de Gruyter** GmbH, Genthiner Str. 13, 10785 Berlin, Germany (<https://www.degruyter.com/>). Editorial Members: Ramarao Poduri; **Gaurav Joshi**; Asim Kumar; Mayank (**In press**)
2. **Joshi G**, Kaur M, Kumar R. Dynamic axial chirality in drug design and discovery: Introduction to atropisomerism, classification, significance, recent trends and Challenges. Drug Discovery and Development: From Targets and Molecules to Medicines. 2021:103-24. **Springer Nature**) ISBN: 978-981-15-5534-3
3. **Joshi, G.**, Thakur, A., Kaur, G., Kalra, S., Singh, S., & Kumar, R. (2017). Interaction between topoisomerases and histone deacetylases: Role in cancer progression and therapeutic interventions. **Nova Science Publishers, Inc.**
4. Kaur, G., **Joshi, G.**, P., Sharma, Singh, S., & Kumar, R Topoisomerases genetics and its associated diseases (2017). **Nova Publisher, USA Inc.**, ISBN: 978-1-53611-841-4
5. Small molecule drugs in the pipeline to treat and manage Covid-19 disease: Exploring the mechanistic insights toward their therapeutic intervention (2020). Sahil Arora, Manvendra Kumar, **Gaurav Joshi**, Raj Kumar (**Bentham Science**) (**Corresponding author**)
6. Gopal, R. K., **Joshi, G.**, & Kumar, R. (2022). Retrospective and Prospective Bioremediation Technologies for Industrial Effluent Treatment. In Organic Pollutants (pp. 343-372). **Springer**, Cham.
7. Priyank, P. , **Gaurav, J.** , Meenu, A. . Pyridine Nucleus as a Directing Group for Metal-Based C–H Bond Activation. In: Pal, S. , editor. Chemistry with Pyridine Derivatives.London: **IntechOpen**; 2022
8. Joshi, K., Das, A., **Joshi, G.** and Sarkar, B., 2022. Application of mushrooms in the degradation of xenobiotic components and the reduction of pesticides. In Wild Mushrooms (pp. 459-469). **CRC Press**.

## Conferences/Workshops/Presentations

1. Presented poster entitled "Design, Synthesis and In vitro Evaluation of 3,5-Diaryl-4,5-dihydro-1H-pyrazole-1-carbaldehyde Derivatives: Potential for Xanthine Oxidase Inhibition in the Prevention and Treatment of Cancer" in 3-day International Conference (24th ISCBC-2018) on Frontier Research in Chemistry & Biology Interface from 11th-13th January 2018 in association with Indian Society of Chemists and Biologists (ISCB).
2. Presented an oral talk entitled "Chemistry of drug addiction and abuse: Why some drugs are addictive", in regional seminar on Socio-Legal and other challenges, for the prevention of drug abuse in India. Organized by Central University of Punjab in collaboration with National Institute of Social Defense, New Delhi on 24-25 August, 2017
3. Presented a poster in National Symposium entitled "Design Synthesis and Biological evaluation of pyrazolo[1,5-c]quinazoline scaffolds as anticancer agents" on "Recent Trends in Molecular Medicines" organized by Central University of Punjab, 2014.
4. Presented a poster in International Conference on Nascent Development in Chemical Sciences (NCDS-2015), entitled "Design, Synthesis and in vitro Screening of Novel Heterocycles as Potential Anticancer Agents" organized by BITS Pilani, Rajasthan from 16th - 18th October, 2015.
5. Organized (Member organizing committee) a Three-Day National Workshop on "Advanced Workshop on Molecular Docking, Virtual Screening and Computational Biology" held at Department of Pharmaceutical Sciences and Natural Products in collaboration with Schrödinger INC. USA on Nov. 15-17, 2017 at Central University of Punjab, City Campus, Mansa Road, Bathinda.
6. Joshi, G, Singh, S, and Kumar, R, presented a poster at 1st International Electronic Conference on Medicinal Chemistry entitled "Design, Synthesis and in vitro Screening of Pyrazolines based compounds as Phytohaemagglutinin (PHA) mimetic" 2-27 November 2015, organized by Pharmaceuticals.
7. Attended one day hands on program "Flow Cytometry Technical Education and Evaluation" on August 22,2017; organised by Central University of Punjab in joint collaboration with BD Biosciences.
8. Attended a three-day workshop on "Drug Design, Molecular Docking, Virtual Screening and Pharmacoinformatics" 26th-28th November, 2015 organized by Central University of Punjab
9. Attended a Two-Day National Workshop on 'Cytokine analysis and phenotyping of B/T cells using Flow Cytometry' held by Centre for Human Genetics and Molecular Medicine in collaboration with BD Biosciences on Jan. 21-22, 2016 at Central University of Punjab, City Campus, Mansa Road, Bathinda.
10. Presented poster at One Day National Workshop on 'Training the Trainers- Water Quality and Health' held on Feb. 11, 2015 at Central University of Punjab, City Campus, Mansa Road, Bathinda.
11. Attended seminar on "The evolving Importance of Intellectual Property Rights" held on Jan. 30,2016 at Central University of Punjab, City Campus, Mansa Road, Bathinda.
12. Attended a One-Day National Workshop on 'GC-MS instrumentation and sample preparation techniques' held by Central instrumentation laboratory in collaboration with Toshvin Analytical Pvt. Ltd. Mumbai, on Jan. 11, 2019 at Central University of Punjab, City Campus, Mansa Road, Bathinda

## Resource Person

1. Three-day Webinar on SARS-CoV-2 life cycle in the host cell. Potential Therapeutic targets for repurposed and experimental drugs for Covid-19. Jointly hosted by APTI and Adichunchunagiri University



### Administrative /Academic committees and responsibilities

- a. Active member of NAAC Accreditation Committee of Central University of Punjab (Student Representative).
- b. Member Internal Quality Assessment Cell (IQAC), of Central University of Punjab (Student Representative).
- c. Member of Board of Studies (elected student member), of Central University of Punjab for year 2016-2018
- d. Registered Pharmacist at Uttarakhand Pharmacy Council
- e. Member Scientific Committee- HNBGU

---

### **Links to Professional Sites**

[https://www.researchgate.net/profile/Gaurav\\_Joshi11](https://www.researchgate.net/profile/Gaurav_Joshi11)

<https://scholar.google.com/citations?user=p0MbxfMAAAAJ>

<https://orcid.org/my-orcid> (orcid.org/0000-0002-7812-2871)

---

### **Declaration**

I hereby declare that all information given above is true to the best of my knowledge and belief that the document in the support of the information will be forwarded when required.

Gaurav Joshi