

Curriculum Vitae and Bibliography

Name: Sahil Sharma

Date of Birth: November 11, 1987

City and Country of Birth: Moga and India

Citizenship: Indian

Marital Status: Married

Office Address: Z-2119, Mortimer B. Zuckerman Research Center,
417 East 68th Street, New York, NY 10065.

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Home Address: 475 Main Street, Apt# 30, New York, NY 10044

Board Certification: Registered Pharmacist Year: 2012 Name: Punjab State Pharmacy Council

Education:

College: ISF College of Pharmacy (affiliated to Punjab Technical University)

Start Date: July, 2005 End Date: May, 2009, Degree: Bachelor of Pharmacy, and Place: Moga, Punjab-142001, India

Graduate School: ISF College of Pharmacy (affiliated to Punjab Technical University)

Start Date: July, 2009 End Date: August, 2011, Degree: Master of Pharmacy, and Place: Moga, Punjab-142001, India

Graduate School: Guru Nanak Dev University

Start Date: May, 2012 End Date: December, 2016, Degree: PhD (Pharmaceutical Sciences), and Place: Amritsar, Punjab-143005, India

Positions and Appointments:

Academic Appointments

- Worked as Assistant Professor (Contractual) in the Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab-143005, India
Start Date: July 15, 2013 End Date: May 30, 2014, Title: Assistant Professor, Department: Department of Pharmaceutical Sciences, and Place: Guru Nanak Dev University, Amritsar, Punjab-143005, India
- Worked as Assistant Professor (Contractual) in the Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab-143005, India
Start Date: July 15, 2014 End Date: May 29, 2015, Title: Assistant Professor, Department: Department of Pharmaceutical Sciences, and Place: Guru Nanak Dev University, Amritsar, Punjab-143005, India

Research Appointments

- Worked as Research Fellow in the Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab-143005, India
Start Date: October 24, 2011 End Date: July 15, 2013, Title: Research Fellow, Department: Department of Pharmaceutical Sciences, and Place: Guru Nanak Dev University, Amritsar, Punjab-143005, India

- Worked as Research Fellow in the Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab-143005, India
Start Date: August 27, 2015 End Date: April 04, 2016, Title: Research Fellow, Department: Department of Pharmaceutical Sciences, and Place: Guru Nanak Dev University, Amritsar, Punjab-143005, India
- Worked as Graduate Research Assistant in Dr. Chiosis lab (Z-2119), Chemical Biology Program, Mortimer B. Zuckerman Research Center, 417 East 68th Street, New York, NY 10065
Start Date: July 6, 2016 End Date: April 02, 2017, Title: Graduate Research Assistant: Department: Chemical Biology Program, Mortimer B. Zuckerman Research Center, and Place: 417 East 68th Street, New York, NY 10065
- Working as Postdoctoral Research Fellow in Dr. Chiosis lab (Z-2119), Chemical Biology Program, Mortimer B. Zuckerman Research Center, 417 East 68th Street, New York, NY 10065
Start Date: April 02, 2017 – Till Date, Title: Graduate Research Assistant: Department: Chemical Biology Program, Mortimer B. Zuckerman Research Center, and Place: 417 East 68th Street, New York, NY 10065

Scientific and Medical Societies:

- Member of Society of Pharmaceutical Education & Research, India

Honors and Awards:

- Awarded post graduate scholarship from All India Council of Technical Education during Master of Pharmacy for qualifying Graduate Aptitude Test of Engineering
- Distinction in Master of Pharmacy
- 1st prize in poster presentation at 1st Indo-Korean Conference organized by APP Punjab State Branch at GHG Khalsa College of Pharmacy, Gurusar Sadhar, Ludhiana, Punjab in 2015
- Guest of Honour at Shaheed Bhagat Singh College of Pharmacy, Patti, Punjab, India
- IELTS score (General training): Speaking (CLB = 10), Reading (CLB = 10), Writing (CLB = 8), Speaking (CLB = 10)

Other Activities:

- Reviewer for European Journal of Medicinal Chemistry, BMC Pharmacology & Toxicology, Journal of Molecular Liquids and Journal of Nanostructure in Chemistry
- Editorial board member for journal BMC Pharmacology & Toxicology
- Pursued one month training at Adley Formulations, Baddi, Himachal Pradesh from August 1, 2009 to September 1, 2009

Languages:

- Spoken: English, Hindi, Punjabi
- Written: English, Hindi, Punjabi

Publications:

I. Research Papers

- Kaur, M.; Kaur, A.; Mankotia, S.; Singh, H.; Singh, A.; Singh, J. V.; Gupta, M. K.; Sharma, S.; Nepali, K.; Bedi, P. M. S. Synthesis, screening and docking of fused pyrano[3,2-d]pyrimidine derivatives as xanthine oxidase inhibitor. *Eur J Med Chem.* **2017**, 131, 14-28.
- Singh, H.; Singh, J. V.; Gupta, M. K.; Singh, P.; Sharma, S.; Nepali, K.; Bedi, P. M. S. Benzoflavones as cholesterol esterase inhibitors: Synthesis, biological evaluation and docking studies. *Bioorg Med Chem Lett.* **2017**, 27, 850-854.
- Sharma, S.; Gupta, M. K.; Saxena A. K.; Bedi, P. M. S. Thiazolidinone Constraint Combretastatin

Analogues as Novel Antitubulin Agents: Design, Synthesis, Biological Evaluation and Docking Studies. *Anticancer Agents Med Chem* **2017**, 17, 230-240.

- Singh, H.; Kumar, M.; Nepali, K.; Gupta, M. K.; Saxena, A. K.; Sharma, S.; Bedi, P. M. S. Triazole tethered C₅-curcuminoid-coumarin based molecular hybrids as novel antitubulin agents: Design, synthesis, biological investigation and docking studies. *Eur J Med Chem* **2016**, 116, 102-115.
- Sharma, S.; Gupta, M. K.; Saxena, A. K.; Bedi, P. M. S. Triazole linked mono carbonyl curcumin-isatin bifunctional hybrids as novel anti tubulin agents: Design, synthesis, biological evaluation and molecular modeling studies. *Bioorg Med Chem* **2015**, 23, 7165-7180.
- Sharma, S.; Kaur, C.; Budhiraja, A.; Nepali, K.; Gupta, M. K.; Saxena, A. K.; Bedi, P. M. S. Chalcone based azacarboline analogues as novel antitubulin agents: Design, synthesis, biological evaluation and molecular modeling studies. *Eur J Med Chem* **2014**, 85, 648-660.
- Sharma, S.; Sharma, K.; Ojha, R.; Kumar, D.; Singh, G.; Nepali, K.; Bedi, P. M. S. Microwave assisted synthesis of naphthopyrans catalysed by silica supported fluoroboric acid as a new class of non purine xanthine oxidase inhibitors. *Bioorg Med Chem Lett* **2014**, 24, 495-500.
- Sharma, S.; Thakur, V.; Ojha, R.; Budhiraja, A.; Nepali, K.; Bedi, P. M. S. Aza Analogs of Flavones as Potential Antimicrobial Agents. *Lett Drug Des Discov* **2013**, 10, 327-334.
- Kaur, C.; Dhiman, S.; Singh, H.; Kaur, M.; Bhagat, S.; Gupta, M. K.; Sharma, S.; Bedi, P. M. S. Synthesis, screening and docking studies of benzochromone derivatives as xanthine oxidase inhibitors. *J Chem Pharm Res* **2015**, 7, 127-136.
- Singh, J. V.; Sharma, S.; Rahar, S. Synthesis and spermicidal activity of substituted (E)-3-(aryl/heteroaryl)-1-phenylprop-2-en-1-ones. *Der Pharma Chem* **2015**, 7, 93-103.
- Singh, H.; Sharma, S.; Ojha, R.; Gupta, M. K.; Nepali, K.; Bedi, P. M. S. Synthesis and evaluation of naphthoflavones as a new class of non purine xanthine oxidase inhibitors. *Bioorg Med Chem Lett* **2014**, 24, 4192-4197.
- Viridi, H.S.; Sharma, S.; Mehndiratta, S.; Bedi, P. M. S.; Nepali, K. Design, synthesis and evaluation of 2,4-diarylpyrano[3,2-c]chromen-5(4H)-one as a new class of non-purine xanthine oxidase inhibitors. *J Enzyme Inhib Med Chem* **2014**, 30, 1-7.
- Sharma, M.; Sharma, S.; Buddhiraja, A.; Saxena, A. K.; Nepali, K.; Bedi, P. M. S. Synthesis and cytotoxicity studies of 3,5-diaryl N-acetyl pyrazoline-isatin hybrids. *Med Chem Res* **2014**, 23, 4337-4344.
- Singh, J.; Sharma, S.; Saxena, A. K.; Nepali, K.; Bedi, P. M. S. Synthesis of 1,2,3-triazole tethered bifunctional hybrids by click chemistry and their cytotoxic studies. *Med Chem Res* **2013**, 22, 3160-3169.
- Dhiman, R.; Sharma, S.; Singh, G.; Nepali, K.; Bedi, P. M. S. Design and Synthesis of Aza-Flavones as a New Class of Xanthine Oxidase Inhibitors. *Arch Pharm Chem Life Sci* **2013**, 346, 7-16.
- Kaur, R.; Naaz, F.; Sharma, S.; Mehndiratta, S.; Gupta, M. K.; Bedi, P. M. S.; Nepali, K. Screening of a library of 4-Aryl/Heteroaryl-4H-fused pyrans for xanthine oxidase inhibition: Synthesis, biological evaluation and docking studies. *Med Chem Res* **2015**, 24, 3334-3349.

II. Review Articles

- Ojha, R.; Singh, J.; Ojha, A.; Singh, H.; Sharma, S.; Nepali, K. Xanthine Oxidase Inhibitors for the treatment of Hyperuricemia and gout An updated patent review. *Expert Opin Ther Pat* **2017**, 27, 311-345.
- Singh, A.; Kaur, N.; Singh, G.; Sharma, P.; Bedi, P.; Sharma, S.; Nepali, K. Topoisomerase I and II Inhibitors: A Patent Review. *Recent Pat Anticancer Drug Discov* **2016**, 11, 401-423.
- Sharma, S.; Ojha, R.; Singh, H.; Nepali, K. Design Strategies, Structure Activity Relationship and Mechanistic Insights for Purines as Kinase Inhibitors. *Eur J Med Chem* **2016**, 112, 298-346.
- Sharma, S.; Mehndiratta, S.; Yadav, S.; Bedi, P. M. S.; Nepali, K. Purine Analogues as Kinase Inhibitors: A Review. *Recent Pat Anticancer Drug Discov* **2015**, 10, 308-341.
- Kaur, M.; Sharma, S.; Bedi, P. M. S. Silica supported Brønsted acids as catalyst in organic transformations: A comprehensive review. *Chinese J Catal* **2015**, 36, 520-549.
- Singh, H.; Singh, H.; Sharma, S.; Bedi, P. M. S. Chemotherapeutic potential of acridine analogs: An ample review. *Heterocycles* **2015**, 91, 2043-2085.
- Singh, A.; Kaur, N.; Sharma, S.; Bedi, P. M. S. Recent progress in biologically active xanthenes: A comprehensive review. *J Chem Pharm Res* **2016**, 8, 75-131.

- Nepali, K.; Sharma, S.; Sharma, M.; Bedi, P. M. S.; Dhar, K. L. Rational approaches, design strategies, structure activity relationship and mechanistic insights for anticancer hybrids. *Eur J Med Chem* **2014**, *77*, 422-487.
- Nepali, K.; Sharma, S.; Kumar, D.; Budhiraja, A.; Dhar, K. L. Anticancer Hybrids- A Patent Survey. *Recent Pat Anticancer Drug Discov* **2014**, *9*, 303-339.
- Nepali, K.; Sharma, S.; Ojha, R.; Dhar, K. L. Vasicine and structurally related quinazolines. *Med Chem Res* **2013**, *22*, 1-15.
- Kumar, R.; Darpan. Sharma, S.; Singh, R. Xanthine oxidase inhibitors: a patent survey. *Expert Opin Ther Pat* **2011**, *21*, 1071-108.
- Nepali, K.; Ojha, R.; Sharma, S.; Bedi, P. M. S.; Dhar, K. L. Tubulin Inhibitors: A Patent Survey', *Recent Pat Anticancer Drug Discov* **2014**, *9*, 176-220.
- Kaur, R.; Kaur, P.; Sharma, S.; Singh, G.; Mehndiratta, S.; Nepali, K. Anti-Cancer Pyrimidines in Diverse Scaffolds: A Review of Patent Literature. *Recent Pat Anticancer Drug Discov* **2015**, *10*, 23-71.
- Sapra, S.; Bhalla, Y.; Sharma, S.; Singh, G.; Nepal, K.; Budhiraja, A.; Dhar, K. L. Colchicine and its various physicochemical and biological aspects. *Med Chem Res* **2012**, *22*, 531-554.

III. Books

Singh, A.; Singh, H.; Sharma, S. Medicinal Attributes of Curcumin and Its Analogs: A Comprehensive Review. LAP Lambert Academic Publishing, 2016.

IV. Book Chapters

- Mehndiratta, S.; Sharma, S.; Kumar, S.; Nepali, K. Molecular Hybrids with Anticancer Activity. In: Rahman A, Zaman K, eds. Patents eBook Series "Topics in Anti-Cancer Research". Bentham eBooks: Bentham Science Publishers Ltd. **2015**, 3-73.
- Ojha, R.; Sharma, S.; Nepali, K. Anticancer Agents Targeting Tubulin. In: Rahman A, Zaman K, eds. Patents eBook Series "Topics in Anti-Cancer Research". Bentham eBooks: Bentham Science Publishers Ltd. **2015**, 156-266.

V. Posters

- Presented a poster at 1st Indo-Korean Conference organized by APP Punjab State Branch at GHG Khalsa College of Pharmacy, Gurusar Sadhar, Ludhiana, Punjab in 2015.
- Presented a poster at 51st National Pharmacy Week National Seminar on Pharmacist in Public Health held at Advanced Institute of Pharmacy in 2012.
- Presented a poster at 47th ANNUAL CONFERENCE OF IHPA held at ISF College of Pharmacy, Moga in 2010.

VI. Patents

- Bedi, P. M. S.; Kaur, C.; Nepali, K.; Sharma, S. 4-ARYL/HETEROARYL-(1,3)-DIAZEPINO[4,5-B] INDOLE-2 (10H)-ONE AND DIAZEPINO [4,5B] INDOL-2 (10H)-IMINE COMPOUNDS AND PROCESS FOR PREPARATION THEREOF. 2318/DEL/2012.

Conferences/Workshops:

A. International

- DST Sponsored INDO-TAIWAN WORKSHIP-2011 held at ISF College of Pharmacy, Moga.
- PTU Sponsored INDO-BULGARIA INTERNATIONAL CONFERENCE on RECENT ADVANCES IN HERBAL TECHNOLOGY held at ISF College of Pharmacy, Moga in 2013.
- 1ST INDO-KOREAN CONFERENCE on CURRENT PROGRESS AND FUTURE PERSPECTIVES IN PHARMACEUTICAL TECHNOLOGY organized by APP PUNJAB STATE BRANCH at GHG Khalsa College of Pharmacy, Gurusar Sadhar, Ludhiana, Punjab in 2015.

B. National

- ISTE-PTU Sponsored FACULTY DEVELOPMENT PROGRAMME held at SBS College of Pharmacy, Patti, Tarn Taran in 2014.
- Workshop on Advances in Structure Based Drug Design held at ISF College of Pharmacy, Moga in 2013.
- 51st National Pharmacy Week National Seminar on Pharmacist in Public Health held at Advanced Institute of Pharmacy in 2012.
- APTI-16th Annual National Convention 2011 held at ISF College of Pharmacy, Moga.
- AICTE Sponsored National Seminar on RATIONAL USE AND CLINICAL TRIAL OF DRUGS at ISF College of Pharmacy, Moga in 2011.
- 47th ANNUAL CONFERENCE OF IHPA held at ISF College of Pharmacy, Moga in 2010.
- SILVER JUBILEE CONFERENCE OF INDIAN PHARMACY GRADUATES ASSOCIATION -2009 held at ISF College of Pharmacy, Moga.
- 12th Annual National ISP Convention held at ISF College of Pharmacy, Moga in 2008.