

FACULTY PROFILE PROFORMA

Title (Ms/Mr/Dr/Prof)	Dr.	First Name	Mahesh	Last Name	Chand	Photograph
Designation	Assistant Professor					
Department	Chemistry					
Address (Official)	Department of Chemistry Kalindi College, (University of Delhi) East Patel Nagar New Delhi-110 008					
Phone No.	+91-9560203470, +91-6397195424					
Email	mahesh.chand2008@gmail.com, mahesh@kalindi.du.ac.in					
Education						
Subject	Institution			Year	Details	
Chemistry (Org. Chem.)	University of Delhi, Delhi, India			2014	Ph.D.	
Chemistry (Org. Chem.)	Dr. B.R.A. University, Agra			2006	M.Phil.	
Chemistry (Org. Chem.)	C.C.S. University, Meerut			2004	M.Sc.	
Chem., Zool., Bot.	C.C.S. University, Meerut			2002	B.Sc.	
Career Profile						
Organisation/Institution	Designation		Duration		Role	
Kalindi College, D.U. Delhi	Assistant Professor		July 2019 onwards		• Teaching • Administrative duties	
Rajdhani College, D.U. Delhi	Assistant Professor		April, 2019 to May, 2019		• Teaching	
Swami Shradhhanand College, D.U. Delhi	Assistant Professor		January, 2019 to April, 2019		• Teaching	
Chemistry Dept., Univ. of Delhi, Delhi, India	Assistant Professor		January 21, 2017 – to April, 2018		• Teaching & Research • Administrative duties	
Zakir Hussain College, D.U. Delhi	Assistant Professor		August, 2015 to December, 2015		Teaching	
Sri Aurobindo College, D.U. Delhi	Assistant Professor		February, 2015 to August, 2015		Teaching	
Acharya Narendra Dev College, D.U. Delhi	Assistant Professor		January, 2015 to May, 2015		Teaching	
Kirori Mal College, D.U. Delhi	Assistant Professor		October, 2014 to December, 2014		Teaching	
Research Interests / Specialization						
<ul style="list-style-type: none"> • Organic Chemistry • Bio-Organic Chemistry • Natural Products (Isolation and Synthesis) • Medicinal Chemistry 						

Administrative Assignments / Contribution to corporate life

- Participation Internal Quality Assurance Cell (IQAC) Kalindi College Organized Training session for Teaching and non-Teaching Staff on 11th June 2020.
- Member: Committee for Organizing Chemistry Orientation and Sensitization Program for First Year Students November 2020, Kalindi College.
- Member: Committee for Organizing “Lehren” the Inter-college Cultural Fest, 2020 by Kalindi College.
- Involved in NAAC Data Preparation of Department of Chemistry, University of Delhi, Delhi (India).
- Member of Organizing Committee of Inauguration of RASAIION Chemical Society by Department of Chemistry, University of Delhi, Delhi (India).

Teaching Experiences (Subject/Courses taught)

- **Course Taught at the PG level:** Name Reactions and their Mechanism, Stereochemistry, Spectroscopy (UV-Vis, IR, ¹H NMR & ¹³C NMR and Mass spectrometry), Natural Products, Photochemistry, Pericyclic Reactions, Organic Synthesis, Retrosynthesis, Organic Chemistry laboratory classes for Masters.
- **Course Taught at the UG level:** Basic Organic Chemistry, Hydrocarbons, Functional Groups, Reactions intermediates and Reaction Mechanism, Stereochemistry, Spectroscopy, Carbohydrates, Lipids, Proteins, Polynuclear hydrocarbons, Polymers, Metallurgy, Periodic Properties, s, p-block elements, Coordination Chemistry, Chemical Kinetics, Thermodynamics, Solutions. All kind of laboratory classes in the various undergraduate courses.

Research Guidance

Not Applicable

Publication (Peer Reviewed/Indexed Journals)

1. **Mahesh Chand**, Reena Kaushik and Subhash C. Jain, Synthesis, antimicrobial & antioxidant activities of hybrid molecules containing benzotriazole and 1,2,4-triazole. Turkish Journal of Chemistry, 2018, 42, 1663–1677. (E-ISSN: 1303-6130, ISSN: 1300-0527, I.F.: 1.37). doi:10.3906/kim-1803-61.
2. **Mahesh Chand**, Reena Kaushik, Mohd. Rashid and Subhash C. Jain, Synthesis and antimicrobial evaluation of novel 4-methyl-7-((5-aryl-4H-1,2,4-triazol-3-yl)methoxy)-2H-benzopyran-2-ones. Der Pharma Chimica, 2018, 10(8), 150-156. ISSN: 0975-413X, I.F.: 0.38).
3. Reena Kaushik, **Mahesh Chand**, Mohd. Rashid and Subhash C. Jain, Synthesis of Novel 2-Acetamidothiazoles Tethered with 1,2,3-Triazole and Pyridine Pharmacophores. Heteroatom Chemistry, 2018, accepted. Article ID:HC21447, Article DOI: 10.1002/hc.21447, Internal Article ID: 16070504. ISSN: 1042-7163, I.F.: 1.137).
4. **Mahesh Chand**, Solvent Free Synthesis of Biscoumarin. Archive Journal of Organic and Inorganic Chemical Sciences, 2018, 1-4. (ISSN: 2150-3494).
5. Reena Kaushik, **Mahesh Chand** and Subhash C Jain, Synthesis and antimicrobial evaluation of nitrogen containing novel heterocyclic Chalcones. Synthetic Communication, 2018, 48(11), 1308-1315. ISSN: 0039-7911 (print); 1532-2432 (web), I.F.: 1.377).
6. Mohd. Rashid, **Mahesh Chand** and Archana Gupta, Benzoxazine: A Biological Study of Benzoxazine and Their Derivatives. Heterocyclic Letters, 2018, 8(2), 477-485. accepted. (ISSN: 2230 – 9632, I.F.: 3.83).
7. **Mahesh Chand**, Archana Gupta and Subhash C. Jain, Antimicrobial activities of quinazolinone and their Derivatives: a review. Heterocyclic Letters, 2017, 7, 1, 201-214. (ISSN: 2230 – 9632, I.F.: 3.83).
8. **Mahesh Chand**, Archana Gupta and Subhash C. Jain, Biological profile of coumarins (7-hydroxy-4-methyl-2H-benzopyran-2-ones). Heterocyclic Letters, 2017, 7(1), 215-230. (ISSN: 2230–9632, I.F.: 3.83).
9. Khushbu Kushwaha, Nagendra Kumar Kaushik, Neha Kaushik, Eun ha Choi, **Mahesh Chand** and Subhash C. Jain, Design, Synthesis and Anticancer Activity of Aminoalkylated Azaphenothiazines. Bioorganic & Medicinal Chemistry Letters, 2016, 26(9), 2237–2244. (ISSN: 0960-894X, I.F.: 2.486).

10. Reena Kaushik, Khushbu Kushwaha, **Mahesh Chand**, Monika Vashist and Subhash C Jain, Design and Synthesis of 2,5-disubstituted-1,3,4-oxadiazole hybrids bearing pyridine and 1,2,3-triazole pharmacophores. *Journal of Heterocyclic Chemistry*, 2016, 54, 1042–1047. (ISSN: 1943-5193, I.F.: 0.685).
11. Donatella Verbanac, Ritu Malik, **Mahesh Chand**, Khushbu Kushwaha, Monika Vashist, Mario Matijašić, Višnja Stepanić, Mihaela Perić, Hana Čipčić Paljetak, Luciano Saso and Subhash C Jain, Synthesis and biological profiling of novel 2-phenyl-quinoline analogues derivatized at position 4 with aromatically substituted 4H-1,2,4-triazoles. *Journal Of Enzyme Inhibition And Medicinal Chemistry*, 2016, 31, 104-110. (ISSN: 1475-6366-6374, I.F.: 2.50).
12. Khushbu Kushwaha, Monika, **Mahesh Chand** and Subhash C. Jain, CuI catalyzed highly efficient regioselective one pot synthesis of 1,4-disubstituted-1,2,3-triazolyl pyridines. *Journal of Heterocyclic Chemistry*, 2015, 53, 1106-1110. (ISSN: 1943-5193, I.F.: 0.685).
13. Siva S. Panda, **Mahesh Chand**, Rajeev Sakhuja and Subhash C. Jain, Xanthoness as potential antioxidants. *Current Medicinal Chemistry*, 2013, 20(36), 4481-4507. (ISSN: 0929-8673, I.F.: 3.455).
14. Donatella Verbanac, Subhash C Jain, Nidhi Jain, **Mahesh Chand**, Hana cipcic Paljetak, Mario Matijašić, Mihaela Peric, Višnja Stepanic and Luciano Saso, An efficient and convenient microwave-assisted chemical synthesis of (thio)xanthoness with additional in vitro and in silico characterization. *Bioorganic & Medicinal Chemistry*, 2012, 20, 10, 3180-3185. (ISSN: 0968-0896, I.F.: 2.923).
15. Siva S. Panda, Ritu Malik, **Mahesh Chand** and Subhash C Jain, Synthesis and antimicrobial activity of some new 4-triazolylmethoxy-2H-chromen-2-one derivatives. *Medicinal Chemistry Research*, 2012, 21, 3750-3756. (ISSN: 1054-2523, I.F.: 1.436).

Seminar/Workshop/Conferences Presentation/Organisation

1. Arathy Ramachandran, Khader Valli Rupanagudi, Pankaj Khanna, **Mahesh Chand**, Subhash C. Jain, Hema Saranya Ilamathi, Suman S. Thakur and Vijayalakshmi Ravindranath, HEPATIC LIPOPROTEIN RECEPTOR RELATED PROTEIN MODULATORS AS POTENTIAL THERAPEUTICS FOR ALZHEIMER'S DISEASE, *Alzheimer's and Dementia*, July 2019, 15(7):P27, (Impact factor 14.423).
2. **Invited talk by IIMT UNIVERSITY MEERUT on Natural Products: Essential Resources for Drug Discovery, on 12 March, 2021.**
3. International Virtual Conference on "Role of Technology in the Era of Covid-19 for Education" By MIET Kumaon, Uttarakhand, May 2020.
4. "Webinar on Nanoscience and Nanotechnology in the Present Scenario" in the School of Physical Sciences and Special Centre for Nano Sciences, JNU, New Delhi, June, 2020.
5. "विज्ञान एवं प्रौद्योगिकी में निदर्शन, इष्टमीकरण एवं अभिकलन में तकनीकी शब्दावली का अनुप्रयोग" ("Applications of Technical Terminology in Modeling, Optimization and Computing in Science and Technology") organized in association with Commission for Scientific and Technical Terminology, Ministry of Human Resource Development (MHRD) at SRM Institute of Science and Technology, Delhi-NCR Campus, Modinagar, Ghaziabad (UP) from 26-28 April 2019.
6. **Oral presentation** on "Synthesis of some novel antimicrobials: spiro-indoles & bis spiro-indoles" International Conference on Recent Advances in Chemical Sciences (Novel Molecules for Diagnosis and Therapeutics) on 24-26 February, 2013 held in Department of Chemistry, Arya P.G. College, Panipat (Haryana).
7. **Oral presentation** on "Synthesis and biological evaluation of symmetrical & unsymmetrical bis spiro-indoles" in Indian Council of Chemists XXIX Annual Conferences, 19-21 December, 2010 held in Department of Chemistry, Panjab University, Chandigarh.
8. **Oral presentation** on "A facile synthesis of symmetrical bis spiro-indoles of biological interest" in National Seminar on Chemistry-Biology interface; Recent trends, 28-30 October, 2010 held at Govt. Department of Chemistry, P.G. College, Ranikhet, Uttarakhand.

9. **Poster presentation** on “Synthesis of novel pharmacophores for the discovery of drug candidates” in "6th National Seminar New Paradigm in Chemical Sciences-2014 (NPICS-2014)" on 13th February, 2014, Department of Chemistry, Punjabi University, Patiala, Punjab.
10. **Poster presentation** on “Synthesis of novel pharmacophores for the discovery of drug candidates” in Emerging Trends in Development of Drugs and Devices (ETDDD) on 21- 23 January, 2013 held at Department of Chemistry, University of Delhi, Delhi, India.
11. **Poster presentation** on “Synthesis of some biologically active compounds via green chemistry” in International Conference on Interface between Chemistry and Environment to be held on 13th & 14th December 2012 held at Ramjas College, University of Delhi, Delhi, India.
12. **Poster presentation** on “Aqua mediated synthesis of pharmacologically active compounds” in Healthcare India-2012, 20-23 February, 2012, New Delhi, India.
13. **Poster presentation** on “Design and synthesis of spiro[indole-thiazolidine] spiro[indole-pyrans] as antimicrobial agents” 10-13 December, 2011, in 3rd International Conference on Heterocyclic Chemistry, held at Department of Chemistry, University of Rajasthan, Jaipur, India.
14. **Poster presentation** on “An economical and ecofriendly synthesis of 2-arylbenzimidazoles” in National Conference in Emerging Trends in Chemistry-Biology Interface, ETCBI-2011, 3-5 November, 2011, held in Department of Chemistry, D.S.B. Campus, Kumaun University, Nainital, India.
15. **Poster presentation** on “New triterpenoids from wood rotting fungi” in 7th Indo-Italian Workshop on “Chemistry and Biology of Antioxidants” 16th November, 2010 held at Department of Chemistry, University of Delhi, Delhi.
16. **Poster presentation** on “Green Chemistry and Natural Products” in 4th Indo-Italian Seminar at the Department of Chemistry, University of Delhi, Delhi on 17th November, 2010.
17. CONIAPS conferences in IBS, Agra in 2007.
18. ICC conference in Mumbai in 2006.

Awards & Distinctions

- Awarded Senior Research Fellowship (SRF) by UGC, May, 2012.
- Qualified Junior Research Fellowship (JRF) conducted by CSIR-UGC, June, 2008.
- Qualified National Eligibility Test (NET) for lectureship conducted by CSIR-UGC, June, 2008.
- Awarded RGNF (Rajiv Gandhi National Fellowship) for M.Phil. 2005-06.

Public Service/ University Service/ Consulting Activity

- **REVIEWER CERTIFICATE BY JOURNAL OF HETEROCYCLIC CHEMISTRY.**
- Two years diploma in N.S.S. from C.C.S. University, Meerut.
- Participate in AIDS talk phase II under C.C.S. University, Meerut.

Professional Societies Memberships

- Life Member of Asian Polymer Association, Delhi.
- Life Member of Indian Council of Chemist, Agra.

Projects (Major Grants / Collaborations)

- Department of Chemistry DU, Delhi and IISc Bangalore Collaborated Research since March, 2014 to date on Natural Products

Other Details

- DTP Computer course from NCETC, Meerut, 2002.
- PGDCA from SISI in PPDC, Meerut, 2005.
- **INSTRUMENTS HANDLED**
 - UV-VIS Spectrometer,

- IR Spectrometer (FTIR),
- High Performance Thin Layer Chromatography (HPTLC)
- High Performance Liquid Chromatography (HPLC)
- 300 MHz NMR (Bruker) and 400 MHz NMR (JEOL) (1H- & 13C-NMR experiments)
- Commercial Microwave

Specialization: Organic and Bio-organic Chemistry.

Research Interests:

- Design and multi-step synthesis of various biologically active natural products starting from a simple molecule.
- Development of new methodologies to construct novel heterocycles.
- Isolation, purification and structural elucidation of biologically active natural products of plant and marine origin even in small amounts.
- Design and development of new eco-friendly strategies for the synthesis of novel heterocycles of medicinal, agricultural and industrial importance.
- Efficient problem solving capabilities in synthetic process, and ability to handle milligram to multi-gram scale reactions.
- Worked on various techniques such as HPLC, HPTLC, GC, NMR, UV, IR and MS.
- Competent in using chemistry related software (Chem.-draw, ISIS draw, NMR processing software (JEOL) and MS word, Excel & Power point.
- Experience of evaluation for antimicrobial and antioxidant activities *in vitro*.
- Ability to work interactively within multi-functional disciplinary teams