

Dr. Sweta Mishra

Personal Details

Address: B-702, Jyoti Super Gardenia, Ahinsa Khand II,
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Date of Birth: 18-12-1984

Languages Known: Hindi and English

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Work Experience

Senior Associate

Saikrishna & Associates

4th Dec 2019-Present

I am currently in the role of Senior associate taking following responsibilities:

- Providing technical support in Patent litigation, contentious matters and revocation
- Handling opposition matters, drafting of pre-grant, post grant WS, reply and rejoinder
- Drafting FER response
- Performing infringement clearance analysis, claim mapping of Markush based on literal and DOE infringement
- Patent search and analytics: performing Patentability, FTO and Landscape searches
- Delivering summaries and final reports to company clients
- Handling projects having broad range of technologies with expertise in pharmaceuticals, chemical structures, cosmeceuticals, agrochemicals, drug delivery and medicinal chemistry

Senior Associate

**Khurana & Khurana, Advocates
and IP Attorneys**

17th June 2019-17th Nov 2019

- Conducted patent and literature searches on patent and non-patent databases according to the project need, writing opinions
- Performed patentability, invalidity and landscape search and analysis
- Delivered summaries and final reports to company clients.
- Annuities and fee related search for different jurisdiction
- Handled projects having broad range of technologies with expertise in pharmaceuticals, chemical structures, cosmeceuticals, drug delivery and medicinal chemistry
- Hands on experience in patent and non-patent databases such as Derwent Innovation and structure based patent databases such as STN, surechem, pubchem etc.

Senior Technical Associate

Clairvolex IP Solutions Pvt. Ltd

18th Dec 2017- 10th May 2019

Awards and Credits

- CSIR-UGC (NET) JRF and SRF, Doctoral fellowship, (All India rank 353), 2009
 - GATE, 2008
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Ph.D. Thesis Title and Synopsis

Title

Chemically modified graphenes and fullerenes in the synthesis of porphyrinoids, nano-composites and their non-covalent interactions

Result

Modification of graphene and fullerene and their utilization in the field of catalysis and nano-composites formation showing a greener method and promising materials for future

Research Highlights

- Multistep organic synthesis and their monitoring by TLC milligram to multigram scale
 - Designing and developing methodologies for synthesis of small bioactive compounds (chalcone & flavones) as well as formation macromolecules (phthalocyanines, benzoporphyrins, expanded porphyrins etc.)
 - Experimental hand over Knoevenagel Condensation, Aldol-Michael-oxidation, 1,3-dipolar addition, Template directed synthesis, Binding constant
 - Purification of compounds by preparative TLC, Liquid Column Chromatography, Flash Chromatography and Crystallization
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List of Publications

1. **Mishra, S.**, Gautam, R., Milhotra, A., Nagpal, R., Kumari, P. Challenges with Mosquito-borne Viral Diseases: An outbreak of the Monster, **Curr. Top. Med. Chem.**, (Accepted)
2. **Mishra, S.**, Arora, S., Nagpal, R., Chauhan, S. M.S., Guanidino-graphene catalyzed synthesis of flavones via Aldol-Michael-oxidation **J. Nanosci. Nanotech**, **2017**, 17, 2525-2530.
3. **Mishra, S.**, Arora, S., Nagpal, R., Chauhan, S. M.S., Sulfonated graphene- an efficient cationic dye adsorbent in aqueous solution. **Advanced material proceedings**, **2016**, xx, xxxx.
4. **Mishra, S.**, Arora, S., Nagpal, R., Chauhan, S. M.S. Sulfonated graphenes catalyzed synthesis of porphyrins and expanded porphyrins and their non-covalent interactions with exfoliated graphene, **J. Chem. Sci.** **2014**, 126, 1729-1736.
5. **Mishra, S.**, Chauhan, S.M.S. Methods for the synthesis of symmetrical and unsymmetrical benzoporphyrins (A review) **Scholars Academic Journal of Biosciences**, **2014**, 2(4):255-261.
6. **Mishra, S.**, Chauhan, S.M.S. Use of graphite oxide and graphene oxide as catalysts in the synthesis of dipyrromethane and calix[4]pyrrole, **Molecules**, **2011**, 16, 7256-7266.

Poster presentation and participation in Conferences/Symposia

International–1 & National–4

Other research Projects

- Development of organic receptor as smart polymeric molecule for electrochemical sensing of 5-Fluorouracil, BHU, Varanasi
- Modulation of Lactate Dehydrogenase by caffeine in Rat Liver during hyperammonemia, BHU, Varanasi

Extracurricular Activities

- Faculty Development Programme organized by NITTTR, Chandigarh and HMRITM, ISTE
 - Author workshop conducted by Springer-University of Delhi, Library System
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Analytical and Computational Skills

Techniques: Familiar in analyzing and interpreting the data acquired from UV-Visible, fluorescence, FT-IR, ^1H , ^{13}C NMR spectroscopy, HPLC, Raman spectrophotometer, powder X-Ray Diffraction, Mass spectrometry, Ultrasonication, Scanning Electron Microscopy, Transmission Electron Microscopy

Software: Chemdraw, MS-office, Origin, NMR processing software (delta-JEOL), Scifinder
