

Dr. Sweta Mishra

Personal Details

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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 PS and CS, 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

Clairvortex IP Solutions Pvt. Ltd

18th Dec 2017- 10th May 2019

- Conducted IP related patent and literature searches on different patent and non-patent databases to provide comprehensive data to the client according to the project need.

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

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
