# Dr. Sweta Mishra

## **Personal Details**

Address: B-702, Jyoti Super Gardenia, Ahinsa Khand II,

Indirapuram, Ghaziabad-201014, India

Date of Birth: 18-12-1984

Languages Known: Hindi and English Email: sweta.chem19@gmail.com

Contact No: 7065203396

# **Work Experience**

Senior Associate Saikrishna & Associates 4<sup>th</sup> 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

17<sup>th</sup> June 2019-17<sup>th</sup> 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 18<sup>th</sup> Dec 2017- 10<sup>th</sup> 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.
- Performed patentability, validity, FTO and landscape searches, reviewed invention records, communicated with inventors, conducted prior art searches.
- Effectively utilized variety of patents, scientific databases and open source
- > Delivered summaries and final reports to company clients.
- ➤ 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, Questel Orbit, Patbase, IP.com and structure based patent databases such as STN, surechem, pubchem etc.

#### **Assistant Professor**

# PDM University

4th Sept 2017-15th Dec 2017

Graduation and post graduation courses of organic, inorganic theory and practical labs

#### **Assistant Professor**

# HMRITM, IP University

28th Sept 2015-24th July 2017

➤ B.Tech 1<sup>st</sup> year course of applied science theory and practical labs

## **Assistant Professor**

## **University of Delhi**

Sept 2013-May 2015

$\triangleright$	Lady Irwin College, DU (Adhoc)	5 <sup>th</sup> Jan 2015-4 <sup>th</sup> May 2015
$\triangleright$	Daulat Ram College, DU (Guest)	27 <sup>th</sup> Aug 2014-10 <sup>th</sup> Nov2014
$\triangleright$	Kirorimal College, DU (Guest)	18 <sup>th</sup> Jan 2014- 23 <sup>rd</sup> Apr 2014
	Kirorimal College, DU (Guest)	4 <sup>th</sup> Sep 2013- 9 <sup>th</sup> Nov 2013
$\triangleright$	Kalindi College, DU (Guest)	2 <sup>nd</sup> Jan 2013- 23 <sup>rd</sup> Apr 2014

Graduation and post graduation courses of organic, inorganic and physical chemistry theory and practical labs

# **Educational Profile**

Ph.D., Chemistry	2008- 2013	With <b>Prof. S.M.S. Chauhan</b> Department of Chemistry University of Delhi, Delhi
M.Sc., Chemistry	2008	Department of Chemistry Banaras Hindu University, Varanasi 8.37 CGPA
B.Sc., Chemistry	2006	Department of Chemistry Banaras Hindu University, Varanasi 78.5%
DL-101	2017	General course on IPR, WIPO

# **Awards and Credits**

- CSIR-UGC (NET) JRF and SRF, Doctoral fellowship, (All India rank 353), 2009
- ➤ GATE, 2008

# 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 nanocomposites 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

# **Analytical and Computational Skills**

**Techniques**: Familiar in analyzing and interpreting the data acquired from UV-Visible, fluorescence, FT-IR, <sup>1</sup>H, <sup>13</sup>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