Jatinder Kaur, M.Sc., Ph.D.

Present position

Associate Professor

Contact Details

**** 020-67656194

Work Experience

Teaching: 18 yearsResearch: 12 years

Course(s) Taught

- Organic Chemistry
- Analytical Chemistry
- Inorganic Chemistry
- Nuclear Chemistry
- Industrial Chemistry

Field of Specialization/Areas of Interests

- Organic Chemistry
- Coordination Chemistry

Education

• **Ph.D.** (Chemistry): 2015 to 2020

Title of the Thesis: "Synthesis, characterization and DNA cleaving activity of Ruthenium and

Copper complexes with aroylhydrazones"

University: Savitribai Phule Pune University Name of University

Year of Award: 2020

• Master of Science (Organic Chemistry): 2004

University/Institute: Fergusson College, Savitribai Phule Pune University, Pune

• Bachelor of Science (Chemistry): 2002

University/Institute: Nowrosjee Wadia College, Savitribai Phule Pune University, Pune

Member of College Committees/ Professional Bodies and Others

College Level

• College Development Committee

- Examination Committee
- Student Development Board
- Internal Committee
- NAAC, 4th Cycle, Criteria I

Others

BOS, Chemistry, Fergusson College

Employment History

Organization: Fergusson College

Role : Teacher
Duration : 2004 till date

Research Projects

Title of the Project	Name of Funding Agency	Amount (Rs)	Duration (Year) (From To)	Type (Minor/ Major)	Outcome
Nickel based bimetallic nano particles and their nano composites for C-C coupling	UGC- WRO	85000/-	2013-2015	Minor	Nanoparticles and their nanocomposite synthesized and investigated for Suzuki coupling
Synthesis of Aroyl Hydrazones and their Metal complexes and Evaluation of their anticancer activities.	BCUD	21000/-	2015-2017		Hydrazones synthesized and biological activity investigated Paper presentation in conference

Research Publications in National and International Journals

- 1. **Jatinder Kaur**, Madhura Damle, Hemant Mande, Prasanna Ghalsasi, Rajendra Kondedeshmukh, Parbati Bandyopadhyay, Rajeev Chikate. Ruthenium (II) complexes of aroylhydrazones: structural, electrochemical and electrostatic interactions with DNA. Journal of Coordination Chemistry 70(10), **2017**, 1667-1682. https://doi.org/10.1080/00958972.2017.1307344
- 2. **Jatinder Kaur**, Tanmayee Chikate, Parbati Bandyopadhyay, Soumya Basu, Rajeev Chikate. Cu (II) complexes of hydrazones–NSAID conjugates: synthesis, characterization and anticancer activity. Journal of Coordination Chemistry (Taylor Francis), 73 (23) **2020**, 3186–3202. https://doi.org/10.1080/00958972.2020.1843160
- 3. **Jatinder Kaur**, Parbati Sengupta, Samrat Mukhopadhyay. Critical Review of Bioadsorption on Modified Cellulose and Removal of Divalent Heavy Metals (Cd, Pb, and Cu) Industrial & Engineering Chemistry Research 61(5), **2022**, 1921-1954. https://doi.org/10.1021/acs.iecr.1c04583

Participation in Conferences/Symposia/Workshop:

- 1. Poster Presentation- "Mixed Ligand Ruthenium (II) complexes of aroylhydrazones, electrochemical and electrostatic interactions with DNA", International Conference at Abeda Inamdar College, Pune, India, January 2016.
- **2.** Poster Presentation "Synthesis and biological evaluation of hydrazone ligands and Ru (II) complexes as DNA cleaving agents" at 18th National Symposium at NIST Chandigarh, India, February 2016.
- **3.** Invited to participate in Resource Generation Camp for Chemistry, Olympiad HSC, HBCSE-TIFR, Mumbai, India, August 2017.

Events Organized/Coordinated:

Sr. No	Name of the Event	Name of organizing Institute/ College/ University	Nature of contribution	Dates
1.	Lab Management, Safety & Waste Treatment Workshop Under UGC Stride Component-I	Fergusson College (Autonomous), Pune	Organizer	8 th -13 th August 2022
2.	Hands on training programme" under DBT Star College Scheme	Fergusson College (Autonomous), Pune	Organizer	09 th -13 th March 2020
3.	Exhibition cum Poster Competition - To celebrate International Year of Periodic Table-IYPT 2019	Fergusson College (Autonomous), Pune	Organizer	21 st -22 nd August 2019
4.	Exhibition cum Poster Competition- Chemicon II Spectrospection	Fergusson College (Autonomous), Pune	Organizer	22 nd -23 nd December 2016
5.	Exhibition cum Poster Competition-Colors in Chemistry	Fergusson College (Autonomous), Pune	Organizer	16 th -17 th October 2015