

# **Dr Shuchi Kukreja**

Associate Professor, Department of Chemistry

Hindu College, Sonipat, Haryana

Email: [shuchikukreja74.org@gmail.com]

Phone: [7988121605]

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## **Professional Summary**

"As a dedicated Associate Professor at Hindu College, Sonipat, with 25 years of teaching experience, I am recognized for my extensive contributions to the field. I have published 4 books and 11 research papers, and I am committed to fostering academic excellence and advancing pedagogy in Chemistry."



## **Educational Qualifications**

- **Ph.D. in Chemistry**  
[University of Delhi, Delhi], [2008]
- **M.Sc. in Chemistry**  
[Kurukshetra University, Kurukshetra], [1996]
- **B.Sc. (Medical)**  
[Maharshi Dayanand University, Rohtak], [1994]

## **Academic Experience**

### **Associate Professor**

*Hindu College, Sonipat, Haryana*

*1998 – Present*

- Teaching undergraduate and postgraduate courses in Chemistry.
- Mentoring students for various competitive exams like HPSE, NET, JRF, GATE, etc.
- Delivering lectures and practical sessions in Organic Chemistry.
- Diligently engaged in administrative tasks and committee work.

## **Awards and Honours**

- Was conferred **The Best Student Award** for the year 1993-94 by Hindu Girls College Sonipat
- Awarded a **Teacher Fellowship** for completing a PhD under the Faculty Development Programme of UGC in October 2004

## **Responsibilities in the College**

### **Current:**

- Convener IQAC
- Convener Eco-Club
- Chief Editor of the college magazine 'PANKAJ'
- Convener Purchase Committee of the Chemistry department

### **Previous:**

- Worked as Public Information Officer For one year, w.e.f. Feb. 2023
- Member Anti Sexual Harassment Cell from 2018-2020
- Acted as a member of the Youth Red Cross Club from 2014-2016
- Acted as a member of Nari Samman Sanrakshan Prakosth from 2014-2016
- Acted as a member of Ravindra Niketan the Cultural Forum of the college from 2007-2009 & 2013-2018

## **Publications**

### **Books:**

1. **'Quizzical Insight to Chemistry'** (2023) - [Jyoti Prakashan]
2. **'Indian Wonder Herbs and Organic Compounds Within'** (2023) - [Jyoti Prakashan]
3. **'To the Point' Science Book for Young Minds'** (2023) - [Blue Duck Publication]

4. 'Vigyan Vimarsh' (2023) - [Jyoti Prakashan]

## Research Papers

### INTERNATIONAL JOURNALS:

1. **K<sub>2</sub>CO<sub>3</sub> Mediated Regioselective Synthesis of Isoxazoles and Pyrazolines** [Letters in Organic Chemistry, 3,135], 2006.
2. **One-Pot Synthesis of Novel Substituted Pyrrolo[2,3d]pyrimidines Using Dry Media** [Heteroatom Chemistry,18, 6] 2007.
3. **Microwave Accelerated Multicomponent Synthesis for a Novel Scaffold of Monastrol Analogues** [Letters in Organic Chemistry, 4,357],2007.
4. **Glycine promoted rapid synthesis of novel xanthene derivatives in ionic liquid** [The Canadian Journal of Chemistry,86],2007.
5. **One-pot Green Synthesis for Pyrimido [4,5 d] pyrimidine Derivatives** [Z. Naturforsch., 62b, 732], 2007.
6. **Copper-catalyzed ambient synthesis of functionalized 1,4-Dihydropyridines** [Journal of Integrated Science and Technology, 11(3), 528], 2023.
7. **An Ambient Protocol for polycyclic-1,4-Dihydropyridines Using a Heterogeneous catalyst** [International Journal for Multidisciplinary Research, 5(2)], 2023.
8. **A facile synthesis of Guanyl Hydrazones: Potent Advance Glycation End products (AGE) inhibitors** [Journal of Integrated Science and Technology, 11(3), 512], 2023.

### NATIONAL JOURNALS:

1. **Molecular iodine: A highly efficient catalyst for the regioselective synthesis of novel 1,2,4-triazepines** [Indian Journal of Chemistry, 55B, 585] 2016.
2. **An aqua-mediated facile synthesis of conformationally restricted polycyclic dihydropyridines** [Indian Journal of Chemistry,53B, 605] 2014.

3. **Environmentally benign approach to imidazole 2-thiones** [Indian Journal of Chemistry,46B,1549] 2007.

## **Research Interests**

- Green synthesis of bio-active moieties
- Molecular modeling
- Combinatorial Synthesis

## **Professional Memberships**

- Life member of the **Indian Council of Chemists**
- **Served as a** UG Board of Studies member, M D University, Rohtak for two years w.e.f. January 2011
- **Served as a** PG Board of Studies member, M D University, Rohtak for two years w.e.f. January 2021

## **Conferences and Workshops**

### **NATIONAL CONFERENCES:**

1. Presented a research paper **Titled – “Aqua mediated facile Synthesis for Conformationally Restricted polycyclic Dihydropyridines: Calcium channel modulators”** at the 6<sup>th</sup> National Conference on Thermodynamics of Chemical and Biological Systems NCTCBS-2011 Organised by the Department of Chemistry, Maharshi Dayanand University, Rohtak, Haryana, India from 2<sup>nd</sup> to 4<sup>th</sup> Nov. 2011.
2. Presented a poster **Titled “Aqua-mediated Green Synthesis for a Novel Scaffold of Polycyclic Dihydropyridines: Calcium channel modulators”** at the DBT-sponsored National Seminar on Recent Trends in Chemistry Organised by the Department of Chemistry Sri Venkateswara College (University of Delhi) Delhi from 20<sup>th</sup> to 22<sup>nd</sup> March 2012.
3. Presented a research paper Titled **“Green Synthesis for 1,4-Dihydropyridines”** at a National Conference on Global Challenges New

Frontiers in Chemical Sciences (GC: NFCS-2012) organized by the Department of Chemistry, Kurukshetra University, Kurukshetra, Haryana, India on 22<sup>nd</sup> & 23<sup>rd</sup> Sept. 2012.

4. Presented a research paper titled “**Microwave accelerated.....Guanyl Hydrazones**” at the 8<sup>th</sup> National Conference on Science & Technology for National Development: Opportunities & Challenges held at Arya Post Graduate College Panipat, Haryana, India on 28<sup>th</sup> Feb. 2023.

## **INTERNATIONAL CONFERENCES:**

1. Presented a research paper Titled “**Microwave Accelerated Multicomponent Synthesis for Novel Scaffold of Monastrol Analogues**” at a Two–Day International Conference on “New Trends in Chemical Research” (INCTR-2022) organized by S.U.S. Govt. College Matak Majari, Karnal, Haryana, India on 29<sup>th</sup> & 30<sup>th</sup> April 2022.
2. Presented a research paper Titled “**Copper Sulphate Pentahydrate: An efficient ..... Room Temperature**” at a Two–Day International Conference on “Advanced Developments in Chemistry and Allied Sciences 2023” (ADCR - 2023) organized by the Department of Chemistry, DCRUST Murthal, Sonipat, Haryana, India on 17 & 18 January 2023.
3. Presented a poster Titled “**Synthesis of Conformationally .....A Green Protocol**” in the 2<sup>nd</sup> International Conference of Indian Science Congress Association-Rohtak Chapter “Science & Technology for Sustainable Future” held at the University Institute of Engg. & Technology, M. D. University, Rohtak on February 7&8, 2024.
4. Presented a research paper Titled “**Fostering Experimentation & Innovation in Chemistry Education: Strategies for Encouragement and Implimentation**”.  
in a One–Day International Conference on “Importance of Education to Develop Scientific Temper” organized by the Department of Chemistry, Shaheed Udham Singh College, Matak Majri, Indri (Karnal) Haryana, India on 22<sup>nd</sup> March, 2024.

## Lectures Delivered

1. Delivered an **Extension Lecture on Stereo Chemistry** in Tika Ram PG Girls College on 10<sup>th</sup> Oct. 2011.
2. Delivered an **Extension Lecture on “Nuclear Magnetic Resonance (NMR) Spectroscopy”** in the **Chemistry department of Tika Ram PG Girls College** on 27<sup>th</sup> Mar. 2014.

## Skills

- Well-recognized and Refined Orator
- Motivational Speaker
- Event Organiser for quizzes, debates, declamations, poster making, essay writing, etc.

## Teaching Philosophy

My teaching philosophy is rooted in the belief that every student can excel and my role as an educator is to unlock that potential through clarity, engagement, and inclusivity. I am committed to simplifying complex chemical concepts, making them accessible and understandable to all students, regardless of their prior knowledge or background.

My approach to teaching is highly interactive and student-centred, utilizing a variety of teaching aids and the latest pedagogical techniques to create a dynamic and engaging learning environment. I skilfully incorporate technology to enhance learning, ensuring that my students are not only recipients of knowledge but active participants in the learning process.

I strive to create a classroom where every student feels valued and supported, recognizing that diversity in thought and experience enriches the learning experience for everyone. By fostering a collaborative and respectful atmosphere, I encourage students to express their ideas and learn from one another.

Ultimately, my goal is to inculcate a lifelong love of learning in my students, equipping them with the knowledge, skills, and confidence to succeed in their academic and professional endeavors.