



**BHAGINI NIVEDITA COLLEGE (UNIVERSITY OF DELHI)**  
**Kair, Near Najafgarh, New Delhi - 110043**  
**Faculty Details proforma for College Web-site**

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------|---------------|-------|------------|
| Title                                                                                                                                                                                                                                                                                                      | Dr.                                                                                                                                 | First Name         | Upendra Kumar                           | Last Name     | Patel | Photograph |
| Designation                                                                                                                                                                                                                                                                                                | Assistant Professor                                                                                                                 |                    |                                         |               |       |            |
| Address                                                                                                                                                                                                                                                                                                    | C/O Sanjeev Kumar, RZ 237 Block Gopal Nagar, Khaira More, Najafgarh New Delhi-110043                                                |                    |                                         |               |       |            |
| Phone No                                                                                                                                                                                                                                                                                                   | Office                                                                                                                              |                    |                                         |               |       |            |
|                                                                                                                                                                                                                                                                                                            | Residence                                                                                                                           | 7860192750         |                                         |               |       |            |
|                                                                                                                                                                                                                                                                                                            | Mobile                                                                                                                              |                    |                                         |               |       |            |
| Email                                                                                                                                                                                                                                                                                                      | <a href="mailto:ukpatel1090@gmail.com">ukpatel1090@gmail.com</a> , <a href="mailto:ukpatel1090@bhu.ac.in">ukpatel1090@bhu.ac.in</a> |                    |                                         |               |       |            |
| Web-Page                                                                                                                                                                                                                                                                                                   | <a href="https://www.linkedin.com/in/dr-upendra-kumar-patel-88983b283">linkedin.com/in/dr-upendra-kumar-patel-88983b283</a>         |                    |                                         |               |       |            |
| Educational Qualifications                                                                                                                                                                                                                                                                                 |                                                                                                                                     |                    |                                         |               |       |            |
| Degree                                                                                                                                                                                                                                                                                                     | Institution                                                                                                                         |                    |                                         |               | Year  |            |
| B.Sc.                                                                                                                                                                                                                                                                                                      | CSJM University Kanpur, Uttar Pradesh                                                                                               |                    |                                         |               | 2010  |            |
| M.Sc.                                                                                                                                                                                                                                                                                                      | University of Allahabad, Uttar Pradesh                                                                                              |                    |                                         |               | 2013  |            |
| Ph.D.                                                                                                                                                                                                                                                                                                      | Banaras Hindu University                                                                                                            |                    |                                         |               | 2025  |            |
| Career Profile                                                                                                                                                                                                                                                                                             |                                                                                                                                     |                    |                                         |               |       |            |
| Teaching Experience                                                                                                                                                                                                                                                                                        |                                                                                                                                     |                    |                                         |               |       |            |
| <ul style="list-style-type: none"> <li>➤ Bhagini Nivedita College (University of Delhi), January 2026-till date as Guest</li> <li>➤ Pt. Rishi Maharaj P.G. College (Kanpur University), April 2017-Dec. 2019 as Guest</li> </ul>                                                                           |                                                                                                                                     |                    |                                         |               |       |            |
| Administrative Assignments                                                                                                                                                                                                                                                                                 |                                                                                                                                     |                    |                                         |               |       |            |
| N/A                                                                                                                                                                                                                                                                                                        |                                                                                                                                     |                    |                                         |               |       |            |
| Areas of Interest / Specialization                                                                                                                                                                                                                                                                         |                                                                                                                                     |                    |                                         |               |       |            |
| <ul style="list-style-type: none"> <li>• Synthetic Organic Chemistry/Medicinal Chemistry</li> <li>• Drug Modification</li> <li>• Graphene oxide-based nanocatalyst-assisted Synthesis of small organic molecules</li> <li>• Heterocyclic Chemistry</li> <li>• Green Chemistry</li> <li>• Sc-XRD</li> </ul> |                                                                                                                                     |                    |                                         |               |       |            |
| Subjects Taught                                                                                                                                                                                                                                                                                            |                                                                                                                                     |                    |                                         |               |       |            |
| Organic, Inorganic, and Medicinal Chemistry                                                                                                                                                                                                                                                                |                                                                                                                                     |                    |                                         |               |       |            |
| Time table of the subjects taught during the current semester                                                                                                                                                                                                                                              |                                                                                                                                     |                    |                                         |               |       |            |
| S.No.                                                                                                                                                                                                                                                                                                      | Subject                                                                                                                             | Days               | Time                                    | Classroom     |       |            |
| 1.                                                                                                                                                                                                                                                                                                         | Fundamentals of Medicinal Chemistry                                                                                                 | Monday & Wednesday | 3:00 pm – 5:00 pm<br>11:00 am – 1:00 pm | Chemistry lab |       |            |
| 2.                                                                                                                                                                                                                                                                                                         | Molecules of Life                                                                                                                   | Monday & Wednesday | 9:00 am – 11:00 am<br>1:00 pm – 3:00 pm | Chemistry lab |       |            |
| 3.                                                                                                                                                                                                                                                                                                         | Catalysis and Photocatalysis                                                                                                        | Thursday           | 1:00 pm – 5:00 pm                       | Chemistry lab |       |            |
|                                                                                                                                                                                                                                                                                                            |                                                                                                                                     |                    |                                         |               |       |            |



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| Research Guidance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Informal assistance in Supervision of 3 Ph.D. students in Chemistry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Publications Profile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p><b>RESEARCH ARTICLES</b></p> <ol style="list-style-type: none"><li><b>Upendra Kumar Patel</b>, Shikha Thakur, Alka Agarwal, “Synthesis, antimalarial activity, and cytotoxicity of ethyl 4-oxocyclohexane-1-carboxylate-based 1,2,4,5-tetraoxanes: An in vitro and in silico-based analysis” <i>RSC Advances</i>, 2026, DOI: <a href="https://doi.org/10.1039/d6ra01699e">10.1039/d6ra01699e</a> (Accepted 22<sup>nd</sup> June 2026) (I.F. = 6.1)</li><li><b>Upendra Kumar Patel</b>, Alka, Punit Tiwari, Ragini Tilak, Gaurav Joshi, Roshan Kumar and Alka Agarwal “1,2,3-Triazole-tethered fluoroquinolone analogues with antibacterial potential: synthesis and in vitro cytotoxicity investigations” <i>RSC Advances</i>, 2025, 15, 1896–1914, DOI: <a href="https://doi.org/10.1039/D4RA08643K">10.1039/D4RA08643K</a> (I.F. = 6.1)</li><li>Alka, <b>Upendra Kumar Patel</b>, Alka Agarwal “Synthesis of nitrogen(N) and copper oxide (CuO) co-doped reduced graphene oxide as an efficient nanocatalyst for reduction of nitroarenes and synthesis of 1,8-dioxodecahydroacridine derivatives” <i>Diamond &amp; Related Materials</i>, 2025, 155, 112337, DOI: <a href="https://doi.org/10.1016/j.diamond.2025.112337">10.1016/j.diamond.2025.112337</a> (I.F. = 5.1)</li><li>Anand Maurya, <b>Upendra Kumar Patel</b>, Punit Tiwari, Ragini Tilak, Gaurav Joshi, Roshan Kumard and Alka Agarwal “Design and synthesis of new benzimidazole-hybrids as anti-microbial agents: Exploring the mechanistic insights as DNA gyrase inhibitors via in silico and in vitro based studies” <i>Journal of biomolecular structure &amp; dynamics</i>, 2025, 13, 1-20, DOI: <a href="https://doi.org/10.1080/07391102.2025.2501669">10.1080/07391102.2025.2501669</a> (I.F. = 2.7)</li><li><b>Upendra Kumar Patel</b>, Punit Tiwari, Ragini Tilak, Gaurav Joshi, Roshan Kumar and Alka Agarwal “Synthesis of ciprofloxacin-linked 1,2,3-triazole conjugates as potent antibacterial agents using click chemistry: exploring their function as DNA gyrase inhibitors via in silico- and in vitro-based studies” <i>RSC Advances</i>, 2024, 14, 17051–17070, DOI: <a href="https://doi.org/10.1039/D4RA01332H">10.1039/D4RA01332H</a> (I.F. = 6.1)</li><li>Anand Maurya, <b>Upendra Kumar Patel</b>, Sanjeev Kumar, and Alka Agarwal “Molybdenum trioxide as a newer diversified economic catalyst for the transformation of nitroarenes to arylamine and 5-substituted-1Htetrazole” <i>RSC Advances</i>, 2024, 14, 29505–29517, DOI: <a href="https://doi.org/10.1039/D4RA05443A">10.1039/D4RA05443A</a> (I.F. = 6.1)</li></ol> |



7. Alka, **Upendra Kumar Patel**, Alka Agarwal “Sustainable Design and Revolutionary Synthesis of Highly Recyclable Sulfonic Acid–Based Magnetic Nanoparticles as a Solid Acid for Synthesis of 2-Substituted Benzimidazole and Bis Indole Methane Derivatives” *Applied Organometallic Chemistry*, 2024, 39, 1-17, DOI: [10.1002/aoc.7861](https://doi.org/10.1002/aoc.7861) (I.F. = 3.7)
8. Alka Agarwal, Preeti Singh, Anand Maurya, **Upendra Kumar Patel**, Alka Singh, and Gopal Nath “Ciprofloxacin-Tethered 1,2,3-Triazole Conjugates: New Quinolone Family Compounds to Upgrade Our Antiquated Approach against Bacterial Infections” *ACS Omega*, 2022, 7, 2725–2736, DOI: [10.1021/acsomega.1c05303](https://doi.org/10.1021/acsomega.1c05303) (I.F. = 4.3)

**REVIEW:**

1. **Upendra Kumar Patel**, Alka, Alka Agarwal “Endoperoxides as Antimalarials: Development, Structural Diversity, and Pharmacodynamic Aspects of 1,2,4,5-Tetraoxane-Based Structural Scaffolds” *SynOpen* 2025, 9, 10–24, DOI: [10.1055/s-0043-1775432](https://doi.org/10.1055/s-0043-1775432) (I.F. = 2.0)
2. Alka, **Upendra Kumar Patel**, Alka Agarwal “Carbocatalytic Activity of Graphene Oxide in Organic Transformations: A Comprehensive Review” *ChemistrySelect*, 2025, 10, 1-31, DOI: [10.1002/slct.202501118](https://doi.org/10.1002/slct.202501118) (I.F. = 2.0)

**BOOK CHAPTER:**

Anand Maurya , **Upendra Kumar Patel** , Jitendra Kumar Yadav , Virender Pratap Singh , Alka Agarwal “Challenges and recent advances of novel chemical inhibitors in Medulloblastoma therapy” *Springer* [https://doi.org/10.1007/978-1-0716-1952-0\\_13](https://doi.org/10.1007/978-1-0716-1952-0_13)

**Publications in the Last one year**

1. **Upendra Kumar Patel**, Alka, Punit Tiwari, Ragini Tilak, Gaurav Joshi, Roshan Kumar and Alka Agarwal “1,2,3-Triazole-tethered fluoroquinolone analogues with antibacterial potential: synthesis and in vitro cytotoxicity investigations” *RSC Advances*, 2025, 15, 1896–1914, DOI: [10.1039/D4RA08643K](https://doi.org/10.1039/D4RA08643K) (I.F. = 6.1)
2. Alka, **Upendra Kumar Patel**, Alka Agarwal “Synthesis of nitrogen(N) and copper oxide (CuO) co-doped reduced graphene oxide as an efficient nanocatalyst for reduction of nitroarenes and synthesis of 1,8-dioxodecahydroacridine derivatives” *Diamond & Related Materials*, 2025, 155, 112337, DOI: [10.1016/j.diamond.2025.112337](https://doi.org/10.1016/j.diamond.2025.112337) (I.F. = 5.1)
3. Anand Maurya, **Upendra Kumar Patel**, Punit Tiwari, Ragini Tilak, Gaurav Joshi,



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| <p>Roshan Kumard and Alka Agarwal “Design and synthesis of new benzimidazole-hybrids as anti-microbial agents: Exploring the mechanistic insights as DNA gyrase inhibitors via <i>in silico</i> and <i>in vitro</i> based studies” <i>Journal of biomolecular structure &amp; dynamics</i>, 2025, 13, 1-20, DOI: <a href="https://doi.org/10.1080/07391102.2025.2501669">10.1080/07391102.2025.2501669</a> (I.F. = 2.7)</p> <p>4. <b>Upendra Kumar Patel</b>, Alka, Alka Agarwal “Endoperoxides as Antimalarials: Development, Structural Diversity, and Pharmacodynamic Aspects of 1,2,4,5-Tetraoxane-Based Structural Scaffolds” <i>SynOpen</i> 2025, 9, 10–24, DOI: <a href="https://doi.org/10.1055/s-0043-1775432">10.1055/s-0043-1775432</a> (I.F. = 2.0)</p> <p>5. Alka, <b>Upendra Kumar Patel</b>, Alka Agarwal “Carbocatalytic Activity of Graphene Oxide in Organic Transformations: A Comprehensive Review” <i>ChemistrySelect</i>, 2025, 10, 1-31, DOI: <a href="https://doi.org/10.1002/slct.202501118">10.1002/slct.202501118</a> (I.F. = 2.0)</p> |
| Conference Organization/ Presentations (in the last three years)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>1. Conference on “<b>Scientific Innovation for Human Wellbeing</b>” jointly organized by the Department of Chemistry, University of Delhi, Delhi, and The Indian Science Congress Association (ISCA) Delhi Chapter, on 17<sup>th</sup> March 2023 at the Department of Chemistry, University of Delhi, Delhi.</p> <p>2. Conference on “<b>Secrets of Getting Published in High-impact-factor Journals</b>” jointly organized by Banaras Hindu University, Varanasi &amp; Wiley on 22<sup>nd</sup> December 2023.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Research Projects (Major Grants/Research Collaboration)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Awards and Distinctions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"><li>➤ <b>2022:</b> Awarded <b>SRF</b> by CSIR-HRDG, India</li><li>➤ <b>2019:</b> Awarded NET (UGC-LS) by UGC, MHRD, India</li><li>➤ <b>2019:</b> Awarded GATE by IIT Kanpur, India (<b>score-335</b>)</li><li>➤ <b>2018:</b> Awarded <b>JRF</b> by UGC-MHRD, India</li><li>➤ <b>2018:</b> Awarded <b>JRF</b> by CSIR-HRDG, India (<b>rank-82</b>)</li><li>➤ <b>2017:</b> Awarded NET (UGC-LS) by UGC, MHRD, India</li><li>➤ <b>2016:</b> Awarded NET (CSIR-LS) by CSIR-HRDG, India (<b>rank-042/0755</b>).</li><li>➤ <b>2016:</b> Awarded NET (UGC-LS) by UGC, MHRD, India</li><li>➤ <b>2015:</b> Awarded NET (CSIR-LS) by CSIR-HRDG, India (<b>rank-049/0733</b>).</li><li>➤ <b>2015:</b> Awarded GATE by IIT Kanpur, India (<b>score-405</b>)</li></ul>                                                                                                                                                                                                                                                                       |



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|-----------------------------------------------------------------------------|
| Association With Professional Bodies                                        |
| <b><i>Reviewer in Journal of Molecular Structure &amp; RSC Advances</i></b> |
| Other Activities                                                            |
|                                                                             |

Signature of Faculty Member

- You are also requested to also give your complete resume as a DOC or PDF file to be attached as a link on your faculty page.