

CURRICULUM VITAE

Name : Dr. Harikesh Kumar
Designation : Assistant Professor (Chemistry)

Govt. RBR NES PG College
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Career Objective: Capable to adopt a challenging position in teaching and research development and responsible for ensuring that all students fully comprehended the taught curriculum and provided support to students who required extra guidance.

Skills and Abilities:

- Planned lessons which adhered to the objectives of the curriculum while utilizing a variety of teaching methodologies.
- Established positive relationships with students to facilitate learning.
- Used an effective teaching style to ensure students remained disciplined and attentive.
- Carbohydrate chemistry, organic synthesis, medicinal chemistry and experienced in performing multi-step organic synthesis from milligram to multi-gram scale.
- Well versed with modern/classical synthetic organic methods, reactions, functional group transformations, functional group protection/deprotection reactions, coupling cascade, functionalization via activation and in development of new methodology etc.
- Analytical skills.
- Adept in using general techniques for separation and purification of organic compounds.
- Skilled in interpretation of spectroscopic data, chemistry software, NMR data plotting and analysis using TOPSPIN, Microsoft Office, Reaxys and SciFinder.
- Capable of performing both collaborative and independent research in well organized and passionate manner.

Areas of Research Interest: Organic synthesis, Carbohydrate Chemistry, and Medicinal Chemistry.

Academic Qualifications:

- **Ph.D. in Chemistry: (2015-2020)** CSIR-Central Drug Research Institute, Lucknow, India (Jawaharlal Nehru University, New Delhi), **Thesis title:** "Design and synthetic studies towards carbohydrate based biodynamic molecules as anticancer agent"
- **Master of Science in Chemistry (2011-2013)** V.B.S. Purvanchal University Jaunpur, U.P.
- **Bachelor of Science in Chemistry (2008-2011)** V.B.S. Purvanchal University Jaunpur, U.P.
- **Intermediate (2006-2008)** Board of High School and Intermediate, U.P.
- **High School (2006)** Board of High School and Intermediate, U.P.

Additional Qualifications: Qualified GATE (2014, 2015, 2018, 2019, 2021)

CSIR-UGC NET: Qualified CSIR-UGC JRF/NET (June2014-JRF & December2014-JRF)

Teaching/Working Experiences: 1 Year

- **Undergraduate:** Organic Chemistry, Physical Chemistry theory and lab courses.
- **Postgraduate:** Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Photo Chemistry, Spectroscopy theory and lab courses.

FDP / Short Term Courses: Participated in one-week Online Faculty Development Programme on Chemical Sciences organized by Govt. Digvijay Autonomous P.G. College Rajnandgaon (C.G.), 8th Jun to 15th June 2022.

Seminar/Workshop/Training Participated:

International:

- Participated and presented a poster in “Sweet18 Glycochemistry, Biology and Technology (SGBT 2018)” at IISER Kolkata, 19th to 21th December 2018.
- Participated and presented a poster in “Emerging Chemistry and Biology of Carbohydrates (ECBC-2017)” at IIT Kharagpur, 18th to 20th December 2017.

Publications:

International:

- 1) Kumar, H.; Dubey, A.; Prajapati, G.; Kant, R.; Ampapathi, R. S.; Mandal, P. K. Regioselective direct sulfenylation of glycals using arylsulfonyl chlorides in the presence of triphenylphosphine: access to C2- thioaryl glycosides *New J. Chem.*, **2022**, *46*, 3426.
- 2) Kumar, H.; Prajapati, G.; Dubey, A.; Ampapathi, R. S.; Mandal, P. K. Intramolecular 6-*exo-dig* Post-Ugi Cyclization of N-Substituted 2-Alkynamides: Direct Access to Functionalized Morpholinone Glycoconjugates *Org. Lett.* **2020**, *22*, 23, 9258.
- 3) Kumar, H.; Mandal, P. K.; Synthetic routes toward pentasaccharide repeating unit corresponding to the O-antigen of *Escherichia coli* O181 *Tetrahedron Letters*, **2019**, *60*, 860.
- 4) Karki, G.; Kumar, H.; Rajana, R.; Mandal, P. K. Expedient Synthesis of a Tetrasaccharide Repeating Unit of the O-Antigen of *Escherichia coli* O163 *Synlett*, **2016**, *27*, 2581.
- 5) Karki, G.; Kumar, H.; Singh, G.; Ampapathi, R. S.; Mandal, P. K. Synthesis of the pentasaccharide moiety of starfish asterosaponin luidiaquinoside and its conformational analysis *RSC Adv.*, **2016**, *6*, 7736.

Prizes / Awards:

- Awarded with incentive awards for excellence in research publication at CSIR Central Drug Research Institute, Lucknow. **2021**
- Awarded Junior Research Fellowship from CSIR-UGC, New Delhi, Govt. of India. **2014**
(For pursuing doctoral study on the basis of qualifying Junior Research Fellowship)
- Awarded Senior Research Fellowship from CSIR-UGC, New Delhi, Govt. of India. **2017**
(For pursuing doctoral study)

Declaration

I hereby declare that all the information furnished above is true to the best of my Knowledge.