

## CURRICULUM-VITAE

1. Name and Designation : Dr. Krishna Nand Singh (FNA, FNASc)  
Senior Professor & Head  
JC Bose Grant (2025-2030)  
Prof. C.N.R. Rao Rotating Chair Professor  
  
h-index : 38 (25 Since 2020) Google Scholar  
i10-index : 95 (61 Since 2020)  
Citations : 5044 (2192 Since 2020)  
Research Webpage: [https://new.bhu.ac.in/Site/FacultyProfile/1\\_150?FA000117](https://new.bhu.ac.in/Site/FacultyProfile/1_150?FA000117)  
ORCID ID : 0000-0001-9147-5463
2. Institution & Address for Correspondence : Department of Chemistry  
Institute of Science  
Banaras Hindu University,  
Varanasi-221005, INDIA  
Mobile: 09415992580/ 7380543868  
E-mail: [knsingh@bhu.ac.in](mailto:knsingh@bhu.ac.in)  
[knsinghbhu@yahoo.co.in](mailto:knsinghbhu@yahoo.co.in)
3. Field of Specialization : Organic Chemistry
4. Date & Place of Birth : 12<sup>th</sup> June, 1962; Ghazipur, U. P., India
5. Nationality & Category : Indian; General
6. Sex & Marital Status : Male & Married
7. **Academic Qualifications** :
  - A throughout First-Class Career.
  - M. Sc. (Organic Chemistry), Banaras Hindu University, 1985.
  - Ph. D. (Organic Chemistry), Banaras Hindu University, 1991.
8. **Teaching Experience:** More than 31 Years (UG & PG both)
  - 18 July 2018 till date (Continuing): Senior Professor, Department of Chemistry, Institute of Science, BHU, Varanasi.
  - 30 October 2007 till 17 July 2018: Professor, Department of Chemistry, Institute of Science, BHU, Varanasi.
  - 09 July 2002 till 29 October 2007: Associate Professor/ Reader, Department of Applied Chemistry, Institute of Technology, BHU (Now IIT, BHU), Varanasi.
  - 09 July 1993 till 08 July 2002: Assistant Professor/ Lecturer, Department of Applied Chemistry, Institute of Technology, BHU (Now IIT, BHU), Varanasi.

9. **Research Experience:**

- Research Experience : 38 Years
- No. of Ph. D. Awarded : 22
- No. of Ph. D. students working under the Supervision : 07
- No. of Post-doctoral Fellows working under the Supervision : 02
- No. of Research Projects Completed : 15
- No. of Research Projects in Hand : 03

10. **Current Research Interests: Methodology Development in Organic Synthesis**

Coupling Reactions, C-H Activation, Decarboxylative Coupling, Photo-redox Catalysis, Electro-organic Synthesis.

11. **Awards, Fellowships & Recognitions:**

- Fellow of the Indian National Science Academy, New Delhi (2020) [Fellowship No.: P-21-1891]
- Fellow of the National Academy of Sciences, India (2016).
- JC Bose Research Grant (2025-2030).
- Chemical Research Society of India (CRSI) Silver Medal (2023).
- Chemical Research Society of India (CRSI) Bronze Medal (2018).
- Prof. C.N.R. Rao Rotating Chair Professor (2025-Onwards)
- Prof. C.N.R. Rao Education Foundation Award for Excellence in Research for the Session 2023-24.
- ISCB Award for Excellence in Chemical Sciences (2023).
- Vice-Chancellor's Award for Excellence in Research (2014).
- Invited Professor, Institute of Chemistry, University of Rennes, France (2004).
- AICTE Career Award (1995).
- 40th Professor TR Seshadri Memorial Lecture, Department of Chemistry, University of Delhi, 17th May 2022.
- Received Eighteen Major Research Projects as Principal Investigator from SERB(DST), CSIR, DBT, AICTE, and UGC New Delhi.
- Awarded Research Associateship (direct) of CSIR (1992).
- NET-JRF of both the UGC and CSIR (1985) separately for Ph.D. Programme.

12. **Publications:**

- Number of Research Papers Published : **170**
- Number of Research Papers Communicated : 02
- Book Chapters : 02
- Number of National/International Conferences Participated : 60

**13. Major Research Projects as Principal Investigator:**

| Sl. No. | Agency                     | Title                                                                                                                                        | Duration                             | Amount in Rs. (lakh) |
|---------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------|
| 1.      | ANRF, New Delhi            | Development of Some Novel Photochemical/ Electrochemical Protocols to Access Biologically Important Scaffolds                                | 03 November 2025 to 02 November 2030 | 125.0 lakh           |
| 1.      | CSIR, New Delhi            | Strategic use of photoredox/ electrochemical approach in organic synthesis                                                                   | 01 September 2023 to 31 August 2026  | 18.0 lakh            |
| 2.      | SERB, New Delhi            | Strategic use of visible light photo-redox catalysis to access some biologically relevant molecules                                          | 04 January 2023 to 03 January 2026   | 48.09992 lakh        |
| 3.      | Incentive under IoE Scheme | Development of Novel and Eco-compatible Methodologies: Diversity Oriented Synthesis of Biologically Relevant Hybrid Molecules                | 28 May 2021-27 May 2024              | 10.00 lakh           |
| 4.      | SERB, New Delhi            | Development of some novel photoredox/ electrochemical strategies for the synthesis of privileged molecular skeletons                         | February 2020- January 2023          | 56.078 lakh          |
| 5.      | CSIR, New Delhi            | Strategic Use of C-H Activation: Regioselective Arylation/Sulphenylation and Synthesis of Some Privileged Structures                         | April 2017- March 2020               | 24.00 lakh           |
| 6.      | SERB, New Delhi            | Synthesis of Privileged Molecular Scaffolds involving C-H Activation under Photoredox/Transition-metal Catalysis                             | 15 October 2016- 14 October 2019     | 52.096 lakh          |
| 7.      | DST, New Delhi             | Development of green synthetic strategies for C-H functionalization of some aromatic and heteroaromatic molecules under controlled microwave | June 2013-May 2016                   | 38.40 lakh           |
| 8.      | DBT, New Delhi             | Multicomponent Synthesis of Some Novel Biheterocyclic Medicinal Scaffolds under Controlled Microwave Irradiation                             | July 2011 to June 2014               | 19.40 lakh           |
| 9.      | UGC, New Delhi             | Microwave assisted multicomponent synthesis of some important bio-active heterocycles                                                        | July 01, 2011 to June 30, 2014       | 8.258 lakh           |
| 10.     | CSIR, New Delhi            | Microwave assisted palladium catalyzed organic reactions in ionic liquids                                                                    | Jan. 2010 to Dec. 2012               | 10.70 lakh           |
| 11.     | DBT, New Delhi             | Microwave assisted synthesis of some biologically active fused heterocycles                                                                  | Feb. 2008 to Jan. 2011               | 23.54 lakh           |
| 12.     | AICTE, New Delhi           | Utilization of Microwave Irradiation for the Synthesis of Some Pharmaceutically Important Organic Compounds                                  | Jan. 2008 to Dec. 2009               | 10.00 lakh           |
| 13.     | UGC, New Delhi             | Application of microwave irradiation for superoxide induced organic reactions                                                                | April 2007 to March 2010             | 6.88 lakh            |
| 14.     | CSIR, New Delhi            | Novel utilization of in situ generated superoxide ion in organic synthesis                                                                   | April 2004 to March 2007             | 7.25 lakh            |
| 15.     | AICTE, New Delhi           | Cytotoxicity: A probe into superoxide reactions with natural and bioactive molecules                                                         | May 2002 to April 2005               | 6.0 lakh             |

|     |                  |                                                                                              |                          |           |
|-----|------------------|----------------------------------------------------------------------------------------------|--------------------------|-----------|
| 16. | AICTE, New Delhi | Oxygen Toxicity: Some model reactions of in situ generated superoxide ion with xenobiotics   | May 1999 to April 2001   | 5.0 lakh  |
| 17. | AICTE, New Delhi | Phase transfer reaction of potassium superoxide with organic substrates (AICTE career Award) | April 1995 to March 1998 | 5.0 lakh  |
| 18. | CSIR, New Delhi  | Superoxide ion induced bio-mimetic transformations in organic synthesis                      | April 1995 to March 1998 | 3.25 lakh |

**14. Other Assignments & Membership of Academic Bodies:**

- Convenor, INSA Varanasi Local Chapter (01 April 2024 – 31 March 2027).
- Chairman, National Education Policy, Institute of Science, BHU, Varanasi
- Life Member (LM 352), Chemical Research Society of India, Bangalore, India.
- Life Member [F/5362 (LM)] (1999), Indian Chemical Society, Calcutta, India.
- Life Member (LM No. 1020), Association of Chemistry Teachers, India.
- Three-year Membership (2015-2018) in recognition of engagement with American Chemical Society.
- Convenor, INSA Varanasi Local Chapter

**15. Administrative and Other Assignments in Banaras Hindu University:**

- Convener, National Symposium on “Nanomaterials & Sustainable Synthetic Strategies” 21 & 22 March, 2015, Department of Chemistry, BHU, Varanasi.
- Coordinator, BHU Alumni Cell, BHU (November 2011 to April 2013).
- Organizing Secretary, International BHU Alumni Meet & Seminar on Mahamana's Vision of Nation Building, 23 & 24 December 2012 (In commemoration of the 150<sup>th</sup> birth anniversary year of Mahamana Malviya).
- Co-convenor, 15<sup>th</sup> CRSI National Symposium in Chemistry (NSE-15), February 1-3, 2013 and 7<sup>th</sup> CRSI-RSC Symposium in Chemistry, January 31, 2013, Department of Chemistry, Banaras Hindu University, Varanasi.
- Co-convenor, National Symposium on frontiers of Chemical Science Interfacing Physical and Biological Phenomena, February 28 & March 01, 2009.
- Coordinator, 8<sup>th</sup> Refresher Course in Chemistry, Academic Staff College, BHU, Varanasi, January 10-30, 2008.
- Coordinator, 1<sup>st</sup> Refresher Course in Chemical Sciences, Academic Staff College, BHU, Varanasi, March 11-31, 2012.
- Administrative Warden, Dalmia Hostel (July 2011 till 31 December 2020).
- Administrative Warden / Warden, Vishweswarayya Hostel and De Hostel, I.T. (Now IIT), B.H.U. (Feb. 2003 till 30 October 2007).
- Chairman, Football Committee, University Sports Board, B.H.U. (Session 2003-04 and 2004-05).