

# Curriculum Vitae

## **Dr. BALENDU SINGH**

M.Sc, B.Ed, Ph.D, GATE, CSIR –SRF (IIT KANPUR)  
Former:- Scientist, Uttar Pradesh Industrial Consultants LTD  
(A joint venture of Govt. of U.P, PICUP, UPSIDC, SIDBI, IFCI &  
Nationalized Bank)  
Research Scientist at Jubilant Chemsys Noida  
**Email:** balandusinghiitphd@gmail.com



Dr. B. Singh was born in Uttar Pradesh. He completed his B.Sc & M.Sc. in Chemistry from Kanpur University and subsequently joined Prof. H. Ila's research group in the **Department of Chemistry at IIT Kanpur**. Under the supervision of Prof. H. Ila, he completed his doctoral research. His research focused on the development of novel methodologies for the synthesis of Biologically active heteroaromatic compounds.

Following this, he worked as a **Research Scientist at Jubilant Chemsys Pharmaceutical Industries**, Noida, for approximately one year. He then joined **UPICO as a Scientist**, where he served for about five years.

In addition to his industrial experience, he devoted nearly five years to teaching and mentoring students for medical and IIT entrance examinations. Subsequently, he was selected as an **Assistant Professor in the Department of Chemistry through the Higher Education Services Commission**.

### **ACADEMIC APPOINTMENTS:**

- 30 Jan 2026 - Present Assistant Professor at Department of Chemistry B.S.N.V.P.G. College Lucknow.
- 04 June 2022 to 29 Jan 2026 – Assistant Professor, Department of Chemistry, N.A.S.(P.G) College, Meerut.
- 2021 to 2022 - **Assistant Professor** (Cont.) at HBTI/Kanpur.
- 2018 to 2021 - **Lecturer** at Medical Entrance Institute, Lucknow.
- 2014 to 2018 - **Lecturer** at IIT-JEE Entrance Institute, Lucknow.
- 2009 to 2014 - **Scientist** at Uttar Pradesh Industrial Consultant, Kanpur.
- 2008 to 2009 - **Research Scientist** at Jubilant Chemsys, Noida.



## ACADEMIC QUALIFICATIONS:

- Ph.D 2011 From Department of Chemistry, Indian Institute of Technology IIT/ Kanpur, Uttar Pradesh, India under the Supervision of Prof. H. Ila. Degree obtained by GBTU lucknow Uttar Pradesh.
- **Ph.D Thesis Title-** Development of new synthetic methods for biologically Important Hetero Aromatic Compounds.
- M.Sc. Chemistry From University of Kanpur year 2000.
- B.Ed From University of Kanpur 2001.
- B.Sc. From University of Kanpur year 1998.

## LIST OF PUBLICATIONS :

1. Heteroannulation of Nitroketene N.S- arylaminoareals with POCl<sub>3</sub>: A Novel Highly Regioselective Synthesis of Unsymmetrical 2,3- Substituted Quinoxalines, Venkatesh C., **B. Singh**, Mahata P.K., Ila H., Junjappa H. Org. Lett., 2005,7, 2169. Published by **American chemical society (ACS)**
2. Dipolar Cycloaddition of Ethylisocynoacetate to 3-Chloro-2-(Methylthio)/2-(Methylsulfonyl) Quinoxalines: Highly Regio-and Chemoselective Synthesis of Substituted Imidazo [1.5-a]quinoxaline-3-carboxylates, Sundaram, G.S.M., **B. Singh**., Venkatesh C., Ila H., Junjappa, H.J. Org.Chem.2007, 72, 5020. Published by **American chemical society (ACS)**
3. (Methyldithiocarbonyl)Imidazoleas Thiocarbonyl Transfer Regent: A Facile One-Pot three-Component Synthesis of novel 2,5-substituted-5aryl-l-oxo-3-thioxo-1,2,3,5,11a-hexahydro-6H-imidazo-[1.5-b]-Beeta-carbolines, **Balendu Singh**, Sundaram G.S.M., Misra N.C., Ila H., Junjappa H., Tetrahedron Lett., 2009, 50 , 366. Published by Elsevier Science Direct platform
4. Highly Regioselective route to substituted Imidazo [1.2-a] quinoxalines, **Balendu Singh**, Hiriyakkanavar Ila, Letters in Organic Chemistry, 15(5)441-446, 2018 Letter in organic chemistry15(5)441-446,2018. Published by Bentham Science.
5. Green Synthesis of Silver Nanoparticles (AgNPs) using dry Biomass of Green Alga Chlorella Ellipsoidea and their Photophysical, catalytic and Antibacterial Activity. **Dr. Balendu Singh\***, Dr. Ratna Shukla, Dr. Rashmi Dubey, Dr. Puroshottam Singh Niranjana, Vol. 21 No. 3 (2024): Journal of Advances and Scholarly Researches in Allied Education (JASRAE)



6. A novel regioselective route for the synthesis of Unsymmetrical 2,3 substituted quinoxalines through POCl mediated Heteroanulation of nitroketene N.S aryl amino acetals, **Balendu Singh**, Ila H., (manuscript under preparation).

**CONFERENCE/SYMPOSIUM/SEMINAR/EXPERT-LECTURE/  
WORKSHOP / PRESENTED/**

**PARTICIPATED/ATTENDED:**

- **National Symposium in Chemistry, CSIR-2004, IIT/KANPUR.**
- **Poster Presented in the INTERNATIONAL CONFERENCE on “Sustainable Green Chemical Technologies: Challenges & Opportunities” in CHEM-TECHNOVA 2024 (Co-Sponsor: American Chemical Society)**
- **Paper Presented An INTERNATIONAL CONFERENCE IC-ASTSDGS 11<sup>th</sup>-12<sup>th</sup> March 2024 on topic “Green Synthesis of Silver Nanoparticles (AgNPs) using dry Biomass of Green Alga Chlorella Ellipsoidea and their Photophysical, catalytic and Antibacterial Activity.”**
- **Actively Participated in NATIONAL SEMINOR on Quality Enhancement in Higher Education in dibrugarh, Assam.**
- **Actively Participated in INTELLECTUAL PROPERTY RIGHTS IN HIGHER EDUCATION ( NATIONAL WORKSHOP) 28 FEB,2025 (FRIDAY) GOVERNMENT P.G. COLLEGE U.S. NAGAR U.K.**
- **Actively Participated Synthesis of Biologically Relevant Hetrocycles from Basic Chemicals - 2021 at HARCOURT BUTLER TECHNICAL UNIVERSITY/ KANPUR.**
- **Actively Participated "Method Development for Carbon Heteroatom bond formation "2021 at HBTI/Kanpur**
- **Actively Participated Chemical Crystallography Aplications in Investigating the Novel Multi- Domain Crystalline Assemblies. at HBTI/Kanpur**



- Actively Participated The Re-Emergence of Phytomedicine for drug Discovery. At HBTI/Kanpur.
- Actively Participated Sustainability Innovations and Quality management with Special Relevance to Polymeric Products " at HBTI /Kanpur

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### **Professional Development:**

- **Faculty Induction Programme (FIP) / Orientation Programme** From **15 November 2023 to 19 December 2023** Organized by the UGC Human Resource Development Centre, Aligarh Muslim University awarded Grade A.
- **NATIONAL ONLINE REFRESHER COURSE IN CHEMISTRY: Future of Chemistry Education** under Malaviya Mission Teacher Training Programme (MMTTP) of University Grants Commission (UGC) organized by UGC-MMTTC (GAD-MMTTC), Sri Guru Tegh Bahadur Khalsa College, University of Delhi from 21st September to 05th October 2024. He/She has been awarded Grade A.
- Short Term Course on Sustainable Development and Environment Under **MALAVIYA MISSION TEACHER TRAINING CENTRE DEVI AHILYA VISHWAVIDYALAYA, INDORE (27-10-2025 to 01-11-2025) UGC-SPONSORED 2025-2026** obtained **A+ Grade**.
- UGC-Sponsored Short Term Programme on **Gender & Contemporary Issues** held during **5th March to 12th March 2025** in online-mode, conducted by **UGC-MMTIC (Formerly known as UGC-HRDC), Gauhati University** obtained grade **A**.

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### **RESEARCH INTERESTED AREA:**

- Green chemistry approaches for sustainable synthesis
- Development of new reactions and methodologies
- Asymmetric synthesis for chiral molecules
- Total synthesis of natural products and complex pharmaceuticals



### **RESEARCH EXPERIENCE (10 Year):**

- 5 Year Research Experience Under the Supervision of Prof. H. Ila, Department of Chemistry, **Indian Institute of Technology IIT /Kanpur.**
- 5 Year Research Experience in R & D Section at Upico and Jubilant Chemisys, Noida.

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### **Experimental and Analytical Skills:**

1. Interpretation of 1D ( <sup>1</sup>H-NMR, <sup>13</sup>C-NMR) and 2D-NMR
2. IR and Raman Spectroscopy
3. UV – Visible Spectroscopy
4. Mass Spectrometry
5. MS Office (MS word, Powerpoint, MS Excel, etc.)
6. Column Chromatography and Preparative TLC for the isolation of mixtures and recrystallization, Paper and Ion-exchange chromatography

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### **Administrative Services/Position at N.A.S.(P.G) College, Meerut:**

#### **Session 2022-23**

- Career Counselling Cell

#### **Session 2023-24**

- Career Counselling Cell

#### **Session 2024-25**

- Admission Committee (B.A. III Sem)
- Admission Committee (M.Sc. Ist Sem)
- Career Counselling Cell
- NEP Cell
- Skill Development Committee

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### **Awards/Fellowship:**

- **CSIR - SRF New Delhi 2006**
- **GATE 2003**



**M.Sc. Dissertation / Thesis Supervised: 09 Students**

1. HUZAIFA
2. NEHA
3. ZUBERIYA
4. TANU PAL
5. SHIVANI
6. DEEPA SINGH
7. YASH KUMAR
8. SHUBHAM SHARMA
9. HASAN RAZA

**Qualified Competitive Examination and Achievements**

- UPHESC (Uttar Pradesh Higher Education Service Commission Examination, 2022 for Assistant Professor)
- Uttar Pradesh Public Service Commission (UPPSC) 2013 PCS for MAINS

**References/Academic Supporters/Research Collaborators:**

***Prof.Dr. Hiriyakkanavar Ila,***  
***Retired Prof. Dept. Of Chemistry IIT Kanpur***  
*Ph.D. (FNA, FASc, CRSI Fellow-Gold Medal)*  
*Honorary Professor of Organic Chemistry*  
*New Chemistry Unit (NCU) Jawaharlal Nehru*  
*Centre for Advanced Scientific Research (JNCASR),*  
*Bengaluru, Karnataka, India-560064 E-mail: [hila@jncasr.ac.in](mailto:hila@jncasr.ac.in)*

***Prof. Dr. Debaprasad Mandal***  
***(HOD) Chemistry***  
***Indian Institute of Technology Ropar***  
*Cont. – 9417008480*

***Vikram Hans***  
***CMD Uttar Pradesh Industrial Consultant***



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