

CURRICULUM VITAE

PERSONAL

Name

ANURADHA SINGH
ORCID iD <https://orcid.org/0000-0002-8145-1369>
Scopus Author ID: 57226053562

Position

Assistant Professor (LEVEL 11; Date of eligibility: 03 Feb 2022)

Date of birth

12.02.1982

Address for
Correspondence

Department of Chemistry
S.S. KHANNA GIRLS' DEGREE COLLEGE
A Constituent college of University of Allahabad
Prayagraj, Uttar Pradesh 211003
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EDUCATIONAL

D. Phil.

2015, Chemistry, University of Allahabad
Thesis title: "Design and Synthesis of Antimicrobial Compounds & Studies on their Therapeutic Applications"

NET

2012, Chemical Sciences

M. Sc. **2005**, Chemistry
Government Science College (Autonomous) Rani Durgavati University, Jabalpur (MP)

B. Sc. **2003**, Chemistry, Zoology, Env.science
Government Science College (Autonomous) Rani Durgavati University, Jabalpur (MP)

Research Experience

2019-2023

PI, UGC Start-up Grant
Project Title: "**Design, green synthesis and anti-microbial evaluation of highly functionalised 4-thiazolidinone derivatives**"

2015 – 2018

PI, Women Scientist Scheme –A;
Department of Science and Technology, New Delhi

Project Title: "**Design and Development of Bi functional Reverse Transcriptase Inhibitors of HIV Replication and Their Enhanced Cellular Uptake Using Myristoylated Derivatives**"

2011 - 2012

JRF, DBT sponsored research project entitled "**Development of Folate-receptor Mediated System for Targeted Delivery of Curcumin in Cancer Cells**"

2010-2011

JRF, DBT-ICMR, New Delhi funded project entitled "**Design and Development of Antiviral Compounds as Inhibitors of HIV Replication**"

Techniques learnt

Solution phase synthesis of Heterocyclic compounds as anti-viral and anti- bacterial agents
Various techniques like TLC, Flash column chromatography, HPLC, gel electrophoresis, UV, IR and NMR.
Drug designing and development
Microbial Testing
ICT based teaching methodology

Teaching Experience

At the Department of Chemistry, SS Khanna Degree College
At undergraduate level
Topics: General Chemistry, Inorganic Chemistry, Organic Chemistry

At PG level

Topics:

- “Oligonucleotide Synthesis, Purification and Applications
- Synthetic approaches in organic synthesis
- Natural Product
- Spectroscopy
- Reagents
- Analytical Chemistry

Current areas of research

"The application of synthetic organic chemistry to problems in biology" is the central theme of my research interest which covers Bioorganic and Medicinal Chemistry and it involves the design and development of potential antiviral and antimicrobial agents against infectious diseases. Specific goals currently under investigation include the development of multifunctional anti-HIV, anti-HCV, anticancer and antibacterial agents.

Member of scientific bodies

Life Member, Indian Science Congress Association, Kolkata (L-9972)
Life Member, Vigyan Parishad, Allahabad (L-7662)

Awards / Fellowships

INSA Visiting Scientist (2023)
Indian National Science Academy
Bahadur Shah Zafar Marg, New Delhi-110 002

Research Excellence Award (2020)
Institute of Scholars; Bengaluru, Karnataka, India

Swarna Jayanti Puraskar (2014)
84th Annual session of National Academy of Sciences, Jodhpur

HIV symposium fellowship (2012)
YRG care, Chennai

Late M.H. Mahalaha memorial Gold medal (2005)
best presentation at seminar, RDVV, Jabalpur

Other credentials, significant contributions

- ❖ **Co-Investigator and Nodal officer: CURIE grant** Department of Science & Technology (DST), Government of India.
- ❖ **Convenor, SSK Institutions Innovation Council, Established under Ministry of Education (GoI).**

SSKGDC, established Institution's Innovation Council (SSK-IIC) as per the norms of the MHRD Innovation Cell (MIC) of Ministry of Human Resource Development, Government of India, to foster innovation and entrepreneurship among young students. SSK-IIC has been awarded '3.5 stars' in 2020-2021 and '4 stars' in 2021-2022 by the Ministry of Education and AICTE for its active participation in innovation and entrepreneurial activities on college campus.

Professional training

124th Orientation Programme; UGC Human Resource Development Centre, University of Allahabad (30.08.2019 to 19.09.2019)

UGC sponsored Five days Workshop on NAAC; UGC Human Resource Development Centre, University of Allahabad. (23.08.2021 to 27.08.2021).

Innovation Ambassador training (Foundation Level) MoE's Innovation Cell & AICTE (05.08.2021 to 21.08.2021).

DBT sponsored short term training course on "**Hands –on Techniques used in Biotechnology**" Centre of Biotechnology, University of Allahabad, Allahabad. (17.12.2018 to 01.01.2019)

Training Program on "**Academic Leadership and Education Management**" (Under the Scheme of PMMMNMTT, HRD Ministry, Govt. of India, New Delhi). (Sep 20-26, 2018).

Training Program on "**Academic Leadership and Education Management**" (Under the Scheme of PMMMNMTT, HRD Ministry, Govt. of India, New Delhi). (April 24-27, 2018).

FDP on "E-Content Development & Learning Management System"; GAD TLC, SGTB Khalsa College, University of Delhi under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD in collaboration with S.S. Khanna Girls' Degree College, Prayagraj. (22.08.2020 to 28.08.2020)

ONE WEEK ONLINE FDP "Development of Teacher's e-Kit and MOOCs in Four Quadrant Format of e-Content"; GAD TLC SGTB Khalsa College, University of Delhi under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD (12.09.2020 to 20.09.2020).

On Board of Referees

- To the journal "Medicinal Chemistry Research"
- To the journal "Journal of Enzyme Inhibition and Medicinal Chemistry"
- To the journal Current Topics in Medicinal Chemistry.
- To the journal "International Journal of basic and Applied Sciences"
- To the journal "Green Chemistry"

| Administrative responsibilities | | |
|--|-----------------------------|--|
| Session | Nature of assignment | Committee |
| From 2020- till date | Convener | Institution Innovation council under the guidelines of the Ministry Innovation Cell (MIC), Ministry of Education. |
| From 2018- till date | Incharge | College Website |
| From 2018- till date | Convener | UGC Sponsored Environmental Awareness Program |
| From 2020- till date | Member | UGC committee, IPR cell & Research cell |

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|----------------------|------------------------------|--|
| From 2019- till date | Core & Advisory board Member | DBT Star College Scheme |
| From 2018- till date | Member | B.Sc . Admission Committee |
| From 2018- 2020 | Proctor | Proctorial board |
| From 2018- till date | Member | Anti-ragging cell |
| From 2018- till date | Member | Vishakha internal complaints committee against sexual harassment |
| From 2018- till date | Member | Printing & Publication Committee |
| From 2018- till date | Member | Prize, Medal & Scholarship committee |
| From 2018- till date | Member | Eco Club |
| From 2018-2020 | Member | NAAC, Criterion 5 |
| From 2021- till date | Member | NAAC, Criterion 3 |

Publications

1. Singh, K., & Singh, A. (2024). Artificial intelligence in hematology: A critical perspective. *J Clin Exp Hematol*, 3(1), 60-66. DOI: [10.46439/hematol.3.020](https://doi.org/10.46439/hematol.3.020)
2. Singh, A. (2024). Artificial intelligence for drug repurposing against infectious diseases. *Artificial Intelligence Chemistry*, 2(2), 100071. <https://doi.org/10.1016/j.aichem.2024.100071> (Citation detail:06).
3. Singh, A. (2024). Herbal-based nutraceuticals in management of lifestyle diseases: experience from Indian population. *Future Integrative Medicine*, 3(2), 106-115. doi: [10.14218/FIM.2023.00055](https://doi.org/10.14218/FIM.2023.00055) (Citation detail:02).
4. Singh, Vishal K., Himani Chaurasia, Priyanka Kumari, Anup Som, Richa Mishra, Ritika Srivastava, Farha Naaz, **Anuradha Singh**, and Ramendra K. Singh. "Design, synthesis, and molecular dynamics simulation studies of quinoline derivatives as protease inhibitors against SARS-CoV-2." *Journal of Biomolecular Structure and Dynamics* (2021): 1-24.
5. Srivastava, Ritika, Sunil K. Gupta, Farha Naaz, Parth Sarthi Sen Gupta, Madhu Yadav, Vishal Kumar Singh, **Anuradha Singh** et al. "Alkylated benzimidazoles: Design, synthesis, docking, DFT analysis, ADMET property, molecular dynamics and activity against HIV and YFV." *Computational biology and chemistry* 89 (2020): 107400.
6. Madhu Yadav, Ritika Srivastava, Farha Naaz, **Anuradha Singh**, Rajesh Verma and Ramendra K. Singh (2018) *In silico* studies on new oxathiadiazoles as potential anti-HIV agents. *Gene Reports* DOI: [10.1016/j.genrep.2018.12.004](https://doi.org/10.1016/j.genrep.2018.12.004).
7. Ritika Srivastava, Sunil K. Gupta, Farha Naaz, **Anuradha Singh**, Vishal Kumar Singh, Satish Kumar Gupta, Dominique Schols and Ramendra K. Singh (2018) Alkylated benzimidazoles: Synthesis, docking, molecular dynamics and activity against HIV and yellow fever virus replication. *Comp. Biol. Chem.* 76, 1-16, <https://doi.org/10.1016/j.compbiolchem.2018.05.021>.
8. Farha Naaz, Ritika Srivastava, Vishal K. Singh, **Anuradha Singh**, Nidhi Singh, Rajesh Verma and Ramendra K. Singh (2018) Molecular modeling, synthesis, antibacterial and cytotoxicity evaluation of sulfonamide derivatives of benzimidazole, indazole, benzothiazole and thiazole. *Bioorg. Med. Chem.* 26, 3414-3424, <https://doi.org/10.1016/j.bmc.2018.05.015>.
9. **Anuradha Singh**, V. K. Singh, R. Verma and Ramendra K. Singh (2018) *In silico* studies on N-(pyridine-2-yl) thiobenzamides as NNRTIs against wild and mutant HIV-1 Strains. *Philippine Journal of Science*, 147(1), 37-46.
10. **Anuradha Singh**, R. Srivastava and Ramendra K. Singh (2017) Design, synthesis and antibacterial activity of novel heterocyclic arylsulphonamide derivatives. *Interdisciplinary Sciences: Computational Life Sciences*, DOI: [10.1007/s12539-016-0207-2](https://doi.org/10.1007/s12539-016-0207-2).
11. M. Yadav, **Anuradha Singh** and Ramendra K. Singh (2017) Docking studies on novel bisphenylbenzimidazoles (BPBIs) as non-nucleoside inhibitors of HIV-1 reverse transcriptase. *Ind. J. Chem. (B)*, 56B, 714-723.

12. Nidhi Singh, Ritika Srivastava, **Anuradha Singh** and Ramendra K. Singh (2016) Synthesis and photophysical studies on naphthalimide derived fluorophores as markers in drug delivery. *Journal of Fluorescence*, 26, 1431-1438; DOI: 10.1007/s10895-016-1835-y.
13. **Anuradha Singh**, M. Yadav, R. Srivastava, N. Singh, R. Kaur, S. K. Gupta and Ramendra K. Singh (2016) Design and anti-HIV activity of arylsulphonamides as non-nucleoside reverse transcriptase inhibitors. *Med. Chem. Res.* 25(12), 2842-2859; DOI: 10.1007/s00044-016-1707-7.
14. Anuradha Singh, Dipti Yadav, Madhu Yadav, Ashwini Dhamanage, Smita Kulkarni and Ramendra K. Singh (2015) Molecular modeling, synthesis and biological evaluation of *N*-heteroaryl compounds as reverse transcriptase inhibitors against HIV-1. *Chem Biol Drug Des*, 85, 336-447.
15. R Srivastava, N Singh, **Anuradha Singh**, Madhu Yadav and **Ramendra K. Singh** (2014) Computational studies on non-nucleoside analogues of pyrimidine as NNRTIs against HIV-1. *BMC Infectious Disease*, 14 (suppl 3) E3.
16. **Anuradha Singh**, M. Yadav, N Singh, R Srivastava, R Kaur, SK Gupta and Ramendra K. Singh (2014) Computational modelling, green synthesis and biological activity of arylsulfonilamides as NNRTIs against HIV-1. *BMC Infectious Disease*, 14 (suppl 3) E4.
17. **Anuradha Singh**, M Yadav, R Srivastava, N Singh, A Godse, R Suryawanshi, A Dhamanage, S Kulkarni and **Ramendra K. Singh** (2014) Design, synthesis and biological evaluation of *N*-heteroaryl compounds as probable NNRTIs against lab adapted strains and the primary isolates of HIV-1. *BMC Infectious Disease*, 14(suppl 3) E15.
18. **Anuradha Singh**, M Yadav, P Singh, R Srivastava, N Singh, R Verma and Ramendra K. Singh (2014) *N*-Heterocyclic analogues as peptide deformylase inhibitors: Molecular modelling and antibacterial evaluation. *BMC Infectious Disease*, 14 (suppl 3) E18.
19. D. Rai, G. Kumari, **Anuradha Singh** and Ramendra K Singh (2013) Curcumin Bioconjugates: Studies on Structure-Activity Relationship and Antibacterial Properties against clinically isolated strains. *Med. Chem.* 9, 999-1007.

Edited book

1. Recent Advances in Chemistry and its Impact on Society, Authors press; Printed in India at Thomson Press (India) Limited. ISBN 978-93-90155-90-3.
2. New Education Policy 2020: Concept Approaches and Challenges, Authors press; Printed in India at Thomson Press (India) Limited. ISBN 978-93-90588-04-6.
3. Sustainable Development in India: Issues and Challenges. Aastha Publication, Allahanad. ISBN 978-93-82718-24-6.
4. Sustainability Challenges & Transforming Opportunities: Amidst Covid 19 Authors press; Printed in India at Thomson Press (India) Limited. ISBN 978-93-90588-93-0

Chapter in a Book

1. **Anuradha Singh*** and Kavya Singh “EFFECTS OF PLANT-BASED FOODS AND THEIR NATURAL BIOACTIVE COMPOUNDS (NBCS) ON FATTY LIVER DISEASES: EFFECTS AND MECHANISM” (Chapter 9). In book: “**Nutritional and Health Benefits of medical Plants and bioactive Compounds**” Edited by Dr. Ajeet Singh and Dr. Navneet Bithel). Apple Academic press, Inc. USA. ISBN: 9781779520050. <https://www.appleacademicpress.com/therapeutic-role-of-phytochemicals-and-nutraceuticals-/9781779520050>. **Pub Date:** Forthcoming February 2025.
2. **Anuradha Singh** “TECHNIQUES AND EXTRACTION METHODS OF PLANT BASED BIOACTIVE COMPOUNDS” (Chapter 6). In book: “**Recent Trends in Functional Foods and Nutraceuticals**” Edited by Dr. Ajeet Singh and Dr. Navneet Bithel). Apple Academic press, Inc. USA. ISBN: 9781779520074. <https://www.appleacademicpress.com/recent-trends-in-functional-foods-and-nutraceuticals-/9781779520074>. **Pub Date:** Forthcoming February 2025.
3. **Anuradha Singh** “ROLE OF INDIAN SPICES IN THE MANAGEMENT OF EMERGING VIRAL INFECTIONS” (Chapter 1); In book series: “**The Chemistry inside Spices and Herbs: Research and Development**” (VOLUME-4); Edited by Pankaj Kumar Chaurasia, Shashi Lata Bharati & Sunita Singh; (Pg.No. 1-17); Banthem Science Publishers Pvt. LTD. (2024). (DOI: 10.2174/97898151968321240401 eISBN: 978-981-5196-83-2, 2024 ISBN: 978-981-5196-84-9 ISSN: 3041-0967 (Print) ISSN: 3041-0932 (Online)).
4. **Anuradha Singh** “CLAY AS A DRUG CARRIER IN THE PHARMACEUTICAL INDUSTRY” (Chapter 8); In book: “Characterization and Application of Clay as a Novel Material” Edited by Neeraj Kumar & Chandra Mohan (Page 150-157); Cambridge Scholars Publishers. (Sep, 2023); ISBN: 1-5275-1699-7. (<https://www.cambridgescholars.com/product/978-1-5275-1699-1>.)
5. **Anuradha Singh** “APPLICATION OF MICROWAVE HEATING IN CHEMICAL SYNTHESIS: A SUSTAINABLE APPROACH” (Chapter 6); In book: Electromagnetic radiation. Importance and Application. (Edited by Devendra Awasthi and Poonam Shukla) (Page 61-70) Series: LAP Lambert Academic Publishing. (2023) ISBN: 978-620-45539-3.
6. **Anuradha Singh** “REALIZING THE VISION: UNVEILING BEST PRACTICES FOR THE EFFECTIVE IMPLEMENTATION OF NEP 2020” National Webinar on “Challenges of implementation of National Education Policy – 2020” (Seminar proceeding).
7. **Anuradha Singh*** Kavya Singh and Swastika Singh **Green Solvents for Sustainable Organic Synthesis: An Overview (Chapter-5)**, In book “Green Chemistry for the Development of Eco-Friendly Products” Edited by [Kavita Shakya Chahal](#) and Twinkle Solanki; IGI Global (International Publisher) ISBN 9781799898511; Pg. No. 104-128; DOI: [10.4018/978-1-7998-9851-1.ch005](https://doi.org/10.4018/978-1-7998-9851-1.ch005); Indexed In: SCOPUS.
8. **Anuradha Singh*** and Kavya Singh, **The Contribution of Ancient Indian Chemists to Chemical Sciences (Chapter 67); In Book** “Science and Technology in Ancient India” Edited by Dr Pradeep Kumar Keserwani; Pg. No. 352-361; Raka prakashan-Prayagraj (National) ISBN No. 978-93-90964-22-2.
9. V. K. Singh, Ajeet Singh and **Anuradha Singh**; Chapter 11: PLANTS BASED DRUG DISCOVERY UPDATE FOR ANTI-HIV DISEASE MANAGEMENT In book: Biopharmacological Activities of Medicinal Plants and Bioactive Compounds (Edited by Dr. Ajeet Singh & Dr. Navneet) (Page 193-213) **Series:** [Microbiology Research Advances](#); DOI: <https://doi.org/10.52305/EIIE4314>; Nova Science Publishers, Inc. USA (August, 2021); ISBN: 978-1-53619-959-8.
10. V. K. Singh and **Anuradha Singh**; Chapter 8. PLANTS BASED HERBAL DRUGS FOR CARDIOVASCULAR DISEASES (Page 140-160) In book: Biopharmacological Activities of Medicinal Plants and Bioactive Compounds (Edited by Dr. Ajeet Singh & Dr. Navneet) **Series:** [Microbiology Research Advances](#) DOI: <https://doi.org/10.52305/EIIE4314> Nova Science Publishers, Inc. USA August, 2021 ISBN: 978-1-53619-959-8.
11. V. K. Singh, **Anuradha Singh** and R. K. Singh (2020); Recent Advances in Treatment of HIV/AIDS Infection And Its Social Implication. In: Recent Advances in Chemistry and its Impacton Society (edited by L. Singh et al) pp. 72-94; Authors press; Printed in India at Thomson Press (India) Limited. ISBN 978-93-90155-90-3.
12. **Anuradha Singh** (2020); Antimicrobial Resistance: A threat to sustainable development. In: Sustainable Development in India: Issues and Challenges. (edited by L. Singh et al) pp. 51-59; Aastha Publication, Allahanad. ISBN 978-93-82718-24-6.
13. **Anuradha Singh** (2020); "Antibiotic Resistance Breakers: Strategies To Combat The Antibacterial Drug

- Resistance". In : An Introduction to Antibacterial Properties (Edited by Nicholas Paquette) Series: New Developments in Medical Research; Publisher : NovaScience Publishers Inc; USA. ISBN: 978-1-53618-305-4.
14. **Singh, Anuradha** (2019). Molecular docking: A computational tool for structure based drug discovery. In: Advances in Chemical and Applied Sciences (edited by M. Tripathi, SK Srivastava,R. Srivastava). pp. 170-181. Allahabad, India: Firstprint publications.ISBN:978-93-88018-17-3.
 15. **Singh, Anuradha** (2020). Pharmacological Properties of Curcumin: Solid Gold or Just Pyrite? In: Advanced Pharmacological Uses of Medicinal Plants and Natural Products (1 Volumes) (edited by Ajeet Singh (National Dairy Research Institute, India), Padam Singh (Vaccine and Infectious Disease Research Centre, Translational Health Science and Technology Institute, India) and Navneet Bithel (Gurukul Kangri University, India)). US:IGI Global Publication. ISBN13: 9781799820949; DOI: 10.4018/978-1-7998-2094-9

e-content module

Self-learning material DCECHE-105 Physical chemistry II (Block 1) unit-3 Electrochemistry-II for B.Sc. Chemistry ; U.P.Rajarshi Tandon Open University, Prayagraj.

Abstracts awarded

2. Anuradha Singh, M. Yadav, R. Srivastava, R. Kaur, S. K. Gupta, R. K. Singh (2014). Synthesis, *In silico* and *In vitro* Activity of Arylsulphonamides as NNRTIs against HIV-1. NASI, Jodhpur. (**NASI- Swarna Jayanti Award, Best Paper presentation**)
3. Anuradha Singh, Madhu Yadav, R. Srivastava, Rajinder Kaur, Satish K. Gupta, R. K. Singh (2013). Design, Synthesis and anti-HIV Activity of Arylsulfonilamides as Non-Nucleoside Reverse Transcriptase Inhibitors. SHIATS, Allahabad. (**Poster presentation, Second prize**)
4. Anuradha Singh, Madhu Yadav, Dipti Yadav, Garima Kumari and R. K. Singh (2012). Novel Acyclic Nucleoside Analogues as Inhibitors of HIV-1 RT. 4th National and 1st International Science Symposium on HIV & Infectious Diseases Chennai, India. (**Poster presentation, Symposium fellowship**)

Conferences/seminars

1. FDP on Bioinformatics and Computational Biology: Introduction and Approaches organized by Department of Botany, Zoology and Chemistry of C.M.P. Degree College, Prayagraj under strengthening component of DBT (**9th Dec to 15th Dec ,2020**).
2. ONE WEEK ONLINE Training Program on ICT tools for Teaching, Learning & Administration organized by Dept of Electronics & Communication; University of Allahabad. (**04-10 August 2020**).
3. Advanced online workshop on Protein structure prediction & Molecular Docking organized by Dept of Applied Sciences, IIIT , Prayagraj. (**28-29 August 2020**).
4. Full Agenda of ACS on Campus India Virtual event (**August 10, 2020**).
5. National webinar on Intellectual property Rights organized by IQAC Govt. Model Science College (**02 Jan 2021**).
6. National Webinar on “ Vaccines for Covid 19 and Ahead” organized by Dept of Zoology; Utkal University, Bhubaneswar. (**27 August 2020**).
7. National Webinar entitled “Insights into Fundamental of Chemistry“ organized by the Department of Chemistry, CMP Degree College (A Constituent PG College of University of Allahabad) 18th June 2020 to 20th June 2020.
8. National seminar on “Innovative Frontiers in Applied Sciences” organized by Chemical Society, Department of Chemistry, CMP college in collaboration with Vijnana Parishad Prayag (local chapter) from 26/09/2019-28/09/2019 **Title of the paper presented “Docking Studies on 4-Thiazolidinone derivatives as Protein Translation Inhibitors”.**
9. National workshop on “lifestyle diseases and health” organized by NASI, India & Dept of Zoology, SSKGDC. From 15/10/2019-16/10/2019 (Attended).
10. National seminar on “Recent Advances in Chemistry and its impact on society”. Dept of Chemistry, SSKGDC & Allahabad chapter of Indian Science Congress, from 26/11/2019-27/11/2019. **Title of the paper presented “Development of Thiazolidinone derivatives as Protein Translation Inhibitors”.**
11. International Webinar The revival of Indian perspective and lifestyle to combat the covid-19 pandemic (with reference to Sanskrit literature) Jointly organised by Department of Sanskrit, Iswar Saran Degree College & WAVES (Wider Association for Vedic Studies), from 27–28 May 2020. **Title of the paper presented: “Role of Indian traditional plants in management of Covid-19”.**
12. Webinar on “Plannin for Exams considering COVID-19” (Highlights: Challenges for Educational Institutions & Possible Solutions inline with UGC Guidelines for Exams published on 29th April 2020, organized by SS Khanna Girl’s Degree college and DigitalEdu IT Solutions Pvt. Ltd. Pune, Maharashtra. 16th May 2020. (Certificate No. 2020/SSKGC/150).
13. Three days Online National Workshop in Structural Bioinformatics “ *In-silico Techniques in Drug Designing*” Jointly organised by Department of Biotechnology, Barkatullah University , and Corporate Institute of Pharmacy, Bhopal. 27 - 29 May, 2020.
14. Two days National Webinar “Research, Innovations and Extension : Criterion-3 of NAAC Assessment under Revised Accreditation Framework” Sponsored By: State Project Directorate Department of Higher Education, Govt. of M.P., Bhopal, under the World Bank Project of M.P.

- Higher Education Quality Improvement Program (MPHEQIP). Govt. Science College, Jabalpur M.P. 24 – 25 June 2020.
15. Three days National Webinar “Insight into fundamentals of chemistry” organized by Department of Chemistry, CMP Degree College, from 18th June 2020 to 20th June 2020.
 16. International Webinar COVID-19 And The Environment; organized by Department of Zoology, CMP Degree College. June 5th, 2020
 17. INTERNATIONAL CHEMISTRY WEBINAR – 2020 “Rethink, Restructure, Revive & Recycle: A post Covid perspective organized by Department of Chemistry, Ewing Christian College, Allahabad. June 9 – 15, 2020.
 18. National Webinar "COVID-19: From Infection to Viral Pathogenesis" organized by Dept of Botany; SSKGDC 14.06.2020.
 19. National Webinar "COVID-19: Impact on Human Health and Various Potent Therapeutic approaches" organized by Department of Zoology; SSKGDC; 15th -16th June 2020.
 20. National Webinar "Pedagogical Concerns, Challenges & Solutions in the wake of Covid-19 crisis", organised by Dr. Madhu Tandon B.Ed Faculty SSKGDC; 25 May 2020.
 21. **Science Leadership Workshop** organized by **Science Academies'-INYAS** and Central university Punjab, Bathinda; 22-28 June 2020.
 22. National seminar on “SUSTAINABLE DEVELOPMENT IN INDIA: ISSUES AND CHALLENGES” organized by SAROJ LAL JI MEHROTRA SCIENCE FACULTY OF S.S. KHANNA GIRL’S DEGREE COLLEGE, Allahabad and THE NATIONAL ACADEMY OF SCIENCES, INDIA, ALLAHABAD (**NOVEMBER 27-28, 2018**). (Oral presentation).
 23. National seminar on “Present Scenario of Environmental Challenges & Issues” organized by Department of Chemistry; CMP degree college, Allahabad. (December 16, 2018). (**Oral presentation**).
 24. An International conference on “Innovation and Translational Dimensions: Food, Health and Environmental Biotechnology” **Biosangam 2018**; organized by Department of Biotechnology; MNNIT, Allahabad. (March 09-11, 2018). (poster presentation).
 25. National seminar on “Reaching the Unreached through Science and Technology” organized by ISCA, Allahabad Chapter Department of the Chemistry University of Allahabad, Allahabad held during **Feb 24-25, 2018**. (oral presentation).
 26. A workshop on "**Techniques in Molecular Biology**" organized by MNNIT, Allahabad. (June 12-18, 2017).
 27. 86th Annual Session and Symposium on “Science, Technology and Entrepreneurship for Human Welfare in The Himalayan Region” December 02-04, 2016 Organized by Uttarakhand State Council for Science & Technology (UCOST), Vigyan Dham, Jhajra, Dehradun (poster presentation).
 28. National seminar on “Science and Technology For National Development” organized by ISCA, Allahabad Chapter Department of the Chemistry University of Allahabad, Allahabad held during Feb 11-13, 2017. (oral presentation).
 29. National conference on “NEW FRONTIERS IN CHEMISTRY –FROM FUNDAMENTALS TO APPLICATIONS” (NFCFA 2015) December 18-19, 2015 Organized by: Department of Chemistry, Birla Institute of Technology and Science Pilani, K. K. Birla Goa Campus, India. (Poster presentation)
 30. National seminar on Science and Technology For Indigenous Development of India organized by ISCA, Allahabad Chapter Department of the Chemistry University of Allahabad, Allahabad held during Feb 19-21, 2016. (oral presentation).
 31. Short term course on “**Synthesis characterization and Applications of Nanomaterials**” organized by MNNIT, Allahabad. (July 7-12, 2014).
 32. 84th Annual Session and Symposium on "Desert Science – Challenges and Opportunities" December 04-06, 2014 Organized by Jai Narain Vyas University, Jodhpur. (Oral presentation).
 33. National seminar on " Chemistry at the Interface of Innovative Researches in Science and Technology (CIIRST-14)" organized by Department of Chemistry University of Allahabad, Allahabad held on Feb 27-28, 2014. (oral presentation).
 34. **4th National and 1st International Science Symposium** on HIV & Infectious Diseases Chennai,

India held on 20th–22nd Jan 2012 (**Poster presentation & Symposium fellowship**)

35. 5th International Symposium on “CTDDR-2013: Drug Development for Orphan/Neglected Diseases.” CSIR-Central Drug Research Institute, Lucknow, India. held during Feb 26-28, 2013 (**Poster presentation**)

36. Workshop entitled "computational methods in Physical, Geological Modeling and Drug Designing" jointly organized by National centre of Experimental Mineralogy and Petrology, University of Allahabad and The National Academy of Sciences (Local Chapter) held during Sept 29 to Oct 01, 2011.

INVITED LECTURES / RESOURCE PERSON

| | | | | | |
|---|--|--|---------------------------|---|---------------------------|
| 1 | Design, environmentally benign synthesis and anti-microbial evaluation of highly functionalised 4-thiazolidinone derivatives | Global web Conference on Catalysis & Chemical Engineering (GCC 2022) | Invited lectures | Strenuous Group Arlington-76013, Texas, USA. | February, 23-24 2022 |
| 2 | “Safe & Responsible Handling of Pesticides” | Gardener Training program, under Ministry of Skill Development and Entrepreneurship, Govt. of India. | Resource person | Horticulture Experiment and Training Center Khusro Bagh, Prayagraj | December 31, 2021 |
| 3 | “How to make effective PowerPoint Presentation” | Three days Skill Development Programme for students | RESOURCE PERSON | under the aegis of College With Potential for Excellence, Phase II, UGC | January 17-19, 2022 |
| 4 | “Intellectual Property Rights in a nutshell...” | Under the aegis of IQAC cell SGTB Khalsa College, Shri Anandpur Sahib, Punjab under the aegis of IQAC cell | RESOURCE PERSON | Webinar on “IPR and Patents” | 30 April 2022 |
| 5 | “Introduction of Institution Innovation council: Role & Responsibilities” | CMP Degree College, Prayagraj | RESOURCE PERSON | Inaugural of Institution Innovation council of CMP Degree College | 01 October 2022 |
| 6 | 4-Thiazolidinone derivatives as peptide deformylase inhibitors | The National Academy of Sciences, India | Paper Presentation | 92nd Annual Session of NASI and Symposium on “Science & Technology – a vehicle for social transformation” | 4-6, December 2022 |

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| “Role & Responsibilities of Innovation Ambassador” (Invited Talk) | Inaugural of Institution Innovation council of CMP Degree College 15 February 2023 | CMP Degree College, Prayagraj | College |
| Poster competition in “Innovation in daily life” (Judge) | Celebration of Innovation day 15 February 2023 | CMP Degree College, Prayagraj | College |

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| Divisional Vegetable, Fruit and Flower Exhibition (Judge) | Chandrashekhar Azad Par , Prayagraj | -- | State |
| <i>Design and synthesis of 4-Thiazolidinone derivatives as peptide deformylase inhibitors</i> (Convnor & Paper Presentation) | National Seminar on “Science in Times to come” 17-18, March 2023 | Saroj Lalji Mehrotra Science faculty under DBT Star college Scheme SSKGDC | College |