

ICT CELL
CMP DEGREE COLLEGE
(A CONSTITUENT PG COLLEGE OF UNIVERSITY OF ALLAHABAD)
ALLAHABAD

Name: Dr. Anita Singh

Designation: Assistant Professor, Department of Botany, CMP Degree College

Qualifications: M.Sc. (Botany), D.Phil.(Biotechnology)

Awards and Honors: JRF, SRF

Specialization: Microbial Biotechnology, Bioremediation and microbial biofuel generation.

Joining Date as Assistant Professor at CMP Degree College from 09/02/ 2018



Experiences:

- As an Assistant Professor from February 2018 till present
- Aug 2008 – July 2009: Research Associate at Dept. of Biochemistry & Cell Biology, Rice University, Houston, TX, USA. Supervisor: Prof. George Bennett

Abstract published/Paper presented:

1. Anita Singh and Aditi Singh “Soil bacteria isolated from the Metsulfuron methyl herbicide contaminated agricultural land to clean the environment” in the 7th Annual International Conference on “Modulating the environment with microbes” organized by Department of Zoology (DU), Acharya Narendra Dev College (DU), Deen Dayal Upadhyay College (DU), C.M.P. Degree College (University of Allahabad), COCAS (PU), and PhiXgen Pvt. Ltd. Gurugram from November 8-11, 2022.
2. Anita Singh and Neetu Yadav. International Symposium on Toxicology and Applied Pharmacology Entitled “Isolation of microbes from the contaminated toxic organic compound River Ganga Water”. 29th to 30th September, 2022 National Institute of Pharmaceutical Education and Research (NIPER-R), Raebareli.
3. Anita Singh and Neetu Yadav. 7th Annual International Conference Entitled “Ganga water quality assessment using combine approaches: physico-chemical parameter and bacterial isolation with special reference to bioremediation of organic compound”. 8th to 11th November, 2022 Department of Zoology (DU), C.M.P. Degree College (University of Allahabad), COCAS (PU), and PhiXgen Pvt. Ltd. Gurugram
4. Anita Singh and Aditi Singh “Isolation of Bacteria From The Contaminated Soil For Bioremediation of The Sulfonylurea Herbicide” in the International Symposium on

Toxicology and Applied Pharmacology organized by National Institute of Pharmaceutical Education and Research- Raibareli (NIPER-R), 29th -30th September, 2022.

5. Anita Singh and Aditi Singh “Bioremediation of Sulfonylurea Herbicides by the Selected Strain of Bacteria Isolated from Contaminated Soil” in the national conference 16th Conference of The Indian Science Congress Association (Allahabad Chapter) DST Funded on SCIENCE & TECHNOLOGY : FUTURE IN INDIA. Held in Chemistry department, University of Allahabad in 30 to 31 March 2022. Page no. 50.
6. Anita Singh and Shweta Misra, “Microbial Bioremediation of Agricultural soils polluted with sulfonylurea herbicides with respect to INDIA” in the event The 6th Annual International e Conference of International Network of Soil Contamination Research (INSCR) on “Microbes in Sustainable Development, organized by Department of Zoology, University of Delhi, C.M.P. College, Allahabad University and other college. 15th to 18th November, 2021
7. Anita Singh and Rakshanda Jabbar, “Bioremediation: future aspect for the cleaning of agricultural soil contaminated with chlorinated pesticides” in the event The 6th Annual International e Conference of International Network of Soil Contamination Research (INSCR) on “Microbes in Sustainable Development, organized by Department of Zoology, University of Delhi, C.M.P. College, Allahabad University and other college. 15th to 18th November, 2021
8. Anita Singh, Rakshanda Jabbar. Effect of COVID-19 Lockdown on Air Pollution in India”.. This international conference was held on 5th June 2020 at Zoology Department, CMP College, Prayagraj.
9. Anita Singh and Rakshanda Jabbar. “Impact of COVID-19 Lockdown on Water Quality of Indian Aquatic Environment”. The international e-conference was on "Sustainability Challenges & Transforming Opportunities: Amidst Covid-19" held on July 26-30, 2020 at S.S Khanna Girls Degree College, Prayagraj.
10. Anita Singh, Yashwant Singh, Prashant Kumar Singh, D. K. Chauhan Entitled with “Bioremediation-A technology to manage the polluted environment and recover contaminated soil” This national conference on Future India: science and Technology held on 22th Feb -24th Feb 2019 at Department of Chemistry, University of Allahabad.
11. Prashant Kumar Singh, Anita Singh, D. K. Chauhan. “Tuning photoluminescence of ZnS:Mn²⁺ nanoparticles by reaction condition”. This national conference on Future India: Science and Technology was held on 22th Feb -24th Feb 2019 at Department of Chemistry, University of Allahabad.
12. Anita Singh, Yashwant Singh. “Bio-Hydrogen a renewable energy- production from organic waste materials”. This international conference was held on 28th Feb -1th March 2019 at Rajiv Gandhi Institute of Petroleum Technology, Jais.
13. Anita Singh and Prashant Kumar Singh “Nanotechnology- An approach to enhanced biofuel production”. National Seminar on Innovative frontiers in applied sciences was held on 26th - 28th September 2019. Organized by Chemical society, Department of Chemistry, CMP College, Prayagraj.

14. Prashant Kumar Singh, Yashwant Singh, D. K. Chauhan, Anita Singh. Enhanced Microbial Biodegradation of gamma-Hexachlorocyclohexane (Lindane) in the presence of Iron Nanoparticles. Proceedings of International conference on Recent Trends in Agriculture, Biodiversity and Social Sustainability (ABSS 2018), at BSI, Prayagraj, held on Sep 30 and Oct 01, 2018. Pg. 68.
15. Anita Singh and Krishna Misra: Biological Hydrogen Production by the Purple Bacteria *Rhodospseudomonas palustris CGA009*; Proceedings of 2nd International Conference on Chemistry and Environment, Indore, India (2005), 414 – 417.
16. Anita Singh and Krishna Misra: Effect of Nitrogen Sources on Hydrogen Production by *Rhodospseudomonas palustris CGA009*; 3rd International Conference on Plants and Environmental Pollution, Lucknow (2005), India.
17. Anjana Pandey and Anita Singh, 2005: Increased Hydrogen Production by a Hybrid System of PNS & Fermentative Bacteria; National Conference on Advancing Frontiers in Biotechnology for Sustainable Agriculture and Health, Bareilly (2005), India.
18. Anjana Pandey, Ashutosh Pandey and Anita Singh: Reverse Micelles as a Nanobiotechnological Tool for Hydrogen Production; 73rd Annual meeting of Society of Biological Chemist India, Pantnagar (2004), India.

Paper Published:

1. Anita Singh and Aditi Singh. Effects of Metsulfuron Methyl a sulfonylurea herbicide on the selected bacteria isolated from the contaminated agricultural field. *Biochem. Cell. Arch.*, Vol. 23, No. 1, pp. 323-328, 2023.
2. Anita Singh, Yashwant Kumar, Prashant Kumar Singh and D. K. Chauhan. Biodegradation study of lindane using selected bacteria isolated from contaminated agricultural land. *Journal of Experimental Zoology India*, Vol 25, No 1 pp. 319-323. (2022).
3. Prashant Kr Singh, Anita Singh, Sindhu Singh, Anil Kumar. Synthesis and characterizations of ZnS nanoparticles on *E.coli* DNA skeleton. *J. Chemtracks* 23(1&2)243-248 (2021).
4. Anita Singh and Krishna Misra: Improvement of Hydrogen Production by Immobilized *Rhodopseudomonas palustris CGA009* Using Reverse Micelles as Microreactor; Proceedings of Clean Technology Conference & Expo 2009, 101-104. ISBN 978-1-4398-1787-2.
5. Anita Singh, Ashwani Kumar and Krishna Misra: Enhanced Biodegradation of 2,3,4,5,6-pentachlorocyclohexan-1-ol – a γ -HCH Metabolite -- in the Presence of α - and β -HCH Isomers by *Pseudomonas aeruginosa* ITRC-5.; Proceedings of Clean Technology Conference & Expo 2009, 290-293. ISBN 978-1-4398-1787-2.
6. Anita Singh, Pinaki Sar and George N. Bennett: Isolation and Characterization of Benzene Degrading Bacteria from Gasoline Contaminated Water; Proceedings of Clean Technology Conference & Expo 2009, 286-289. ISBN 978-1-4398-1787-2.

7. Anita Singh and Krishna Misra: Improved hydrogen production by coupled systems of hydrogenase negative photosynthetic bacteria and fermentative bacteria in reverse micelles; International journal of hydrogen energy 33 (2008), 6100 – 6108. ISSN: 0360-3199 (Impact Factor: 3.54)

Book Chapter:

Entitled with “Impact of COVID-19 Lockdown on Water Quality of Indian Aquatic Environment”. Anita Singh, Rakshanda Jabbar. (2020) Book Name: *Three Major Dimensions of Life; Environment, Agriculture and Health*. Pg. No. 298-304. ISBN:978-81-923535-7-9.

Award:

1. Scientist of the Year 2021 in the field of Biotechnology given by Society of biological sciences and rural development, Allahabad on 20th December 2021.
2. Received “Nari Shakti Samman 2023” award by the society for the outstanding contribution in the field of Environmental Microbiology and Biotechnology on 5th March 2023.

Invited Lecture:

1. **Anita Singh:** “Reverse micelles: A Nano biological tool for bio hydrogen production” Physichem 2019 at Nehru Gram Bharti Deemed University on November 4, 2019
2. **Anita Singh** “Bioremediation: An approach to clean the agricultural land and environment” in National Seminar on DiitAll: Innovation and technology for gender equality and Nari Shakti Samman 2023 organised by society of biological sciences and rural development, Prayagraj held on 5th March 2023.

Workshop Completed:

- Successfully completed UGC sponsored Five day workshop on NAAC, UGC- Human resource Development Centre, University of Allahabad, Prayagraj. From 23/8/2021 to 27/8/2021.
- Completed training course on “A Workshop of Hands on Techniques used in Biotechnology” which was DBT funded programme, held on 17th Dec to 1st Jan 2019 At Centre of Biotechnology, University of Allahabad.

Ongoing Project:

1. Minor project from DBT, Delhi has been sanctioned to me as a project Director on the topic titled “**A workshop of Hands on Techniques used in biofuel production**” (San. No.102/IFD/DBT/SAN2199/2020 21 Dated: 29/1/2021).

2. A Major project sanctioned by CSTUP, Lucknow as a PI entitled with “Isolation and characterization of microbial strains relevant to Sulfonylurea herbicides bioremediation” (File No. CST/CHEM/D 2264).

Orientation Programme:

Successfully completed with ‘A’ grade 124th Orientation Programme which was held on 30th August 2019 to 19th September 2019 at UGC- Human resource Development Centre, University of Allahabad, Prayagraj.

Faculty Development and Training Programme Completed:

1. Successfully completed One Week Faculty Development Programme on “Online Teaching and Assessment Pedagogy” which was held on 24/8/2020 to 29/8/2020 through video conferencing Organized by Dibrugarh University Institute of Engineering And Technology in collaboration with Dr. SSBUI CET, Panjab University under TEQIP-III.
2. Successfully completed One Week Faculty Development Programme (FDP) on “Econtent Development and Delivery” under the aegis of TEQIP III project, DUIET held at DUIET, Dibrugarh University, Assam from 19th August to 23rd August, 2020.
3. Successfully completed One Week Online Training Program on ICT Tools for Teaching, Learning and Administration August 04 – August 10, 2020 Organized by Department of Electronics and Communication J. K. Institute of Applied Physics & Technology University of Allahabad, Prayagraj.

Number of PhD Students Enrolled: One student enrolled for Ph.D (Ms. Neetu Yadav)

Number of Project Students Enrolled: One Student (Ms. Aditi Singh)

Number of Students Completed for MSc Dissertation: 13 students

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Website: For update

https://sites.google.com/d/1Gqp1SJi73_4jkr15SG_uCSyyUYBWkszL/p/1iJVYaYD31xrgNZpZqB0qIKBQF_PIKhxw9/edit

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