

Curriculum vitae

Dr. Anurag Singh

M.Sc., NET, GATE, Ph.D.

Assistant Professor,

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ACADEMIC QUALIFICATION

- Ph.D. on topic “Continuous decolorization of distillery effluents(Molasses Melanoidin) by indigenous microbial consortia” Department of Microbiology(Centre of Excellence), Dr. R. M. L. Avadh University, Ayodhya(Faizabad) U.P.(224001), India, 2024
- UPPSC Examination qualified for Assistant Professor, Government Degree College in 2021
- CSIR-UGC NET JUNE-2014(Life Sciences) QUALIFIED (A.I.R.-23th Rank)
- ICAR-ASRB NET 2013(Agricultural Biotechnology) QUALIFIED
- ICAR-ASRB NET 2010 (Basic Plant Science) QUALIFIED
- GATE 2007 & 2009 (Life Sciences) QUALIFIED
- CET-Ph.D.-2012 QUALIFIED Conducted by Dr. R. M. L. Avadh University, Faizabad, U.P.
- M.Sc. Botany from Monad University, Hapur, U.P. in 2013
- M.Sc. Biotechnology from Jiwaji University , Gwalior, M.P. in 2007
- B.Sc. from Dr. R. M. L. Avadh University, Faizabad, U.P. in 2002
- 12th from U.P Board in 1998
- 10th from U.P Board in 1996

RESEARCH AND TEACHING EXPERIENCE

- Joined Dept. of Microbiology, Dr. R.M.L. Avadh university Faizabad as **Research Scholar** in June 2013 under supervision of Dr. Rajeeva Gaur
- Joined as a **Guest lecturer** (P.G.Diploma in Biotechnology) at Government Polytechnic College Faizabad,U.P.(from 1st July 2014 to 30 June 2015).
- Joined Dept. of Microbiology, Dr. R.M.L. Avadh University, Faizabad, U.P. as a **Guest lecturer**(from 06 September 2019 to 30 June 2021)
- Joined Government Degree College Kuchlai, Sitapur, U.P. as a **Assistant Professor & Incharge** of Botany Department after qualifying Uttar Pradesh Public Service Commission examination (From 07 August 2021 to Till date)

PROJECTS

- 6th month project work on-“Phylogenetic analysis of *Anopheles culicifacies* sibling species B & C”, in Malaria Research Centre New Delhi, India (ICMR institute) based on Molecular biology & Bioinformatics(2007) for partial fulfillment of M.Sc. degree.
- Joined as **S.R.F.** on project entitle – “Harnessing of arbuscular mycorrhizae for biofertilization in horticulture” in G. B. Pant University of Agriculture and Technology ,Pantnagar (from March 2011 to June 2011)
- Joined as a **Project Fellow** in U.G.C. Major Research Project on **28 August 2015** entitled “Continuous decolorization of distillery effluent(Molasses Melanoidin) by consortium of Bacterial and Yeasts strains” and successfully completed on **28 August 2018** under supervision of Professor(Dr.) Rajeeva Gaur, Department of Microbiology, Dr. R. L. Avadh University, Ayodhya(Faizabad), U.P., India.

PUBLICATION

- R.K.Mishra, R.K.Jaisawal, D.Kumar,P.R.Saable, **A.Singh** (2014) “Management of major disease and insect pests of onion and garlic” Journal of Plant Breeding and Crop Science. 6(11):160-170. NAAS Rating -6
- Tiwari S, Gaur R and **Singh A** (2014). “Distillery Spentwash Decolorization by a noval Consortium of *Pediococcus acidilactici* and *Candida tropicalis* under Static Condition” Pakistan Journal of Biological Sciences. 17(6):780-791. **I.F-0.73**, Citation-01, H-index-26 (UGC care, Web of Sciences)
- Gaur R., **Singh A.**, Tripathi A., Singh R. (2016) Bioreactors. In: Principles and Applications of Environmental Biotechnology for a Sustainable Future, editors Ram Lakhan Singh. **Springer** Singapore. pp 233-272
- Rajeeva Gaur, **Anurag Singh**, Soni Tiwari, A. Tripathi (2017) “A noval strain of Bacterium, *Arthrobactor* sp. use for decolorization Melanoidin of distillery effluent” Indian Journal of Agriculture and allied science. pp 2455-9709 Volume: 3, No.: 4

- Gaur R., **Singh A.**, (2019) Microbial Environment of Food. In: Food Safety and Human Health, editors Ram Lakhan Singh and Sukanta Mondal. **Elsevier**. pp 198-218
- Jayanti Neerja, Rajeev Gaur and **Anurag Singh**(2020) “Development of resistance against Tafenoquine in the blood induced infection of *Plasmodium yoelii* and its possible simultaneous effect on sporozoite induced tissue stage” Bioscience Biotechnology Research Communications. Vol 13 No(4) Oct-Nov-Dec, (UGC care)
- Soni Tiwari, Ranjan Singh, Rajeeva Gaur, **Anurag Singh** “Three-Step Purification and Characterization of Organic Solvent-Tolerant and Alkali-Thermo-Tolerant Xylanase from *Bacillus paramycoides* T4[MN370035] Catalysts 2022,12,749.<https://doi.org/10.3390/catal12070749> (**I F-4**) (UGC care, Web of Sciences)
- **Anurag Singh**, Dr. Rajeeva Gaur, Dr. Pradeep kumar Singh, Ranjit Singh Media Optimization for the Decolorization of Distillery Effluent by *Streptococcus sp.* Chelonian Conservation And Biology Vol. 18 No. 2 (2023) | <https://www.acgpublishing.com/> | ISSN - 1071-8443 DOI: [doi.org/10.18011/2023.11\(2\).1360.1379](https://doi.org/10.18011/2023.11(2).1360.1379) (UGC care, Scopus)
- **Anurag Singh** , Rajeeva Gaur, Ranjit Singh, Tuhina Verma Decolorization of Distillery Effluent (Molasses Melanoidin) by Yeast Strain, *Candida Glabrata* Journal of Chemical Health Risks JCHR (2023) 13(6), 984-994 | ISSN:2251-6727 (UGC care, Scopus)
- Ranjit Singh, Rashmi Singh, **Anurag Singh**, Santosh Kumar Singh Reviewing Trichoderma Species as most potent fungal partner in Biocontrol of plant Pathogen by in Vitro and Field Studies: A Special Reference to Collar Rot of Chickpea Journal of Chemical Health Risks JCHR (2023) 13(6), 2862-2870 | ISSN:2251-6727 (UGC care, Scopus)
- Ranjit Singh, Rashmi Singh, **Anurag Singh**, Alok Assesments of Sclerotium Rolfsii Potential Biocontrol by the Enviornmental Friendly Trichoderma Species Korean Journal of Physiology and Pharmacology, Volume 28, Issue 1, 2024 ISSN: 1226-4512 DOI: 10.25463/kjpp.27.1.2023.7 (UGC care, Web of Sciences)

CONFERENCE

- **Oral Presentation** of a paper entitled “Naturally isolated *Saccharomyces cerevisiae* strain for suppression of bacterial contamination in alcoholic industries” in National Conference on Biodiversity, Conservation Strategies & Sustainability of Medicinal Plants for their Pharmaceutical use in Human Health and prosperity (from august 24-25,2013), M.G.P.G. College Biotechnology and Molecular Biology Centre Gorakhpur (U.P.), India
- **Poster Presentation** of a paper entitled “ Decolorization of distillery effluent by a thermotolerant *Candida utilis*” in International Conference on Health, Environment & Industrial Biotechnology (from November 21-23,2013) Department of Biotechnology , Motilal Nehru National Institute of Technology Allahabad(U.P.), India
- Participated in seminar on “Role of CST, U.P. in Promotion of Science & Technology & Facilitation of IPR Protection” from 8 to 9 December 2016 organized by V.B.S. Purvanchal University, sponsored by CST, U.P.

- **Poster Presentation** of paper entitled “A noval strain of Bacterium, *Arthrobactor sp.* use for decolorization Melanoidin of distillery effluent” in international conference on “Agricultural, Allied Sciences & Biotechnology for sustainability of agriculture, nutrition and food Security” from 25-26 November, 2017 organized by Mahima Research Foundation and Social Welfare(194, Karaundi, B.H.U. Varanasi, U.P., India)
- **Oral Presentation** of paper entitled “Evaluation of fermentation kinetics for decolorization potential of *Bacillus* and *Aureobasidium sp.*” in 22nd international conference of international Academy of Physical Science on Emerging trends in physical Sciences from April 13-15, 2018 organized by Faculty of Science, Dr. R.M.L. Avadh University, Ayodhya (Faizabad), U.P.,India
- **Oral Presentation** of paper entitled “.Isolation and Evaluation of Melanoidin Degradation of Distillery Effluent by Bacterial Strains” In National conference of Department of Higher Education, Uttar Pradesh on Interdisciplinary Advancement in Biochemistry from March 28-29, 2019 organized by Department of Biochemistry, Dr. R.M.L. Avadh University, Ayodhya (Faizabad), U.P., India
- **Oral Presentation** of Paper entitled “ Media Optimization for the Decolorization of Distillery Effluent(Molasses Melanoidin) by *Bacillus sp.* “ in 5th International conference on Environment and Society (ICES 2023) Theme: New Vistas in Waste Management and Sustainable Environment, from December 29-30, 2023 organized by Department of Environmental Science, Dr. R.M.L. Avadh University, Ayodhya (Faizabad), U.P., India, in association with GESA, new Delhi, The American University, USA and Department of Environment, Forest and Climate change, Gov. of Uttar Pradesh, India

WORKSHOP/TRAINING

- Got a short term training from January to December 2010 on I.P.R.(Intellectual property right), under supervision of Mr. Ajitabha Pandey(consultant I.P.R.), New Delhi.
- Successfully completed National Training Programme on “Molecular Technique to Assess Microbial Community Structure and Identification” from 2nd -9th January, 2017 organized by ICAR-NBAIM, Kushmaur, Maunath Bhanjan(U.P.), India
- Successfully completed Workshop on “Gene cloning & its expression to produce genetically Modified organism” from 23rd-25th October, 2017 organized at Department of Microbiology, Dr. R.M.L. Avadh University in association with Cytogen Research & Development, Lucknow(U.P.), India
- Training on “Herbarium Methodology” on 29 & 1 November 2021 organised by N.S.S. , unit-1st, Bareilly Cllege,Bareilly in collaboration of B.S.I.
- Short term course on NEP-2020: Vision to Action, organized by UGC-HRDC & Lucknow University sponsored by RUSA, from March 8, 2022 to March 14, 2022.
- Training on UGC Sponsored Guru Dakshta(Orientation Programme/Faculty Induction Programme) affiliated to HRDC,University of Lucknow, Lucknow(U.P.) from January 06, 2023 to February 04, 2023

ADMINISTRATIVE WORK

- Eco restoration in charge in the college
- Rovers in charge in the college
- Member of different committee in the college
- B.Sc. and M.Sc. Botany Practical Examiner
- B.Sc. evaluator in Lucknow University
- Observer in common B.Ed. entrance examination 2022-24 in government inter college, Sitapur conducted by Ruhelkhand University, Bareilly, July 2022
- Observer in PET examination in Maharshi Vidya Mandir inter college, Sitapur, August 2022
- Different administrative post in UP election
- Member of organizing committee in 7 days workshop organized at Department of Microbiology Dr. R. L. Avadh University Ayodhya in Collaboration with Cytogene Research & Development, Lucknow from 03-09 September 2019

INVITED LECTURES

- Invited lecture on “Food & Food products and preservation of different food materials” in Govt. Fruit Preservation Centre, Faizabad on 25th October 2018.
- Invited lecture on “Biochemical properties of food materials” in Govt. Fruit Preservation Centre, Faizabad on 6th October 2019.
- Invited lecture on “Microbial Environment of food” in Govt. Fruit Preservation Centre, Faizabad on 28th February 2019.

MEMBERS OF THE SCIENTIFIC AND SOCIAL COMMITTEES

- Association of microbiologists of India

LAB EXPOSURE AND EXPERTISE

Microbiology: Media preparation, isolation, maintenance and culture of bacteria, fungi and yeast, staining of bacteria (negrosin staining and Gram-staining), chemical mutagenesis of bacterial and fungal strains, bench and pilot scale fermentation, cell and enzyme immobilization.

Molecular Biology: Isolation of DNA, Plasmid isolation, Agarose gel electrophoresis, SDS-PAGE, PCR.

Biochemistry: Biochemical Estimation of proteins, carbohydrates, Enzyme Assay, production and purification of enzymes from fungal and bacterial isolates.

Analytical Techniques: Microscopy, UV-Vis Spectrophotometry, Chromatography, FTIR.

Computer and Computational Biology: Windows, MS office (Word, Power point, Excel), working knowledge of adobe photoshop, paint, Design Expert software for Response Surface Methodology, Handling of different Bioinformatics tools.

AREAS OF INTEREST

- Bioremediation and Fermentation Technology
- Plant Biochemistry and Biotechnology
- Agriculture Microbiology and Microbial Technology.