د. رياض علي ظفر علي سيد

أستاذ

علوم الحياة والكيميـاء ـ شعبة الأحياء

كلية العلوم والآداب

جامعة نزوى، سلطنة عمان

محول: 1132

البريد الإلكتروني: riyazali.sayyed@unizwa.edu.om

موقع المكتب: 32–25

يعمل في الجامعة: منذ 2024

الحالة الاجتماعية: .....

حصل على درجة الدكتوراه في علم الأحياء الدقيقة من جامعة شمال ماهاراشترا، الهند في عام 2003، ودرجة الماجستير في علم الأحياء الدقيقة من جامعة شمال ماهاراشترا، الهند في عام 1996، وبكالوريوس العلوم في علم الأحياء الدقيقة من جامعة شمال ماهاراشترا، الهند في عام 1994. اهتماماته البحثية هي 1. تفاعل النبات مع الميكروبات - PGPR في تعزيز نمو النبات، والمكافحة الحيوية، وتحمل الإجهاد 2. تطوير بروتوكول لإنتاج البوليمرات القابلة للتحلل البيولوجي

Riyaz Sayyed UoN CV.pdf

المؤهلات الأكاديمية

Ph.D., North Maharashtra University, Jalgaon, India, 2003, Studies on secondary metabolites of Alcaligenes faecalis with reference to Plant Growth Promotion

Master, North Maharashtra University, Jalgaon, India, 1996

Bachelor, North Maharashtra University, Jalgaon, India, 1994

أنشطة التدريس

Microbiology

Applied Microbiology

Industrial Microbiology

Diagnostic Microbiology

Food Microbiology

Agriculture Microbiology

Applied Microbiology

Medical Microbiology

Immunology

Plant Physiology

Plant Pathology

الأنشطة البحثية

الاهتمامات البحثية ـ

Plant-Microbe Interaction- PGPR in plant growth promotion, biocontrol, and stress tolerance and bioremediation of heavy metal, salinity, and drought-affected soil.

Development of a protocol for the production of biodegradable polymers We developed the protocol for producing biodegradable plastic from microorganisms using agro-wastes. We have also studied this polymer`s biodegradation and found it an eco-friendly alternative to synthetic plastic.

العرض في المؤتمرات ـ

Heavy Metal Resistant PGPR for Iron Nutrition of all and for biocontrol of Plant diseases (Invited Talk)، , 4th Asian PGPR Conference، Hanoi, Vietnam، 03/05/2025

Bioplastic from Agro-Wastes: A Greener Approach to Combat Plastic Pollution ، International Conference on Sustainable Waste Management، University of Technology and Applied Sciences, Muscat, Oman، 24/02/2025

Crop Microbiome For Food and Agriculture Sustainability, (Keynote speaker)، The Global Advances in Health and Life Sciences, ، INTI International University, Nilai, Malaysia، 20/08/2024

Rhizomicrobiome: Role Players in Global Food and Nutritional Security (Invited speaker)، , Bridging Boundaries: Exploring Synergies Across Research Disciplines-THEVELI 2024 ، Maldives National University, Male, Maldives، 19/08/2024

Phytomicrobiomes for Global Food and Nutritional Security (Invited speaker)، International Conference on Environmental Design, Material Science, and Engineering Technologies (EFMSET), Dubai ، Abu Dhabi University, Dubai، 22/04/2024

Microbial polymers Environmental Sustainability (Invited speaker)، Biotechnology applications VI، INTI International University, Nilai, Malaysia, ، 30/11/2023

Rhizo-microbiome and Global Food and Environmental Sustainability (Plenary speaker) ، 8th Global Summit on Medicinal and Aromatic Plants (GOSMAP-8، Bangkok, Thailand، 08/11/2023

Biopotential of Rhizo-microbiome for the Sustenance of Agriculture (Plenary speaker)، 2nd International Conference of Biotechnology Society of Nepal (ICBSN-2022)``Biotechnology for Environmental and Sustainable Technologies (BEST)، Kathmandu, Nepal، 17/12/2022

Rhizo-microbiome for the Sustenance of Agro-ecosystem (Invited Talk)، , 6th Postgraduate Colloquium for Environmental Research 2022، Langkawi, Malaysia، 09/06/2022

Role of Endophytic Rhizobacteria in Inducing Systemic Resistance and Bio-Control of Fungal Pathogens of Medicinal Plants (Invited Talk and Session Chair). ، 7th International Mediterranean Symposium on Medicinal and Aromatic Plant Sciences، Izmir, Turkey، 18/11/2021

3rd International Congress on Biotechnology of Medicinal Plants and Mushrooms (Presentation), ، Janzan University, Iran، 17/05/2021

The dynamism of endophytic fluorescent Pseudomonas for inducing systemic resistance and bio-control of fungal pathogens of medicinal plants، , 6th Asian PGPR Conference، , Tashkent, Uzbekistan، 18/08/2019

Agro and Biocompatibility of hydrolytic enzyme producing PGPR (Invited talk and Session Chair)، 5th Asian PGPR Conference، Bogor, Indonesia، 16/07/2017

Bioactive compounds of rhizobacteria for plant iron nutrition and biocontrol (Poster)، , 12th International Conference on Bio-resources and Bio-refineries (RRB-12)، Ghent, Belgium ، 28/05/2016

Heavy Metal Resistant PGPR As Green Solution to Pesticide and Heavy Metal Pollution 9Invited Talk)، International Conference Agriculture & Food، Sofia, Bulgaria، 05/06/2014

Role of PGPR in bioremediation of heavy metal ions and plant growth-promotion of wheat and peanut grown in heavy metal contaminated soil، , 3rd Asian PGPR Conference، Manila, Philippines، 21/04/2013

Search for potent bacteria for PHB production: An eco-friendly biopolymer، 3rd International Biotechnology & Biodiversity Conference، Johor, Malaysia، 09/06/2012

Heavy Metal Resistant PGPR For Biocontrol of Phytopathogens And Bioremediation of Heavy Metal Contaminated Soil، , 1st World Biotechnology Conference، Dubai، 14/02/2012

Siderophore producing PGPR as eco-friendly Bio-control agent، 3rd World congress of Industrial Biotechnology, ، Dalian, China، 25/07/2010

Biotechnological potential of Siderophore producing microbes for sustainable Agriculture، 2nd World Congress on Industrial Biotechnology، Seoul South Korea، 05/04/2009

حضور المؤتمرات ـ

Conference on Organic Agriculture for Biodiversity and Sustainable Development, Asian productivity organization (Japan)، Colombo, Sri Lanka، 09/12/2024

المنشورات ـ

مقال:

1. Assessing the Synergistic Effects of Biochar, Hydrogel, and Biofertilizer on Growth and 2025 . Physiological traits of Wheat in Saline Environments. ، Functional Plant Biology. 52, FP24277 https://doi.org/10.1071/FP24277

2. Enhancing soil health and crop productivity: The role of zinc-solubilizing bacteria in 2025 . sustainable agriculture. ، Plant Growth Regulation, https://doi.org/10.1007/s10725-025-01294-7

3. Entrapment of cellulase of snail gut Bacillus amyloliquifacience for converting sugarcane 2025 . bagasse to bioethanol using Saccharomyces cerevisiae. ، Waste and Biomass Valorization. 2025. https://doi.org/10.1007/s12649-025-02964-3

4. Applying microbial biostimulants and drought-tolerant genotypes to enhance barley 2025 . .growth and yield under drought stress. ، Frontiers in Plant Sciences. 2025, 15:1494987

5. Biofilmed PGPR: A next-generation bioinoculant for plant growth promotion in rice (Oryza 2025 . sativa L.) under changing climate. ، Rice Science. 2025(32): .https://doi.org/10.1016/j.rsci.2024.08.008

6. Tri-Trophic Interactions for Enhanced Black Gram Growth and Root Rot Resilience. ، J of 2025 . Basic Microbiology. 2025, 65(3), e2400569. https://doi.org/10.1002/jobm.202400569

7. Changes in soil chemical properties and bacterial community composition of jujube 2024 .

orchard due to oil cake fertilization. ، J of Microbiology and Biotechnology. 2024. 34(12):2542-49. https://doi.org/10.4014/jmb.2406.06037

Deciphering the biocontrol potential of Trichoderma asperellum (Tv1) against Fusarium- 2024 .8 nematode wilt complex in Tomato. ، J of Basic Microbiology. e2400595 1-13 https://doi.org/10.1002/jobm.202400595

Microalgae-based solutions for palm oil mill effluent management: Integrating 2024 .9 phycoremediation, biomass, and biodiesel production for a greener future. ، Biomass and Bioenergy. 191, 2024, 07445, https://doi.org/10.1016/j.biombioe.2024.107445

Harnessing plant growth-promoting and wilt-controlling biopotential of a consortium of 2024 .10 actinomycetes and mycorrhizae in pigeon pea. ، J of Phytopathology. 2024;172:e13399 https://doi.org/10.1111/jph.13399

Rhizosphere Engineering of Biocontrol Agents Enriches Soil Microbial Diversity and 2024 .11 Effectively Controls Root-Knot Nematode. ، Microbial Ecology. 87, 120 (2024). https://doi.org/10.1007/s00248-024-02435-7

Hibiscus sabdariffa L. Petal Biomass: A Green Source of Nanoparticles of Multifarious 2024 .12 Potential ، Open Agriculture. e 2024; 9: 20220332 https://doi.org/10.1515/opag-2022-0332

In silico analysis of LPMO inhibition by ethylene precursor ACCA to combat potato late 2024 .13 blight ، J of King Saud University Science, 36(2024)103436. https://doi.org/10.1016/j.jksus.2024.103436

Comprehensive Analysis of Microbiome Biodiversity in Popular Date Palm (Phoenix 2024 .14 dactylifera L.) Fruit Varieties. ، Scientific Reports. 2024, 13:7378 https://doi.org/10.1038/s41598-023-34359-6

Optimization of fermentation conditions of Cordyceps militaris and in-silico analysis of 2024 .15 antifungal property of cordycepin against plant pathogens. ، J of Basic Microbiology. 2024; e2400409 1-18 https://doi.org/10.1002/jobm.202400409

Neoscytalidium dimidiatum associated with Albizia lebbeck disease in Saudi Arabia: 2024 .16 symptomatology, pathogenicity, and molecular identification ، Forest Pathology. 2024;54:e12884. https://doi.org/10.1111/efp.12884

Wheat growth and yield response are regulated by mycorrhizae application and 2024 .17 supplemental irrigation. ، Chemosphere. 364 (2024) 143068 https://doi.org/10.1016/j.chemosphere.2024.143068

Molecular Characterization and Biodiversity Analysis of Botrytis cinerea, a Grey Mould of 2024 .18 Tomato, and its Antagonism Using Local Bacillus subtilis. ، Physiological and Molecular Plant Pathology. 133 (2024) 102376. https://doi.org/10.1016/j.pmpp.2024.102376

Evaluation of destruction of bacterial membrane structure associated with anti-quorum 2024 .19 sensing and ant-diabetic activity of Cyperus esculentus. Extracts. ، Heliyon. 2024. E34128. https://doi.org/10.1016/j.heliyon.2024.e34128

Effect of macrophyte biomass-based vermicompost and vermicompost tea on plant 2024 .20 growth, productivity, and biocontrol of Fusarium wilt disease in tomato. ، Biocatalysis and Agricultural Biotechnology. 2024, 60:103320. https://doi.org/10.1016/j.bcab.2024.103320

Advanced multivariate approaches for Selecting Moroccan drought-tolerant barley 2024 .21 (Hordeum vulgare L.) cultivars. Ecological Frontiers. ، 2024, 44, 4: 820-828,https://doi.org/10.1016/j.ecofro.2024.02.010

Evaluation of suitability and biodegradability of the organophosphate insecticides to 2024 .22 mitigate insecticide pollution in onion farming. ، Heliyon. 10 (2024)e32580. https://doi.org/10.1016/j.heliyon.2024.e32580

Biopotential of rhizobacteria to improve growth and phytochemical content in Javanese 2024 .23

ginseng (Talinum paniculatum) herbal plant. ، Frontiers in Sustainable Food Systems. 8:1384700. https://doi.org/10.3389/fsufs.2024.1384700

.24 2024 Molecular characterization reveals biodiversity and biopotential of rhizobacterial isolates of Bacillus spp. ، Microbial Ecology. 87, 83 (2024). https://doi.org/10.1007/s00248-024-02397-w

.25 2024 Hybrid method of gibberellic acid applications: A sustainable and reliable way for improving jerusalem cherry. ، Biocatalysis and Agricultural Biotechnology. 59(2024)103253. https://doi.org/10.1016/j.bcab.2024.103253

.26 2024 Babarabi M, Sardoei AS, Dhanalakshmi K, Malathi G, Sayyed RZ, Sunita K, Ghasemi H, & Fazeli-Nasab B (2024). Triacontanol: The Role Player in Polianthes tuberosa var. Pearl Response Under Natural Conditions. ، Biocatalysis and Agricultural Biotechnology. 58(2024)103228. https://doi.org/10.1016/j.bcab.2024.103228

.27 2024 Osmolyte-producing microbial biostimulants regulate the growth of Arachis hypogaea L. under drought stress. ، BMC Microbiology. 4,165 (2024). https://doi.org/10.1186/s12866-024-03320-6

.28 2024 Seed coating with minerals and plant growth-promoting bacteria enhances drought tolerance in fennel (Foeniculum vulgare L.). ، Biocatalysis and Agricultural Biotechnology. 58(2024)103202. https://doi.org/10.1016/j.bcab.2024.103202

.29 2024 Investigating potential protease activity of psychrotrophic bacteria from a municipal landfill for solid waste management. ، Biomass Conversion and Biorefinery. https://doi.org/10.1007/s13399-024-05621-2

.30 2024 Purification and characterization of desferrioxamine B of Pseudomonas fluorescens and its application to improve oil content, nutrient uptake, and plant growth in peanuts. ، Microbial Ecology. 87:60 https://doi.org/10.1007/s00248-024-02377-0

.31 2024 A network pharmacology approach with experimental validation to discover the protective mechanism of poly herbal extract on diabetes mellitus. ، J of King Saud University Science. 36,4, 2024, 103138. https://doi.org/10.1016/j.jksus.2024.103138

.32 2024 Antidiabetic activity of methanolic extract of Hibiscus sabdariffa Linn. fruit in alloxan-induced Swiss albino diabetic mice. ، Open Agriculture, 2024, 9:20220243. https://doi.org/10.1515/opag-2022-0243

.33 2024 Bioinformatic investigation of the effect of volatile and non-volatile compounds of rhizobacteria in inhibiting late Embryogenesis Abundant (LEA) protein that induces drought tolerance. ، Open Agriculture, 9:20220252 https://doi.org/10.1515/opag-2022-0252

.34 2024 Assessing Organophosphate Insecticide Retention in Muscle Tissues of Juvenile Common Carp Fish Under Acute Toxicity Tests. ، Toxicology Report, 12 (2024):253-259. https://doi.org/10.1016/j.toxrep.2024.02.002

.35 2024 Harnessing Abiotic Elicitors to Bolster Plant’s Resistance against Bacterial Pathogens. ، .Plant Stress, 2024, 11, 2024:100371, https://doi.org/10.1016/j.stress.2024.100371

.36 2024 Molecular Characterization of Candidatus phytoplasma phoenicium’ infecting almond (Prunus dulcis) and Evaluation of Biochemical Defenses Produced in Plant. ، J of Phytopathology, 2024;00:e13260 https://doi.org/10.1111/jph.13260

.37 2024 Solid lipid nanoparticles of Platycladus orientalis L. possessing 5-alpha reductase inhibiting activity for treating hair loss and hirsutism. ، Journal of Medicinal Plants and By-products. 2024, 1: 233-246 https://doi.org/10.22034/jmpb.2023.364389.1634

.38 2022 An invitro phytotoxicity assessment of UV-enhanced biodegradation of plastics for spinach cultivation. ، Frontiers of Env Sci and Engg, 19(2): 17 https://doi.org/10.1007/s11783-025-1937-3

الخبرة الإدارية

2024 – الآن: Chairman - Risk Management Committee - University of Nizwa

2024 – الآن: Chairman - Student Skill Development Committee - University of Nizwa

2024 – الآن: Member- Promotion Committee, Member - University of Nizwa

2022 - 2015: Head, Department of Microbiology - PSGVP Mandal`s ASC College, SHAHADA 425409

2022 - 2015: Head, Department of Biotechnology - PSGVP Mandal`s ASC College, SHAHADA 425409

2013 - 2011: Co-Ordinator - Remedial Coaching - PSGVP Mandal`s ASC College, SHAHADA 425409

2015 - 2010: Head, Department of Biotechnology - PSGVP Mandal`s ASC College, SHAHADA 425409

2024 - 2007: Member, Internal Quality Assurance Cell (IQAC) committee - PSGVP Mandal`s ASC College, SHAHADA 425409

2022 - 2007: Member, National Assessment & Accreditation Council (NAAC) Steering Committee - PSGVP Mandal`s ASC College, SHAHADA 425409

العضوية في الهيئات المهنية

2025-2026: Royal Society of Biology, London

2024–الآن: Asian Phytopathological Society

2010–الآن: Asian PGPR Society, for Sustainable Agriculture

2008–الآن: Indian Phytopathological Society

2008–الآن: Microbiologists Society of India

2006–الآن: Biotech Research Society of India

2005–الآن: Association of Microbiologists of India

2 Fellow - Royal Society of Biology (FRSB), London 2025

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المرجع: https://www.unizwa.edu.om/staff/cas/riyazali.sayyed