



Impact of soil temperature, pH and carbon dioxide on the population and efficiency of fluorescent pseudomonad in the rhizosphere soil of *Pokkali* rice

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ABSTRACT

The present study was aimed at the evaluation of soil temperature, pH and carbon dioxide evolution on the number and efficiency of fluorescent pseudomonads around the root system of *Pokkali* rice at Vytilla in Ernakulam district of Kerala. Two plots (40 m²) comprising control (without application of *Pseudomonas fluorescens*) and *P. fluorescens* treated plants were used for the field experiment. The isolates of fluorescent *Pseudomonads* or *Pseudomonas fluorescens* were counted and their efficiency was assessed for IAA, ammonia, HCN and siderophore production. Simultaneously, soil temperature, pH, and carbon dioxide evolution were also recorded. A total of 6 fluorescent pseudomonads (VPAU1, VPAU2, VPAU3, VPAU4, VPAU5 and VPAU6) were found during the crop period. All the isolates produced IAA and ammonia with varying degrees of intensity. Three isolates (VPAU1, VPAU3 and VPAU4) produced HCN, and no microbial isolates produced siderophore. The effect of soil temperature, pH, EC and carbon dioxide evolution was correlated with the number of fluorescent pseudomonads in the soil. The bacteria were significantly affected by pH and EC, whereas soil temperature and CO₂ evolution did not show any effect on the number of fluorescent pseudomonads. There was no significant influence of soil temperature, pH, EC and carbon dioxide evolution on indole acetic acid production, ammonia, and HCN production. Inoculated *Pseudomonas fluorescens* did not survive in *Pokkali* rice fields. However, further studies are needed for at least three seasons in *Pokkali* soils to confirm the results of the present study.

Introduction

Upadhyay *et al.* (2011) reported that saline-tolerant PGPR can alleviate soil salinity stress during plant growth and exopolysaccharide (EPS) secreted by the bacteria. Different bacterial genera have been proposed to alleviate salt stress in plants, such as *Agrobacterium*, *Arthrobacter*, *Azotobacter*, *Azospirillum*, *Bacillus*, *Burkholderia*, *Klebsiella*, *Pseudomonas* (Costa-Gutiérrez *et al.*, 2020; Lami, *et al.* 2020), *Rhizobium*, and *Serratia*. Earlier studies have reported that the potential PGPR with plant growth-promoting traits should be able to

efficiently colonize the rhizosphere and survive under field conditions for effective use as bioinoculants (Amaya-Gómez *et al.*, 2020). Fluorescent *Pseudomonads* are the most promising plant growth-promoting rhizobacteria involved in the biocontrol of plant diseases, produce phytohormones, hydrogen cyanide (HCN), siderophores, indole-3-acetic acid (IAA), and antibiotics. Matsuguchi and Sakai (1995) reported that the total bacteria and gram-negative bacterial population did not change significantly but total

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A Green and Permanent Land Randal S. Beeman,James A. Pritchard,2001 Once patronized primarily by the counterculture and the health food establishment the organic food industry today is a multi billion dollar business driven by ever growing consumer demand for safe food and greater public awareness of ecological issues Assumed by many to be a recent phenomenon that industry owes much to agricultural innovations that go back to the Dust Bowl era This book explores the roots and branches of alternative agricultural ideas in twentieth century America showing how ecological thought has challenged and changed agricultural theory practice and policy from the 1930s to the present It introduces us to the people and institutions who forged alternatives to industrialized agriculture through a deep concern for the enduring fertility of the soil a passionate commitment to human health and a strong advocacy of economic justice for farmers Randal Beeman and James Pritchard show that agricultural issues were central to the rise of the environmental movement in the United States As family farms failed during the Depression a new kind of agriculture was championed based on the holistic approach taught by the emerging science of ecology Ecology influenced the permanent agriculture movement that advocated such radical concepts as long term land use planning comprehensive soil conservation and organic farming Then in the 1970s sustainable agriculture combined many of these ideas with new concerns about misguided technology and an over consumptive culture to preach a more sensible approach to farming In chronicling the overlooked history of alternative agriculture *A Green and Permanent Land* records the significant contributions of individuals like Rex Tugwell Hugh Bennett Louis Bromfield Edward Faulkner Russell and Kate Lord Scott and Helen Nearing Robert Rodale Wes Jackson and groups like Friends of the Land and the Practical Farmers of Iowa And by demonstrating how agriculture also remains central to the public interest especially in the face of climatic crises genetically altered crops and questionable uses of pesticides this book puts these issues in historical perspective and offers readers considerable food for thought Nontimber Forest Products in the United States Eric T. Jones,Rebecca Jean McLain,James F. Weigand,2002 A quiet revolution is taking place in America s forests Once seen primarily as stands of timber our woodlands are now prized as a rich source of a wide range of commodities from wild mushrooms and maple sugar to hundreds of medicinal plants whose uses have only begun to be fully realized Now as timber harvesting becomes more mechanized and requires less labor the image of the lumberjack is being replaced by that of the forager This book provides the first comprehensive examination of nontimber forest products NTFPs in the United States

illustrating their diverse importance describing the people who harvest them and outlining the steps that are being taken to ensure access to them As the first extensive national overview of NTFP policy and management specific to the United States it brings together research from numerous disciplines and analytical perspectives such as economics mycology history ecology law entomology forestry geography and anthropology in order to provide a cohesive picture of the current and potential role of NTFPs The contributors review the state of scientific knowledge of NTFPs by offering a survey of commercial and noncommercial products an overview of uses and users and discussions of sustainable management issues associated with ecology cultural traditions forest policy and commerce They examine some of the major social economic and biological benefits of NTFPs while also addressing the potential negative consequences of NTFP harvesting on forest ecosystems and on NTFP species populations Within this wealth of information are rich accounts of NTFP use drawn from all parts of the American landscape from the Pacific Northwest to the Caribbean From honey production to a review of nontimber forest economies still active in the United States such as the Ojibway harvest of plants recounted here the book takes in the whole breadth of recent NTFP issues including ecological concerns associated with the expansion of NTFP markets and NTFP tenure issues on federally managed lands No other volume offers such a comprehensive overview of NTFPs in North America By examining all aspects of these products it contributes to the development of more sophisticated policy and management frameworks for not only ensuring their ongoing use but also protecting the future of our forests

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