

Diseases in Plants and their Management

P.C. Trivedi



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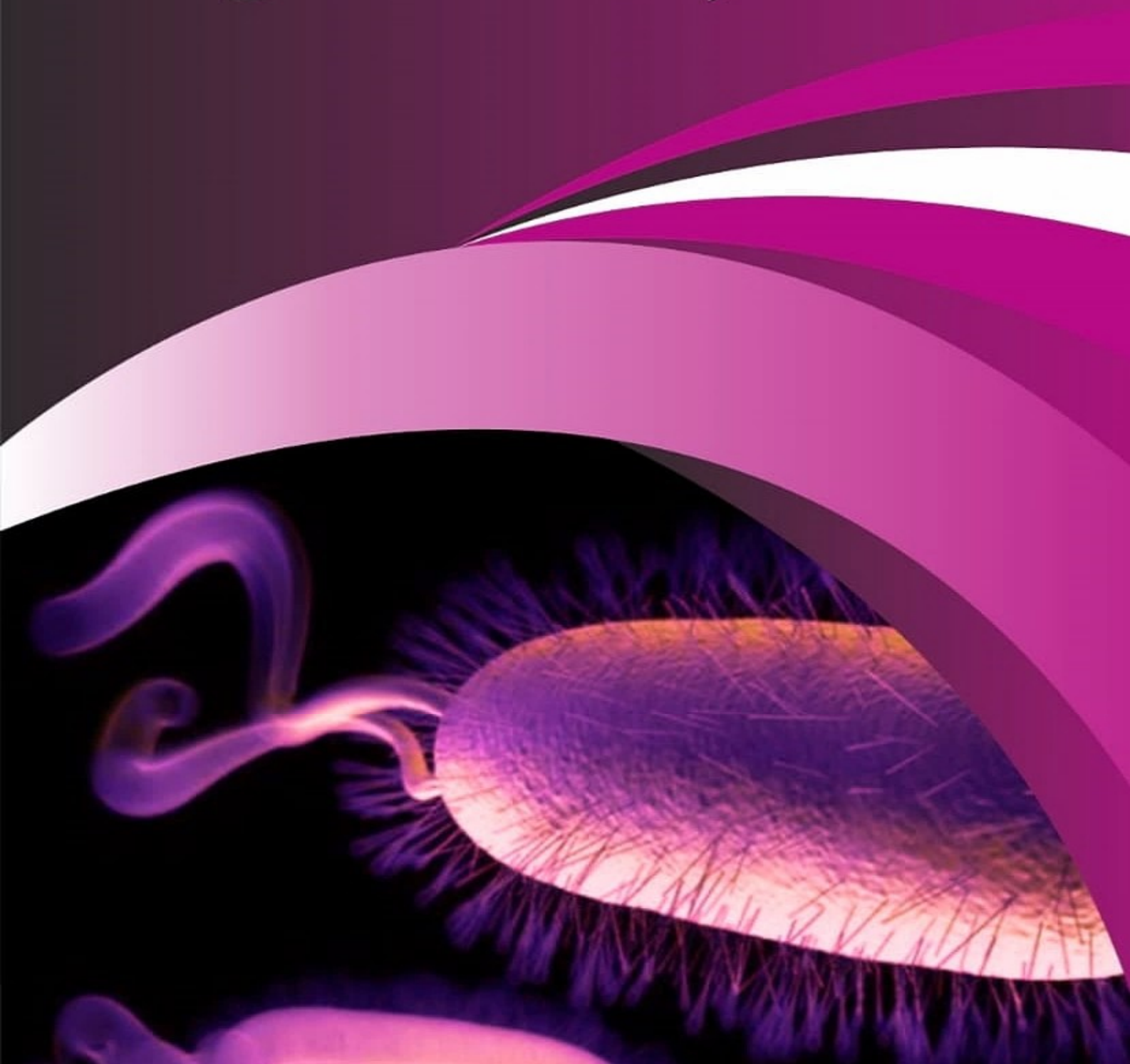


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3. Existence has Evidence	236
4. Branches of Forensic Botany	240
4.1. <i>Plant Anatomy</i>	240
4.2. <i>Palynology</i>	240
4.3. <i>Forensic Plant Ecology</i>	241
4.4. <i>Limnology</i>	241
4.5. <i>Forensic Plant Biotechnology</i>	242
4.6. <i>Plant Toxicology</i>	242
5. Plant Intoxication and Crime	243
6. Poisonous Behaviour of Plants and their Reported Case Studies	244
7. Phytochemistry as an Investigating Tool	246
8. Forensic Botany: Reported Cases from India	251
9. Need of Forensic Botany	252
14. Opportunities and Challenges for Seaweed Cultivation in India	255
— <i>Pandey Rashmi and Kejariwal Mona</i>	
1. Introduction	256
2. Seaweed Applications	256
2.1. <i>Human Food</i>	257
2.2. <i>Animal Feed</i>	259
2.3. <i>Bio-Fertilizers for Plants</i>	259
2.4. <i>Bioactives</i>	259
2.5. <i>Pharmaceutical</i>	260
2.6. <i>Cosmetic</i>	261
2.7. <i>Environments Benefits</i>	262
3. Seaweed Production	262
3.1. <i>Direct harvesting</i>	263
3.2. <i>Seaweed cultivation</i>	263
4. Challenges and Limitations	265
5. Scope and Prospects	266
6. Conclusion	267
15. Tremorgenic Lolitrems: Incidence and Health Hazards of Farm Animals	273
— <i>S. Kiran, M. Surekha and S.M. Reddy</i>	
1. Introduction	273
2. Producing Organisms	274
3. Chemical Structure and Characteristics	274
4. Isolation and Detection	278
5. Biosynthesis	278
6. Natural Incidence	280
7. Biological Activity	281
8. Mechanism of Action	284
9. Management of Tremorgenic Mycotoxins	286

**INNOVATIVE APPROACHES IN
DIAGNOSIS AND MANAGEMENT
OF CROP DISEASES**

Volume 2
Field and Horticultural Crops

Edited by
R. K. Singh, PhD
Gopala, PhD



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Contents

<i>Contributors</i>	<i>ix</i>
<i>Abbreviations</i>	<i>xiii</i>
<i>Foreword</i>	<i>xvii</i>
<i>Preface 1</i>	<i>xix</i>
<i>Preface 2</i>	<i>xxi</i>
1. Paradigm Shift in Detection of Rice Diseases and Their Management	1
Manas Kumar Bag, Prahlad Masurkar, Anuprita Ray, and Rakesh Kumar Singh	
2. Diagnosis and Management of Fungal Diseases of Rice Prevalent in Telangana State, India	29
S. Kiran, M. Surekha, and S. M. Reddy	
3. New Insights into the Identification and Management of Wheat Diseases	67
T. L. Prakasha, A. N. Mishra, J. B. Singh, S. V. Sai Prasad, and Suresh Chand	
4. Detection of and Management Approaches for Bakanae (Foot Rot) Disease in Rice	95
Sachin Kumar Jain, Kamal Khilari, and Mukesh Dongre	
5. Biotic and Abiotic Stresses in Cotton Crop in Punjab, India.....	109
Rupesh Kumar Arora and Paramjit Singh	
6. Modern Approaches for Management of Sesame Diseases	123
N. Ransingh, B. Khamari, and N. K. Adhikary	
7. Approaches for Diagnosis and Management of Banded Blight in Small Millets	163
A. K. Jain, S. K. Tripathi, and R. P. Joshi	
8. Maize Diseases and Their Sustainable Management in India: Current Status and Future Perspectives.....	179
M. K. Khokhar, K. S. Hooda, P. N. Meena, R. Gogoi, S. S. Sharma, Rekha Balodi, and M. S. Gurjar	
9. Recent Advances in Detection, Diagnosis, and Management of Finger Millet Diseases	221
Pardeep Kumar, Shrvan Kumar, Jiwan Paudel, and D. P. Singh	

Diagnosis and Management of Fungal Diseases of Rice Prevalent in Telangana State, India

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ABSTRACT

Rice is an essential basic food for the majority of the people in the world. Throughout the world, 90 millions of people are either rice producers or consumers. In Telangana State, rice covers 25 lakh hectares and yields annually only 77.50 lakh tones which are far below the Nations average production. In spite of its wide acceptance as principle, food production of rice has not increased proportionately, which may be attributed to various reasons, including fungal diseases. Thus the salient features of our investigations on the prevalence of fungal diseases of rice and their management in the Telangana region are summarized along with updated knowledge from various sources. Significant progress has been witnessed in the diagnosis of plant diseases, especially with reference to fungal diseases. Variety of methods, including ES for RPD2, convolution of neural network (CNN), local binary patterns histograms (LBPH), etc., are being developed to identify few rice diseases and also in turn, helpful to manage yield loss during and post-harvest stages of rice production. Therefore, various diagnostic methods with reference to rice diseases along with their merits and demerits are included in this chapter. A comprehensive list of fungal diseases of rice plant all over the globe, along with the most common and significant diseases in this region is described. A detailed account of some important fungal diseases such as sheath blight, blast, stem rot, sheath rot, kernel smut, and false smut

Innovative Approaches in Diagnosis and Management of Crop Diseases

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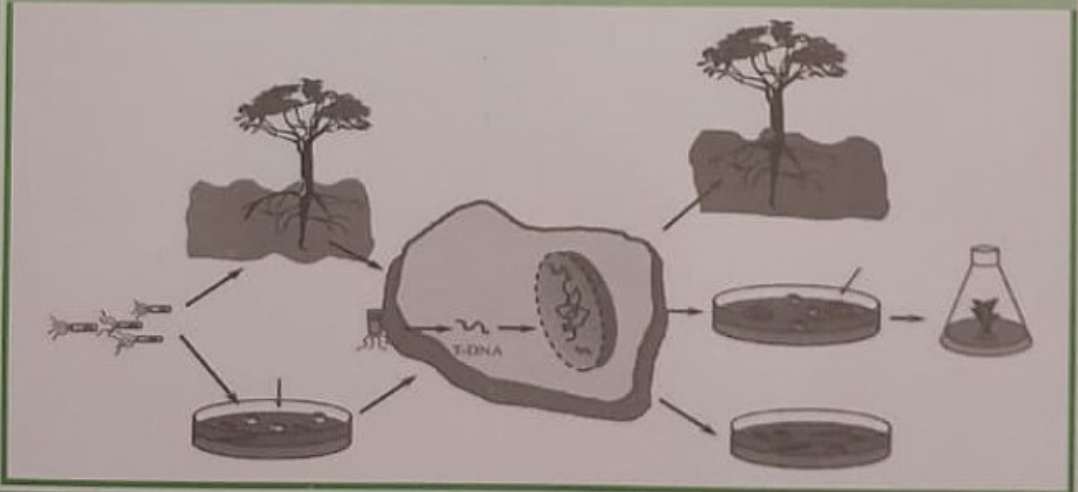
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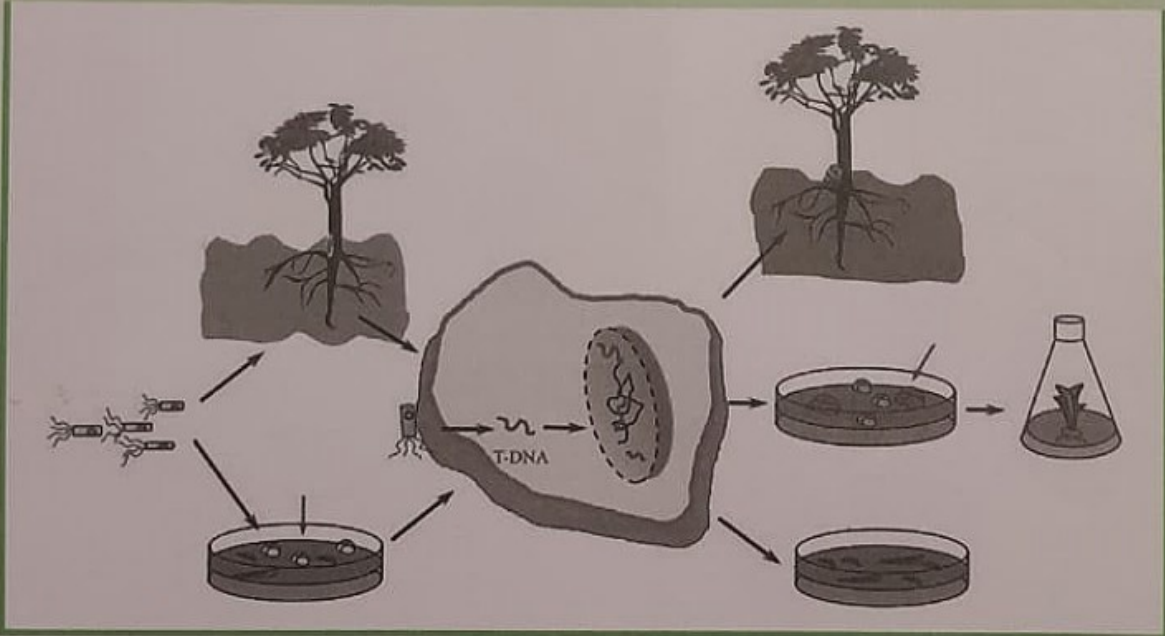
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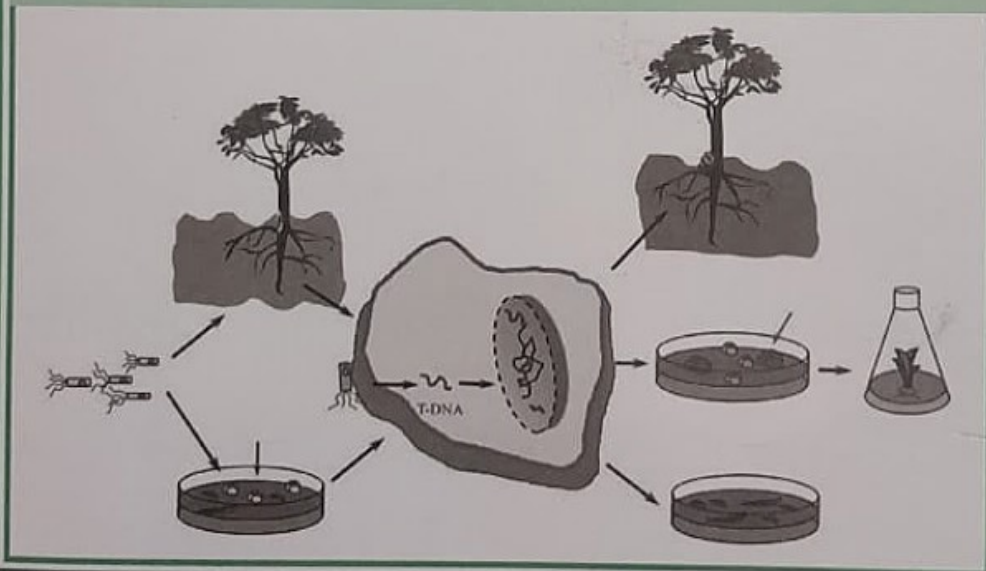
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