

Competitive Nematology

Dr. N.G. Ravichandra



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COMPETITIVE NEMATOTOLOGY



About the Author:

Dr. N.G. Ravichandra, Professor of Plant Pathology and Scheme Head, All India Co-ordinated Research Project (Nematodes), Department of Plant Pathology, University of Agricultural Sciences, GKVK, Bengaluru, Karnataka, India, is involved in teaching, research and extension activities of Plant Nematology.

Dr. N.G. Ravichandra has 242 scientific research papers to his credit, published in National and International journals. He has authored six text books in Plant Pathology & Nematology, contributed chapters to eleven text books, edited five books and 12 chapters in Nematology and also authored ten books in Kannada.

Dr. N.G. Ravichandra is responsible for identifying and reporting a new species of root-knot nematode (*Meloidogyne enterolobii*) on Guava and a new host, Lac plant (*Flemingia semialata* L.) for root-knot nematode (*Meloidogyne incognita*) from Karnataka. These are the new and first reports in India.

Dr. N.G. Ravichandra has been bestowed with the “Eminent Scientist Award” for the year 2018 for his research accomplishments and contributions. He has been recognized as the International Editor for the prestigious International journal ‘Research Journal of Plant Pathology’ published from California. He is also rewarded as the National Editor for the eminent journal ‘Indian Phytopathology’. He is responsible for developing eight technologies for the management of root-knot nematodes infecting tomato, brinjal and rice, which have been included in the Package of Practices of University of Agricultural Sciences, Bengaluru, Karnataka, India.

Dr. N.G. Ravichandra has participated and presented original research papers on various aspects of plant diseases in National and International conferences. He has operated research projects funded by the Department of Bio-Technology & Indian Council of Agricultural Research, New Delhi, India as Principal Investigator and Co- Principal Investigator. He has undergone advanced training programs sponsored by the Department of Biotechnology & Indian Council of Agricultural Research, New Delhi, India. He is an active life member of professional societies including Nematological Society of India, Indian Phytopathological Society, Society of Mycology & Plant Pathology, National Environmental Science Academy and Institute of Agricultural Technology.

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DR. N.G. RAVICHANDRA

*Professor of Plant Pathology
& Head, AICRP (Nematodes)
Agricultural College, GKVK
University of Agricultural Sciences,
Bangalore-560 065, Karnataka*



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Foreword

Plant-parasitic nematodes are hidden enemies of crops. Nematodes, either alone or in combination with other pathogens, constitute an important constraint to world food production.

Plant Nematology is taught as a major subject in Undergraduate and Postgraduate degree programmes in Agricultural and Horticultural Universities. It is also a subject for various competitive examinations / entrance tests at All India Level including M. Sc. (Agri./Hort.), Ph.D.(Agri./Hort.), Agricultural Scientists Recruitment Board, Public Service Commission, Central Plant Quarantine, State Departments of Agriculture, Horticulture, Sericulture and Forestry apart from the recruitments in Pesticides, Seed and fertilizers industries. Students and candidates appearing for these examinations are in search of a book that fulfils their needs.

This book entitled “Competitive Nematology” covers the syllabus prescribed by the Indian Council of Agricultural and Research, New Delhi. It serves as a ready reckoner for various competitive examinations. Important aspects of Nematology courses from UG & PG Degree Programmes have been covered in the form of different question patterns including the multiple choice, true or false, matching and essay type. Answer key has been provided. In addition, a summary of the prominent historical developments in Nematology along with a detailed glossary of Nematological terms has been furnished. A list of pertinent reference books has also been included for further reading. As a supplement, appendices on major Nematological Journals and Societies, common names of predominant phytonematodes, conversion table and scoring procedure for root-knot and lesion nematodes has also been furnished for the benefit of the readers.

I am happy to note that this book is the first of its kind in India. I compliment Dr.N.G.Ravichandra for making an important contribution to the science of Nematology and congratulate him for his maiden efforts. I am sure, this book will be well received by all those preparing for competitive and entrance examinations.

(Dr. S. Rajendra Prasad)

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