

About the Authors

Dr. J.D.S. Panwar, born on January 1st 1947. Graduated from Agra University (1966), Masters degree (Agricultural Botany) in 1968 from Meerut University and Ph.D. from Indian Agricultural Research Institute (IARI) in Plant Physiology with (i) Agronomy, (ii) Horticulture as minor subject. Joined IARI, Plant Physiology in 1971 and served the Institute in various capacities as Scientist, Senior Scientist, Principal Scientist and as Head, Division of Crop Physiology, Biochemistry and Microbiology at Indian Institute of Pulse Research (IIPR), Kanpur for a period 5 years (2001-2006). Retired as Head, Division of Plant Physiology, Indian Agricultural Research Institute (IARI), New Delhi (January 31st, 2009). He was engaged in research for 37 years. Teaching 19 years and guided to M.Sc. and Ph.D. students at IARI, New Delhi and IIPR Kanpur and CCS University, Meerut. He has published more than hundred research articles in research journals of National and International repute and participated in 14 International conferences. He has International exposure to work with Dr. J.E. Harper, Professor in Agronomy, USDA on nodulation and nitrogen fixation and senescence in soybean using N15 tracer technique at University of Illinois, Urbana Champaign, USA as UNDP/FAO fellow. He worked on drought management on chickpea in collaboration with ICRISAT Scientists and also on Indo-Australian Project on chickpea drought management, Principal Investigator (Chickpea Physiology) in all India Coordinated Research Project on chickpea for five years. He served as Principal Investigator in NATP Project on nodulation, nitrogen fixation in cereal crops and various institutional projects held from time to time at IARI New Delhi. He served the Indian Society for Plant Physiology (ISPP) and Indian Society of Pulse Research and Development (ISPRD) in various capacities as Treasure, Vice-President and President of ISPP and Editor-in-chief, ISPRD, Kanpur. He is a fellow of ISPP and ISPRD 1993 onward, awarded as ISPP, G.S. Sirohi best paper publication award (2003) and also as expert/members of academic and administrative bodies at National level including various agricultural universities such as board of studies for C.C.S. University, Meerut and BHU, Varanasi etc. He has organized two summer Institutes at Division of Plant Physiology, IARI New Delhi and IIPR, Kanpur. His field of Interest is drought management, biological nitrogen fixation, use of microbes for enhancing crop productivity and root traits associated with various physiological activities in pulses and other crops. He has published two books on Physiology and Microbiology.

Dr. Amit Kumar Jain, Assistant Professor in Microbiology, J.V. College, Baraut, Baghpat, UP is very hardworking, sincere and innovative researcher and teacher. He is teaching undergraduate (UG) and post graduate (PG) courses with great dedication to the great satisfaction of the students and actively involved in all teaching and research activities. He has participated in various seminar/symposia held by different societies and presented papers from time to time. He did his B.Sc. and M. Sc. (Botany) degree from CCS University, Meerut. He has obtained Ph.D. degree in Botany in 2005 from CCS University, Meerut. He has published a lot of research articles in Journals of repute, and many book chapters edited by various authors and also one book on Microbiology. He is the member of many research societies. Presently, he is pursuing D.Sc. degree in Botany from CCS University, Meerut.

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