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Dr. Alexios N. Polidoros received his PhD in 1993, from the Dept. of Genetics and Plant Breeding of Aristotle University of Thessaloniki (AUTH), studying molecular aspects of heterosis in maize. Then he moved to the Department of Genetics, North Carolina State University where he was appointed Research Assistant in John Scandalios' lab, studying antioxidant gene responses to abiotic stress for more than 4 years (1994-1998). Returning to Greece he was appointed Research Associate at the Dept. of Genetics and Plant Breeding of AUTH (1999-2000) and then elected Senior Researcher at the Institute of Agrobiotechnology (currently Institute of Applied Biosciences) of the Centre for Research and Technology Hellas (CERTH) where he worked for 8 years (2001-2008). He moved to AUTH as an Assistant Professor in 2009 and is currently a Professor of Molecular Breeding and Director of the Genetics and Plant Breeding laboratory at the School of Agriculture, AUTH. He is teaching the undergraduate courses of Molecular Biology and Plant Breeding and the graduate courses of Genomics and Molecular Breeding. He has long experience and expertise in the fields of Plant Molecular Biology, Genetics, Breeding and Biotechnology. His research interests include:

- Genomics, Genetics, Epigenetics, Molecular plant breeding, Bioinformatics, Phenomics.
- Genotyping, biodiversity assessment, DNA marker technology, Plant Development, new concepts in breeding: hologenome selection.
- Biotic and abiotic stress defense in plants and role of antioxidant mechanisms.
- Establishment of principles and criteria for breeding stress tolerant crop plants.

He has published more than 100 scientific articles, including research papers in international journals, chapters in books and international studies that have received wide recognition in the scientific literature. He has presented his work at many scientific conferences and workshops, and participated in organizing an International Workshop and an International Conference with a special section for Agrobiotechnology. He has received funding and participated as coordinator or team member in 12 national and 3 European competitive research projects. He has coordinated, in 2018, the establishment and serves as the elected Director of a new Graduate Studies Program at the School of Agriculture entitled: Genetics, Plant Breeding and Production of Plant Propagation Material.

He has been elected member of the Scientific Research Society Sigma Xi. He was elected board member of the Hellenic Genetics and Plant Breeding Society (2012-2016) and served as Secretary General (2012-2014). He is a member of the editorial board of the SCI journals Redox Report and Plant Science and referee in more than 15 scientific journals. He has been member of the Scientific Council of the Institute for Agrobiotechnology (2001-2009) and participated in several panels and committees for evaluating research programs. He is a member of several scientific organizations and Societies including the Federation of European Societies of Plant Biologists (since 2002), the European Federation of Biotechnology, Agri-Biotechnology Section (since 2000), the DNA Methylation Society (since 1999), the Geotechnical Chamber of Greece (since 1989), the Hellenic Genetics and Plant Breeding Society (since 1990).