

## ***CURRICULUM VITAE* of Massimo E. Maffei**

Massimo Maffei is Full Professor of Plant Physiology (05/A2), Scientific Disciplinary Sector BIO/04, at the Department of Life Sciences and Systems Biology of the University of Turin (Course of Studies in Biological Sciences). Hired at the University of Turin as a Graduate Technician in 1984, in 1989 he was research associate for the Faculty of Veterinary Medicine of the University of Turin. In March 1992 he was Associate Professor of plant morphology and physiology at the Faculty of Sciences of Turin. In October 2000 he took up service at the Department of Plant Biology as full professor of Plant Physiology.



From 2017 to 2018 he was Director of the Doctoral School of Nature Sciences and Innovative Technologies. From 2012 to 2016 he was Coordinator of the PhD in Pharmaceutical and Biomolecular Sciences. From July 2012 to February 2014 he was Deputy Director for Research of the Department of Life Sciences and Systems Biology. From 2000 to 2006 Prof. Maffei was Vice Dean of the Faculty of Mathematical, Physical and Natural Sciences. From 2000 to 2006 he was Director of the Department of Plant Biology. From October 2003 to December 2006 he was coordinator of the Ministerial Center of Excellence for Plant and Microbial Biosensing (CEBIOVEM). Since December 2021 he is member of the International Research And Innovation Advisory Board of the Università Campus Bio-Medico di Roma.

From July 1987 to June 1988 he was postdoctoral research associate at the Institute of Biological Chemistry of Washington State University under the supervision of the Director Prof. Rodney Croteau. From 1990 to 1993 he held, as Visiting Professor at the Mediterranean Agronomic Institute of Chania (Crete), a series of lectures on the Ecology of adaptation, metabolism, biochemistry and physiology of secondary metabolites in the post-graduate course entitled "Biology and utilization of aromatic plants in the Mediterranean area".

The scientific activity of Prof. Maffei follows a research program on the Physiology and Biochemistry of Plants with special reference to plant responses to environmental stress. Main topics are secondary metabolites (terpenoids, cuticular constituents, phenolic compounds and alkaloids) and astrobiology (plant responses to magnetic fields). The research is centered in the ERC field LS - Life Sciences with particular reference to LS2\_8 Transcriptomics, LS1\_10 Molecular mechanisms of signalling pathways, LS2\_10 Metabolomics, LS1\_6 Lipid biology, LS2\_9 Proteomics and LS9\_1 Applied biotechnology (including transgenic organisms, applied genetics and genomics, biosensors, bioreactors, microbiology, bioactive compounds). Research is accomplished using various techniques and methodologies: biochemical-enzymological, biological-molecular, chromatographic, spectrophotometric and mass spectrometry, HPLC, LC-MS / MS, FPLC, electrophysiology, computerized image analysis, statistical-biometric methods, optical microscopy, electron and confocal microscopy, immunocytochemical techniques.

He is the author of over 200 scientific publications in JCR journals. [orcid.org/0000-0001-6814-2353](https://orcid.org/0000-0001-6814-2353)

The metrics from Scopus (May 2022) are: 227 Documents by author; 8,034 Citations by 6,251 documents and 45 h-index

The metrics from Publons (May 2022) are: publications in web of science: 184; sum of times cited: 6,768; H-index: 43; average citations per item: 36.8; average citations per year: 188.3; papers with  $\geq 100$  citations: 18.

The review paper published on the effect of magnetic fields on plants scored (May 2022) more than 140,000 views, more than 11,000 downloads, 141 citations and an altmetric value of 63 (<http://loop-impact.frontiersin.org/impact/article/104293#totalviews/views>).

In 1999 he published the textbooks: *Biochimica Vegetale* (Piccin) and *Metabolismo e Prodotti Secondari delle Piante* (UTET), in 2015 the textbook *Molecole Bioattive delle Piante* (Amazon) and in 2018 the textbook

Bioactive Plant Molecules (Cambridge Scholar, UK); he is also the editor of two monographs published by Taylor and Francis entitled "The Genus Vetiveria" and "Dietary Supplements of Plant Origin". He translated from English all the editions of the textbook "Plant Physiology" by Taiz and Zeiger and the text "Plant, genes, and agriculture" by Chrispeels and Sadava (Piccin). He is author of 8 patents.

He won the state competition for the establishment of 11 Italian Centers of Excellence and was the Coordinator of the CoE CEBIOVEM with a financial support of 1.7M € from 2003 to 2006.

He was the PI of a PRIN2006 grant on "Basi Molecolari e Segnali Sistemici nella Risposta della Pianta all'Attacco Patogeno: il Modello Riso-*Magnaporthe grisea*"

He teaches Plant Physiology and Astrobiology at the School of Biology of the University of Turin.

He is a corresponding member of the Academy of Agriculture the University of Turin and of the Academy of Sciences of the University of Turin, and a member of the Italian Society of Plant Biology.

He is the Editor in Chief of the international JCR journal "Journal of Plant Interactions" (Taylor & Francis, London). He is a member of the editorial board of the international "Journal of Essential Oil Research" and of the "International Journal of Molecular Sciences". He is reviewer of numerous international journals and editor of many special issues.