

Short CV of Prof. AMEDEO ALPI



Name: Amedeo

Surname: ALPI

Degree: PhD in Plant biology

Position : Full Professor in Plant physiology

Institution:

A. *University of Pisa:*

- Faculty of Agriculture:
- Department of Crop Biology:
- Section of Plant Physiology:

Main Fields of scientific interest:

- a) synthesis and mode of action of plant hormones
- b) sugar sensing and signalling
- c) plants responses to anaerobiosis at transcriptomic and proteomic level
- d) plants responses to low temperature at transcriptomic and proteomic level

Title and short description of current scientific projects:

- a) transcript profiling of the anoxic or ipoxic rice organs
- b) identification of proteins from proteome of *Arabidopsis thaliana* in relation to changing enviromental parameters

Responsibilities: Director of Laboratory

Curriculum Vitae:

- A. *Biography*: borne in Grosseto, October 7 1941. Alumni of the Scuola Superiore Sant'Anna, Pisa. Graduated in Agriculture at the University of Pisa in 1964. University assistant in 1968; associate professor in Plant physiology in 1974; full professor in 1981.
Experiences abroad: Michigan State University, East Lansing (U.S.A.) from 1969 to 1971
University of California, Santa Cruz (U.S.A.) 1979-1980
Dean of the Faculty of Agriculture of the University of Pisa from 1995 to 2002
Co-ordinator of several CNR research projects; involved in the european projects of frame IV, V, VI.
Acting Director of the CNR Institute for Virus and Biosynthesis in Plants, Milano in 1975 and of the CNR Institute for Mutagenesis and Differentiation, Pisa in 1998-99.
Member of several Committee of the Ministry of Health and Ministry of Agriculture
President of the Italian Society of Plant Physiology (1985-1989); President of the Federation of European Societies of Plant Physiology (1998-99)
- B. *Research*: my research has been related for long time with hormonal relations in plants; particularly the research was dealing with the effect of low temperature in the gibberellin metabolism in boubous crops. Main efforts were done for GA identification by the combined use of Gas-chromatography and Mass-spectrometry. GA biosynthesis was also realized with cell-free systems of *Phaseolus coccineus* seeds and in particular with the suspensor tissue.
Other research line has been the plant peroxisomes physiology with particular emphasis on the transition from leaf peroxisomes to glyoxysomes.
Much effort has been dedicated to abiotic stress resistance using molecular biology approach (mainly transcriptomic) using the model plant *Arabidopsis thaliana*.
Recently a proteomic approach to the problems has been initiated using 2D Gel Electrophoresis and Mass spectrometry.
- C. *Publications*: Author or co-author of more than 150 papers published on the most relevant Journals in the field of plant physiology/biochemistry/molecular biology.
- D. *Awards*: Member of several academies, in particular he is member of the Accademia Nazionale delle Scienze detta dei XL
- E. *Patents*: P. Perata, A. Alpi, A. Pinchera, M. Tonacchera, S. Gonzali, E. Loreti: "Piante transgeniche accumulanti Iodio" (Transgenic plants accumulating iodine), Italian Patent RM2005A000155
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