

Curriculum vitae of Roberto Arrigoni

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WORK EXPERIENCE

- Dates (from – to) DECEMBER 2001 - TODAY
- Name and address of employer Institute of Biomembrane and Bioenergetics of the Italian National Council of Research (IBBE – CNR), Bari, Italy
- Occupation or position held Researcher - III level
- Main activities and responsibilities Research in biochemistry and molecular biology

EDUCATION AND TRAINING

- Dates (from – to) May 2007
- Name and type of organisation providing education and training Max Planck Institut fur Molekulare Pflanzenphysiologie, Potsdam-Golm, Germany in the laboratories headed by Dr. Alisdair Fernie
- Position Visiting researcher
- Principal subjects Studies on the role of mitochondrial transporters in plants and isolation of mitochondria from *Arabidopsis thaliana* seedlings.
- Dates (from – to) October 1999 – July 2000
- Name and type of organisation providing education and training Medical Research Council, Cambridge, UK in the laboratories headed by Sir John Walker FRS
- Position Visiting researcher
- Principal subjects New over-expression and purification techniques of mitochondrial carriers
- Dates (from – to) October 1997 – February 2001
- Name and type of organisation providing education and training Department of Pharmaco-Biology, University of Studies of Bari, Italy.
- Title awarded Ph.D. degree in Cellular biochemistry and cellular pharmacology. Scientific tutor, Prof. Ferdinando Palmieri
- Principal subjects Organization and sequence of the gene for the human mitochondrial dicarboxylate carrier: evolution of the carrier family
- Dates July 1997
- Name and type of organisation providing education and training University of Studies of Bari, Italy.
- Title awarded Bachelor's degree in Biological Science. Scientific tutor, Prof. Laura De Gara
- Principal subjects Ascorbic acid system

TEACHING EXPERIENCE

- Dates (from – to) 2005 - TODAY
- Name and address of employer Faculty of Pharmacy and Nutritional and Health Science, University of Studies of Calabria, Arcavacata di Rende, Italy
- Occupation or position held Professor
- Main activities and responsibilities Molecular Biology course
- Dates (from – to) 2006 - TODAY
- Name and address of employer Faculty of Pharmacy and Nutritional and Health Science, University of Studies of Calabria, Arcavacata di Rende, Italy
- Occupation or position held Professor
- Main activities and responsibilities DNA Recombinant Technology course

GRANT

- Dates (from – to) 2005 - 2007
- Name and address of employer Italian National Council of Research (CNR)

Research interests

- Structural and evolutionistic analysis of genes encoding mitochondrial transporters.
- Studies on the expression and subcellular localization of mitochondrial transporters in plants and other eukaryotic organisms.
- Identification of new eukaryotic genes encoding the mitochondrial transporters: cloning, over-expression in *E. coli* or *S. cerevisiae*, purification and functional characterization of their gene product.

Publications

Fiermonte G, Dolce V, Arrigoni R, Runswick MJ, Walker JE, Palmieri F. Organization and sequence of the gene for the human mitochondrial dicarboxylate carrier: evolution of the carrier family. *Biochem J.* 1999 344, 953-60.

Palmieri L, Santoro A, Carrari F, Blanco E, Nunes-Nesi A, Arrigoni R, Genchi F, Fernie AR, Palmieri F (2008). Identification and characterization of ADNT1, a novel mitochondrial adenine nucleotide transporter from *Arabidopsis*. *Plant Physiology*, 148: 1797–1808.

Palmieri L, Picault N, Arrigoni R, Besin E, Palmieri F and Hodges M (2008).Molecular identification of three *Arabidopsis* mitochondrial dicarboxylate carrier isoforms: organ distribution, bacterial expression, reconstitution into liposomes and functional characterization. *Biochemical J.* 410: 621-9.

Palmieri L, Arrigoni R, Blanco E, Carrari F, Zanor MI, Studart-Guimareas C, Fernie AR, Palmieri F (2006). Molecular identification of an S-Adenosylmethionine transporter. Analysis of organ distribution, bacterial expression, reconstitution into liposomes, and functional characterization. *Plant Physiology*, 142: 855-865.

Palmieri L, Todd CD, Arrigoni R, Hoyos ME, Santoro A, Polacco JC, Palmieri F (2006). *Arabidopsis* have two basic amino acid transporters with partially overlapping specificities and differential expression in seedling development. *BBA - Bioenergetics.* 1575: 1277-83.

Hoyos ME, Palmieri L, Wertin T, Arrigoni R, Polacco JC, Palmieri F (2003). Identification of a mitochondrial transporter for basic amino acids in *Arabidopsis thaliana* by functional reconstitution into liposomes and complementation in yeast. *Plant J.* 33: 1027-35.

Arrigoni R, Arrigoni O Multicopper oxidases: an innovative approach for oxygen management of aerobic organism. *Rend. Fis. Acc. Lincei*, 2010 21, 71-80