

ALESSANDRA ALBERTINI is full Professor of Genetics at the University of Pavia since 2005, from November 2009 to December 2011 she was Head of the Department of Genetics and Microbiology. From December 1st, 2012 is Head of the Department of Biology and Biotechnology “L. Spallanzani” and member of the University Assembly (Senato Accademico).

Graduated in Biology in 1974 at the University of Pavia, in 1977 she obtained her Degree in Biophysics, Physics Specialization School, of the same University.

From 1975 to 1980 she was granted a Post-doctoral fellowship from the Italian Education Ministry (MPI) to work at Institute of Genetics of the University of Pavia.

From 1980 to 1982 she was granted of an EMBO Post-doctoral fellow at the Dep. of Molecular Biology at the University of Geneva, CH.

From 1983 to 1987 was Researcher at the Department of Genetics and Microbiology, University of Pavia.

In 1987-91 she was Associate Professor of Genetics, Faculty of Agricultural Sciences at the University of Udine.

From 1991 to 2005 was Associate Professor of Molecular Genetics and Genetics for the Biological Sciences and Biotechnology Degrees, University of Pavia, Faculty of Sciences.

Her research interests concern, in the fields of Bacterial Genetics and Biotechnology, the regulation of NAD synthesis in *B. subtilis*; expression and mutagenesis of heterologous proteins in bacteria (MUTYH, hMutY); expression, mutagenesis and immobilization of enzymes for biocatalysis (phosphorylases, acylases, ribonucleotide reductases); chromosomal technologies for Gram+; *B. subtilis* genome sequencing and systematic functional analysis; molecular genetics of *Bacillus thuringiensis* entomopathogenic toxin; expression and *in vivo* recombination of heterologous genes in *Bacillus subtilis*; regulation of the expression of genes involved in *Bacillus subtilis* spore germination and outgrowth; molecular origin of chromosomal amplification and deletion mutations in prokaryotes; informational extragenic suppression of non sense mutations in *E. coli*.

Together with A. Galizzi, she took part in two EU research projects, SCIENCE and BIOTECH, on *Bacillus subtilis*. She coordinated a MIUR PRIN project in 2000 and she participated to other two (PRIN 2002 and 2004), from 2009-12 she was granted of a FAMT (Fondazione Almamater) research fund and from 2015-18 of a Bussolera-Branca research fund.

She is Member of the American Society of Microbiology, the Italian Genetics Association, the Italian Microbiology and Microbial Biotechnology Association, referee for several international scientific journals (BMC Microbiology, Journal of Bacteriology, Applied and Environmental Microbiology, FEMS Microbiology Letters, Annals of Microbiology, Industrial Biotechnology) and granting agencies (ERC, EU; National Science Foundation, USA; Ministero Italiano dell'Università e Ricerca, University of Padua, Italy).

Author or co-author of 89 papers, 59 with indexing (h-Index, 25. i-10 index, 37. 7026 citations), several meeting abstracts and 2 patents.

Skills and research fields

- Genetics and genomics of microorganisms
- Genetic improvement of bacterial strains producing primary and secondary metabolites
- Targeted mutagenesis