

## Publicazioni recenti e più significative

Biagiotti M, Borghese G, Francescato P, Morelli C F, Albertini AM, Bavaro T, Ubiali D, Mendichi R and Speranza G. Esterification of poly( $\gamma$ -glutamic acid) ( $\gamma$ -PGA) mediated by its tetrabutylammonium salt. RSC Adv., , 6, 43954-43958. doi: 10.1039/C6RA08567A, 2016

Barbieri G, Albertini AM, Ferrari E, Sonenshein AL, Belitsky BR. Interplay of CodY and ScoC in the Regulation of Major Extracellular Protease Genes of *Bacillus subtilis*. J Bacteriol. Jan 4;198(6):907-20. doi: 10.1128/JB.00894-15, 2016

Belitsky BR, Barbieri G, Albertini AM, Ferrari E, Strauch MA, Sonenshein AL. Interactive regulation by the *Bacillus subtilis* global regulators CodY and ScoC. Mol Microbiol., Aug;97(4):698-716. doi: 10.1111/mmi.13056 4.419, 2015

Barbieri G, Voigt B, Albrecht D, Hecker M, Albertini AM, Sonenshein AL, Ferrari E, Belitsky BR. CodY regulates expression of the *Bacillus subtilis* extracellular proteases Vpr and Mpr. J Bacteriol. Apr;197(8):1423-32. doi: 10.1128/JB.02588-14. 2.808, 2015

Ubiali D., Morelli C.F., Rabuffetti M., Cattaneo G., Serra I., Bavaro T., Albertini A.M. and Speranza G. Substrate Specificity of a Purine Nucleoside Phosphorylase from *Aeromonas hydrophila* Toward 6-Substituted Purines and its Use as a Biocatalyst in the Synthesis of the Corresponding Ribonucleosides, Curr. Org. Chem. 19 (22): 2220 – 2225,. 2.157, 2015

Serra I., Ubiali D., Cecchini D.A., Calleri E., Albertini A.M., Terreni M., Temporini C. Assessment of immobilized PGA orientation via the LC-MS analysis of tryptic digests of the wild type and its 3K-PGA mutant assists in the rational design of a high-performance biocatalyst. Anal Bioanal Chem. Jan; 405(2-3):745-53. doi: 10.1007/s00216-012-6143-z , 2013

Serra I., Bavaro T., Cecchini D. A., Daly S., Albertini A.M., Terreni M., Ubiali D., A Comparison between Immobilized Pyrimidine Nucleoside Phosphorylase from *Bacillus subtilis* and Thymidine Phosphorylase from *Escherichia coli* in the Synthesis of 5-Substituted Pyrimidine 2'-Deoxyribonucleosides. Journal of Molecular Catalysis B: Enzymatic, 95, 16-22, DOI information: 10.1016/j.molcatb.2013.05.007, 2013

Serra I., Ubiali D., Piskur J., Christoffersen S., Lewkowicz E., Iribarren A. M., Albertini A. M, Terreni M., Developing a Collection of Immobilized Nucleoside Phosphorylases for the preparation of Nucleoside Analogues: Enzymatic Synthesis of Arabinosyladenine and 2',3'-Dideoxyinosine, Chem Plus Chem, 78 (2), 157-165. DOI: 10.1002/cplu.201200278, 2013

Serra I., Ubiali D., Cecchini D.A., Calleri E., Albertini A.M., Terreni M., Temporini C. Assessment of immobilized PGA orientation via the LC-MS analysis of tryptic digests of the wild type and its 3K-PGA mutant assists in the rational design of a high-performance biocatalyst. Anal Bioanal Chem., 405(2-3):745-53, DOI: 10.1007/s00216-012-6143-z, 2012

Ubiali D., Serra C.D., Serra I., Morelli C.F., Terreni M., Albertini A.M., Manitto P. and Speranza G. Production, characterization and synthetic applicatio of a purine nucleoside phosphorylase from *Aereomonas hydrophyla*. Adv Synth. Catal. 354, 96-1041, 2012

D'Agostino V., Minoprio A., Torreri P., Marinoni I., Bossa C., Petrucci T.C. , Albertini A. M., Ranzani G. N., Bignami M., Mazzei F. (Functional analysis of MUTYH mutated proteins

associated with familial adenomatous polyposis. *DNA Repair*. 9(6):700-7, 2010

Molatore S., Russo M.T., D'Agostino V., Barone F., Matsumoto Y., Albertini A.M., Minoprio A., Degan P., Mazzei F., Bignami M. and Ranzani G.N. MUTYH mutations associated with familial adenomatous polyposis: functional characterization by a mammalian cell-based assay. *Hum. Mut.* 31: 159-166, 2010

Serra I., Cecchini D.A., Ubiali D., Manazza E., Albertini A.M. and Terreni M. Coupling of site-directed mutagenesis and immobilization for the rational design of more efficient biocatalysts: the case of immobilized 3G3K PGA from *E. coli*. *Eur. J. Org. Chem.* 9:1384 -1389, 2009

Marinoni I., Nonnis S., Monteferrante C., Heathcote P., Hartig E., Bottger L.H., Trautwein A.X., Negri A., Albertini A.M. and G. Tedeschi. Characterization of L-aspartate oxidase and quinolinate synthase from *Bacillus subtilis*. *FEBS Journal*, 275: 5090-5107, 2008

Cecchini D. A., Serra I., Ubiali D., Terreni M., Albertini A.M. New active site oriented glyoxyl-agarose derivatives of *Escherichia coli* penicillin G acylase. *BMC Biotechnology*, 7: 54-58, 2007

Hartig E., Hartmanz A., Schatzle M., Albertini A.M. and Jahn D. The *Bacillus subtilis nrdEF* genes, encoding a class Ib ribonucleotide reductase, are essential for aerobic and anaerobic growth. *Appl Environ Microbiol.*, 72(8):5260-5, 2006

Scaramozzino F., Estruch I., Rossolillo P. Terreni M. and Albertini A.M. Improvement of catalytic properties of *Escherichia coli* penicillin G acylase immobilized on glyoxyl agarose by addition of a six-amino-acid tag. *Appl Environ. Microbiol. Dec*; 71(12):8937-40, 2005

Rossolillo P., Marinoni I., Galli E., Colosimo A. and Albertini A.M. YrxA is the transcriptional regulator that represses de novo NAD biosynthesis in *Bacillus subtilis*. *J Bacteriol.*, 187(20):7155-60, 2005

Ubiali D., Rocchietti S., Scaramozzino F., Terreni M., Albertini A. M., Fernández-Lafuente R., Guisán J. M., Pregnotato M. Synthesis of 2'-Deoxynucleosides by Transglycosylation with New Immobilized and Stabilized Uridine Phosphorylase and Purine Nucleoside Phosphorylase. *Advanced Synthesis & Catalysis*, 346 (11): 1361-1366, 2004

Rocchietti S., Ubiali D., Terreni M., Albertini A.M., Fernandez-Lafuente R., Guisan J.M., Pregnotato M. Immobilization and stabilization of recombinant multimeric uridine and purine nucleoside phosphorylases from *Bacillus subtilis*. *Biomacromolecules*. Nov- 5(6):2195-2200, 2004

Westers H., Dorenbois R., Van Dijn J.M., Kabel J., Flanagan T., Devine K.M., Jude .F, Seror S.J., Beekman A.C., Darmon E., Eschevins C., De Jong A., Bron S., Kuipers O.P., Albertini A.M., Antelmann H., Hecker M., Zamboni N., Sauer U., Bruand C., Ehrlich D.S., Alonso J.C., Salas M., Quax W.J. Genome Engineering Reveals Large Dispensable Regions in *Bacillus subtilis*. *Mol Biol Evol.* 20: 2076-2090, 2003

Kobayashi K., Ehrlich S.D., Albertini A., Amati G., Andersen K.K., Arnaud M., Asai K, Ashikaga S., Aymerich S, Bessieres P, Boland F, Brignell SC, Bron S, Bunai K, Chapuis J, Christiansen LC, Danchin A. et al.. Essential *Bacillus subtilis* genes. *Proc. Natl. Acad. Sci. PNAS U S A.* 100(8): 4678-83, 2003

Kunst F., Ogasawara N., Moszer I., Albertini A.M., Alloni G., Azevedo V., Bertero M.G., Bessieres P., Bolotin A., Borchert S., Borriss R., Boursier L., Brans A., Braun M., Brignell S.C., Bron S., Brouillet S., Bruschi C.V., Caldwell B., Capuano V., Carter N.M., Choi S.K., Codani J.J., Connerton I.F., Danchin A., et al. The complete genome sequence of the gram-positive bacterium *Bacillus subtilis*. *Nature*, 390:249-56, 1997