

Cinzia Calvio publications

C. Calvio authored 25 publications on international journals, six of which as corresponding author (*), that received 1422 citations, with i10-index 13. She presented her work in many international conferences.

1. Engineering endogenous fermentative routes in ethanologenic *Escherichia coli* W for bioethanol production from concentrated whey permeate. Pasotti L., De Marchi D., Casanova M., Massaiu I., Bellato M., Cusella De Angelis MG., **Calvio C.**, Magni P. *New Biotechnology* 2020-04 DOI: 10.1016/j.nbt.2020.02.004
2. Developing a Novel Enzyme Immobilization Process by Activation of Epoxy Carriers with Glucosamine for Pharmaceutical and Food Applications. Serra I., Benucci I., Robescu MS., Lombardelli C., Esti M., **Calvio C.**, Pregnotato M., Terreni M., Bavaro T. *Catalysts* 2019; 9:843. DOI: 10.3390/catal9100843
3. Effect of the inserted active-site-covering lid loop on the catalytic activity of a mutant *B. subtilis* γ -glutamyltransferase (GGT). Massone M., **Calvio C.**, Rabuffetti M., Speranza G., Morelli CF. *RSC Advances* 2019; 9: 34699-34709. DOI: 10.1039/C9RA05941E
4. Integration of enzymatic data in *Bacillus subtilis* genome-scale metabolic model improves phenotype predictions and enables in silico design of poly- γ -glutamic acid production strains. Massaiu I., Pasotti L., Sonnenschein L, Rama E., Cavaletti M., Magni P., **Calvio C.**, Herrgård M.J. *Microbial Cell Factories* 2019; 18:3. DOI: 10.1186/s12934-018-1052-2
5. The structure of PghL hydrolase bound to its substrate poly- γ -glutamate. Ramaswamy S., Rasheed M., Morelli C.F., **Calvio C.***, Sutton B.J., Pastore A. *FEBS J.* 2018; 285:4575-4589. DOI: 10.1111/febs.14688
6. Data for the synthesis of oligo- γ -glutamylglutamines as model compounds for γ -glutamyltransferases (GGTs) and for normalization of activities of different GGTs. **Calvio C.**, Romagnuolo F., Vulcano F., Speranza G., Morelli CF. *Data in Brief* 2018; 21:576-581. DOI: 10.1016/j.dib.2018.09.116.
7. Evidences on the role of the lid loop of γ -glutamyltransferases (GGT) in substrate selection. **Calvio C.**, Romagnuolo F., Vulcano F., Speranza G., Morelli CF. *Enzyme and microbial technology* 2018; 114:55-62. DOI: 10.1016/j.enzmictec.2018.04.001.
8. BioBrick™-Compatible Vector for Allelic Replacement Using the XylE Gene as Selection Marker. Casanova, M., Pasotti L., Zucca S., Politi N., Massaiu I., **Calvio C.**, Cusella De Angelis M.G., Magni P. *Biological Procedures Online* 2016; 18:6. DOI 10.1186/s12575-016-0036-z
9. Metal Leaching and Reductive Dissolution of Iron from Contaminated Soil and Sediment Samples by Indigenous Bacteria and *Bacillus* Isolates. Styriakova I., Styriak I., Balestrazzi A., **Calvio C.**, Fae M., Styriakova D. *Soil & Sediment Contamination* 2016; 25:519-535. DOI: 10.1080/15320383.2016.1170102
10. γ -PGA Hydrolases of Phage Origin in *Bacillus subtilis* and Other Microbial Genomes. Mamberti S., Prati P., Cremaschi P., Seppi C., Morelli C.F., Galizzi A., Fabbi M., **Calvio C.***. *PLoS ONE* 2015; 10(7):e0130810. DOI: 10.1371/journal.pone.0130810.
11. pH-Dependent hydrolase, glutaminase, transpeptidase and autotranspeptidase activities of *Bacillus subtilis* γ -glutamyltransferase. 2013. Morelli C.F., **Calvio C.**, Biagiotti M., Speranza G. *FEBS Journal* 2014; 281:232-45. DOI: 10.1111/febs.12591.
12. The Role of SwrA, DegU and PD3 in *fla*/che Expression in *B. subtilis*. Mordini S., Osera C., Marini S., Scavone F., Bellazzi R., Galizzi A., **Calvio C.*** *PLoS ONE* 2013; 8(12):e85065. DOI: 10.1371/journal.pone.0085065.
13. Knockout of *pgdS* and *ggt* genes improves γ -PGA yield in *B. subtilis*. Scoffone V., Dondi D., Biino G., Pasini D., Galizzi A., **Calvio C.*** *Biotechnology and Bioengineering* 2013; 110:2006-12. DOI: 10.1002/bit.24846.

14. Spore-forming bacteria in soil cultivated with GM white poplars: Isolation and characterization. Bonadei M., **Calvio C.**, Carbonera D., Galizzi A., Quattrini E., Balestrazzi A. *Folia Microbiologica* 2010; 55:39-46. DOI: 10.1007/s12223-010-0007-8.
15. DNA extraction from soil: comparison of different methods using spore-forming bacteria and the *swrAA* gene as indicators. Balestrazzi A., Bonadei M. **Calvio C.**, Galizzi A., Carbonera D. *Annals of Microbiology* 2009; 59:827-832. DOI: 10.1007/BF03179230.
16. Leaf-associated bacteria from transgenic white poplar producing resveratrol-like compounds: Isolation, molecular characterization, and evaluation of oxidative stress tolerance. Balestrazzi A., Bonadei M., **Calvio C.**, Mattivi F., Carbonera D. *Canadian Journal of Microbiology* 2009; 55:829-40. DOI: 10.1139/w09-038.
17. SwrAA activates poly- γ -glutamate synthesis in addition to swarming in *Bacillus subtilis*. Osera C., Amati G., **Calvio C.***, Galizzi A. *Microbiology sgm* 2009; 155:2282-7. DOI: 10.1099/mic.0.026435-0.
18. Autoregulation of *swrAA* and Motility in *Bacillus subtilis*. **Calvio C.***, Osera C., Amati G., Galizzi A. *Journal of bacteriology* 2008; 190:5720-8. DOI: 10.1128/JB.00455-08.
19. Recovery of useful traits from isolates inhabiting an agricultural soil cultivated with herbicide-resistant poplars. Balestrazzi A., Bonadei M., Zelasco S., Quattrini E., **Calvio C.**, Galizzi A., Carbonera D. *Canadian Journal of Microbiology* 2008; 54:201- 8. DOI: 10.1139/w07-136.
20. Swarming Differentiation and Swimming Motility in *Bacillus subtilis* Are Controlled by *swrA*, a Newly Identified Dicistronic Operon. **Calvio C.**, Celandroni F., Ghelardi E., Amati G., Salvetti S., Cecilian F., Galizzi A., Senesi S. *Journal of Bacteriology* 2005; 187:5356-66. DOI: 10.1128/JB.187.15.5356-5366.2005.
21. WT1 interacts with the splicing factor U2AF in an isoform-dependent manner and can be incorporated into spliceosomes. Davies R.C., **Calvio C.**, Bratt E., Larsson S.H., Lamond A.I., Hastie N.D. *Genes & Development* 1998; 12:3217-25. DOI: 10.1101/gad.12.20.3217.
22. Mass spectrometry and EST-database searching allows characterization of the multi-protein spliceosome complex. *Nat. Genet.* 20, 46-50. Neubauer G., King A., Rappsilber J., **Calvio C.**, Watson M., Ajuh P., Sleeman J., Lamond A.I., Mann M. *Nature Genetics* 1998; 20:46-50. DOI: 10.1038/1700.
23. Identification of hnRNP P2 as TLS/FUS using electrospray mass spectrometry. **Calvio C.**, Neubauer G., Mann M., Lamond A.I. *RNA* 1995; 1:724-33.
24. Uncovering the role of Ser/Thr protein phosphorylation in nuclear pre-mRNA splicing. Mermoud J.E, **Calvio C.**, Lamond A.I. In: *Advances in Protein Phosphatases* 1994; 8: 99-118, Merlevede Ed. LEUVEN: Leuven University Press
25. Phosphorylation of human hnRNP A1 abrogates in vitro strand annealing activity. Cobianchi F., **Calvio C.**, Stoppini M., Buvoli M., Riva S. *Nucleic Acids Research* 1993; 21. DOI: 10.1093/nar/21.4.949