

Articoli scientifici su riviste con Comitato di Redazione internazionale e Impact Factor

- 1) Pagliarulo C., Salvatore P., De Vitis L.R., Colicchio R., Monaco C., Tredici S.M., **Talà A.**, Bardaro M., Lavitola A., Bruni C.B. Alifano P. Regulation and differential expression of *gdhA* encoding NADP-specific glutamate dehydrogenase in *Neisseria meningitidis* clinical isolates. *Molecular Microbiology*, 51:1757-1772 (2004).
- 2) Belloni F., Nassisi V., Alifano P., Monaco C., **Talà A.**, Tredici S.M., Rainò A. A suitable plane transmission line at 900 MHz rf fields for *E. coli* DNA studies. *Review of Scientific Instruments*, 76: 054302 - 6 (2005); ripubblicato come "selected paper" in *Virtual Journal of Biological Physics Research*, 9(9) (2005).
- 3) **Talà A.**, Belloni F., Monaco C., Lorusso A., Nassisi V., Alifano, P. Effects of XeCl UV_{308nm} laser radiation on survival and mutability of *recA*-proficient and *recA*-defective *Escherichia coli* strains. *Radiation Research*, 165: 532 – 537 (2006).
- 4) Monaco C., **Talà A.**, Spinoza M.R., Progida C., De Nitto E., Bucci C., Bruni C.B., Alifano, P. Identification of a meningococcal L-glutamate ABC transporter operon essential for growth in low-sodium environments. *Infection and Immunity*, 74(3):1725-40 (2006).
- 5) Belloni F., Doria D., Lorusso A., Nassisi V., Velardi L., Alifano P., Monaco C., **Talà A.**, Tredici S.M., Rainò A. Experimental analysis of a TEM plane transmission line for DNA studies at 900 MHz EM fields. *Journal of Physics D: Applied Physics*, 39(13): 2856-2861 (2006).
- 6) Spinoza M.R., Progida C., **Talà A.**, Cogli L., Alifano P., Bucci C. The *Neisseria meningitidis* capsule is important for intracellular survival in human cells. *Infection and Immunity*, 75(7):3594-603 (2007).
- 7) Vigliotta G., **Talà A.**, Giudetti A.M., De Stefano M., Del Giudice L., Alifano P. The impact of environmental perturbation on microbial community structure and dynamics: Factors affecting growth of *Clonothrix fusca* in groundwater. *Journal of Plant Interaction*, 2(3): 159 - 167 (2007).
- 8) Sansone C., Massardo D.R., Pontieri P., Maddaluno L., De Stefano M., Tredici S.M., **Talà A.**, Alifano P., Del Giudice L. Isolation of a psychrotolerant *Debaryomyces Hansenii* strain from fermented tea plant (*Camellia sinensis*) leaves. *Journal of Plant Interaction*, 2(3): 169 - 174 (2007).
- 9) Alifano P., Lorusso A., Nassisi V., **Talà A.**, Tredici S.M. Application of XeCl308nm excimer laser radiation to mutagenesis of industrial microorganisms. *Radiation Effects & Defects in Solids*, Vol. 163, No. 6, 1–7 (2008).
- 10) Stabili L., Gravili C., Tredici S.M., Piraino S., **Talà A.**, Boero F., Alifano P. Epibiotic *Vibrio* luminous bacteria isolated from some Hydrozoa and Bryozoa species. *Microbial Ecology*, Nov;56(4):625-36 (2008).
- 11) Colucci A.M.R., Peracino B., **Talà A.**, Bozzaro S., Alifano P. Bucci C. *Dictyostelium discoideum* as a model host for meningococcal pathogenesis. *Medical Science Monitor* , Jul;14(7):134-140 (2008).
- 12) Del Giudice L., Massardo D.R., Pontieri P., Berteau C.M., Mombello D., Carata E., Tredici S.M., **Talà A.**, Mucciarelli M., Groudeva V.I., De Stefano M., Vigliotta G., Maffei M.E., Alifano P. The microbial community of Vetiver root and its involvement into essential oil biogenesis. *Environ Microbiol*, Oct;10(10):2824-41 (2008).
- 13) **Talà A.**, De Stefano M., Bucci C., Alifano P. Reverse transcriptase-PCR differential display analysis of meningococcal transcripts during infection of human cells: up-regulation of *priA* and its role in intracellular replication. *BMC Microbiol*, Jul 29;8:131 (2008).
- 14) **Talà A.**, Progida C., Spinoza M.R., Bucci C., Alifano P. The HrpB-HrpA two-partner secretion system is essential for intracellular survival of *Neisseria meningitidis*. *Cell Microbiol*, Dec;10(12):2461-82 (2008).
- 15) **Tala' A.**, Wang G., Zemanova M., Okamoto S., Ochi K., Alifano P. Activation of dormant genes by *Nomonuraea* ATCC 39727 "mutant type" RNA polymerase. *J Bacteriol*, Feb;191(3):805-14 (2009).
- 16) Carata E., Peano C., Tredici SM., Ferrari F., **Talà A.**, Corti G., Bicciato S., De Bellis G., Alifano P. Phenotypes and gene expression profiles of *Saccharopolyspora erythraea* rifampicin-resistant (rif) mutants affected in erythromycin production. *Microb Cell Fact*, Mar 30;8:18 (2009).

- 17) Colicchio R., Ricci S., Lamberti F., Pagliarulo C., Pagliuca C., Braione V., Braccini T., **Talà A.**, Montanaro D., Tripodi S., Cintorino M., Troncone G., Bucci C., Pozzi G., Bruni C.B., Alifano P., Salvatore P. The meningococcal ABC-type L-glutamate transporter GltT is necessary for the development of experimental meningitis in mice. *Infect Immun.*, 77(9):3578-87 (2009).
- 18) Alifano P., Del Giudice L., **Talà A.**, De Stefano M., Maffei M.E.. Microbes at work in perfumery: the microbial community of Vetiver root and its involvement in essential oil biogenesis. *Flavour and Fragrance Journal*, 5:121-122 (2010).
- 19) Alifano P., **Talà A.** Microbes at work in perfumery: odorous compounds from free-living and symbiotic bacteria living on plants and humans. *Household and Personal Care today*, 1(3) (2010).
- 20) Alifano P., Nassisi V., Siciliano M.V., **Talà A.**, Tredici S.M. Unexpected photoreactivation of *Vibrio harveyi* bacteria living in ionization environment. *Journal of Applied Physics*, 109:104703 (2011).
- 21) **Talà A.**, Monaco C., Nagorska K., Exley R.M., Corbett A., Zychlinsky A., Alifano P., Tang C.M. Glutamate utilization promotes meningococcal survival in vivo through avoidance of the neutrophil oxidative burst. *Mol Microbiol.*, 81(5):1330-42 (2011).
- 22) Peano C., **Talà A.**, Corti G., Pasanisi D., Durante M., Mita G., Bicciato S., De Bellis G., Alifano P. Comparative genomics and transcriptional profiles of *Saccharopolyspora erythraea* NRRL2338 and a classically improved erythromycin over-producing strain. *Microb Cell Fact*. Mar 8;11(1):32 (2012).
- 23) Paladini F., Pollini M., **Talà A.**, Alifano P., Sannino A. Efficacy of silver treated catheters for haemodialysis in preventing bacterial adhesion. *J Mater Sci Mater Med*, Aug;23(8):1983-90 (2012).
- 24) Nassisi V., Alifano P., **Talà A.**, and Velardi L. Radiofrequency transmission line for bioluminescent *Vibrio* sp. Irradiation. *J. Appl. Phys*, 112, 014702 (2012).
- 25) **Talà A.**, Lenucci M.S., Gaballo A., Durante M., Tredici S.M., Debowles D.A., Pizzolante G., Marcuccio C., Carata E., Piro G., Carpita N.C., Mita G., Alifano P. *Sphingomonas cynarae* sp. nov., the producer of an unusual type of sphingan. *Int J Syst Evol Microbiol*, Jan;63(Pt 1):72-9 (2013).
- 26) Delle Side D., Velardi L., Nassisi V., Pennetta C., Alifano P., **Talà A.** and Tredici S.M. Bacterial bioluminescence and Gumbel statistics: From quorum sensing to correlation. *Appl. Phys. Lett*, 103, 253702 (2013).
- 27) **Talà A.**, Cogli L., De Stefano M., Cammarota M., Spinoza M.R., Bucci C., Alifano P. Serogroup-specific Interaction of *Neisseria meningitidis* Capsular Polysaccharide with Host Cell Microtubules and Effects on Tubulin Polymerization. *Infect Immun*. Jan;82(1):265-74 (2014).
- 28) **Talà A.**, Delle Side D., Buccolieri G., Tredici S.M., Velardi L., Paladini F., De Stefano M., Nassisi V., Alifano P. Exposure to Static Magnetic Field Stimulates Quorum Sensing Circuit in Luminescent Vibrio Strains of the Harveyi Clade. *PLoS One*. Jun 24;9(6) (2014).
- 29) Delle Side D., Nassisi V., Giuffreda E., Velardi L., Alifano P., **Talà A.** and S.M. Tredici. Highly Antibacterial UHMWPE Surfaces by Implantation of Titanium Ions Nuclear. *Instruments and Methods in Physics Research B*, July, 331:172–175 (2014).
- 30) Delle Side D., Nassisi V., Giuffreda E., Velardi L., Alifano P., **Talà A.**, Tredici S. M. Antibacterial properties of composite UHMWPE/{TiO}_{2-x} surfaces. *APPLIED PHYSICS A, MATERIALS SCIENCE & PROCESSING*, vol. 117, p. 191-196, (2014).
- 31) Alifano P., Palumbo C., Pasanisi D., **Talà A.** Rifampicin-resistance, rpoB polymorphism and RNA polymerase genetic engineering. *J Biotechnol*, May 20;202:60-77 (2015).
- 32) Colicchio R., Pagliuca C., Pastore G., Cicatiello A.G., Pagliarulo C., **Talà A.**, Scaglione E., Sammartino J.C., Bucci C., Alifano P., and Salvatore P. Fitness Cost of Rifampin Resistance in *Neisseria meningitidis*: In Vitro Study of Mechanisms Associated with rpoB H553Y Mutation. *Antimicrob Agents Chemother*. Dec;59(12):7637-7649 (2015).

- 33) Delle Side D., Giuffreda E., Tredici S.M., **Talà A.**, Pennetta C., Alifano P. Quorum Sensing: Complexity in the bacterial world. *Chaos, Solitons & Fractals*, Volume 81, Part B, Pages 551–555 (2015).
- 34) D'Argenio V., Petrillo M., Pasanisi D., Pagliarulo C., Colicchio R., **Talà A.**, de Biase M.S., Zanfardino M., Scolamiero E., Pagliuca C., Gaballo A., Cicatiello A.G., Cantiello P., Postiglione I., Naso B., Boccia A., Durante M., Cozzuto L., Salvatore P., Paolella G., Salvatore F., Alifano P. The complete 12 Mb genome and transcriptome of Nonomuraea gerenzanensis with new insights into its duplicated "magic" RNA polymerase. *Sci Rep*, Dec 21;6(1):18 (2016).
- 35) Fondi M., Pinatel E., **Talà A.**, Damiano F., Consolandi C., Mattorre B., Fico D., Testini M., De Benedetto G.E., Siculella L., De Bellis G., Alifano P., Peano C. Time-Resolved Transcriptomics and Constraint-Based Modeling Identify System-Level Metabolic Features and Overexpression Targets to Increase Spiramycin Production in *Streptomyces ambofaciens*. *Front Microbiol*, May 12;8:835 (2017).
- 36) Delle Side D., Nassisi V., Pennetta C., Alifano P., Di Salvo M., **Talà A.**, Chechkin A., Seno F., Trovato A. Bacterial bioluminescence onset and quenching: a dynamical model for a *quorum sensing*-mediated property. *R Soc Open Sci*, Dec 13;4(12):171586 (2017).
- 37) Di Salvo M., Pinatel E., **Talà A.**, Fondi M., Peano C., Alifano P. G4PromFinder: an algorithm for predicting transcription promoters in GC-rich bacterial genomes based on AT-rich elements and G-quadruplex motifs. *BMC Bioinformatics*, Feb 6;19(1):36 (2018).
- 38) Calcagnile M., Bettini S., Damiano F., **Talà A.**, Tredici S.M., Pagano R., Di Salvo M., Siculella L., Fico D., De Benedetto G.E., Valli L., and Alifano P. Stimulatory Effects of Methyl- β -cyclodextrin on Spiramycin Production and Physical-Chemical Characterization of Nonhost@Guest Complexes, *ACS Omega*, 3, 2470–2478 (2018).
- 39) **Talà A.**, Damiano F., Gallo G., Pinatel E., Calcagnile M., Testini M., Fico D., Rizzo D., Sutera A., Renzone G., Scaloni A., De Bellis G., Siculella L., De Benedetto G.E., A.M. Puglia, Peano C., Alifano P. Pirin: a novel redox-sensitive modulator of primary and secondary metabolism in *Streptomyces*. *Metabolic Engineering*. Jun 23;48:254-268 (2018).
- 40) Pizzolante G., Durante M., Rizzo D., Di Salvo M., Tredici S.M., Tufariello M., De Paolis A., **Talà A.**, Mita G. Alifano P., De Benedetto G.E. Characterization of two *Pantoea* strains isolated from extra-virgin olive oil. *AMB Express*, 8:113 (2018).