Welcome to Medina's Home Page

Prof. Ricardo Medina Marrero BSc, MSc.

Professor of Microbiology.
Antimicrobial Drug Discovery and Development. Chemogenomics.

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QUALIFICATIONS

Bachelor of Science (B.Sc): Pharmaceutical Sciences, Central University of Las Villas. Santa Clara. Villa Clara. Cuba, 7/91.

Master of Science (M.Sc): Molecular Microbiology, Autonomous University of Barcelona. Barcelona. Spain, 10/01.

Language: Mother Tongue: Spanish Second Language: English (TOEFL=587)

EXPERTISE AND CURRENT WORK INTERESTS

Main teaching interest: My current teaching interest includes Microbiology as well as Molecular Biology and Pharmacology.

Main research interest: My current research interest is in the area of antimicrobial drug discovery and development using both rational computational approaches as well as discovery from natural sources. I am also interested in applying chemogenomic knowledge as a powerful tool for drug discovery.

Some Selected Publications…

Medina, R.; *et al.* In vitro evaluation of G-1: A novel antimicrobial compound. International Journal of Antimicrobial Agents 1999; 11 (2):163-6.

Medina, R.; *et al.* Comparación del Efecto Postantibiótico del G-1 y la Gentamicina frente a cepas de *Staphylococcus aureus* y *Escherichia coli*. Acta Farmacéutica Bonaerense 2000; 19 (3): 225-30.

Medina, R.; *et al.* The high-affinity zinc-uptake system *znu*ACB is under control of the iron-uptake regulator (*fur*) gen in the animal pathogen *Pasteurella multocida*. FEMS Microbiol Lett 2003; 221 (1):31-7.

Medina, R.; *et al. fur*-independent regulation of the *Pasteurella multocida hbpA* gene encoding a haemin-binding protein. Microbiology 2003; 149 (Pt 8):2273-81.

Medina-Marrero, R.; *et al.* Protein linear indices of the 'macromolecular pseudograph α-carbon atom adjacency matrix' in bioinformatics. Part 1: Prediction of protein stability effects of a complete set of alanine substitutions in Arc repressor. Bioorg Med Chem 2005; 13 (8):3003-15.

****Medina-Marrero, R.**; *et al.* Atom, atom-type, and total nonstochastic and stochastic quadratic fingerprints: a promising approach for modeling of antibacterial activity" Bioorg Med Chem 2005; 13 (8):2881-2899.

** **World's 7th most requested article in 3rd quarter of 2005 according to the American Chemical Society** (http://www.cas.org/spotlight/rlist3q05j/rlist3q05j.html).

Marrero, RM.; *et al.* Non-stochastic and stochastic linear indices of the molecular pseudograph's atom-adjacency matrix: a novel approach for computational *in silico* screening and "rational" selection of new lead antibacterial agents. J Mol Model (Online) 2006; 12(3):255-71.