

SEM Council Members

Name:

Adela G. de la Campa

Council role:

President of the Molecular Microbiology Group

Employer or Institute:

Centro Nacional de Microbiología (ISCIII) y
Presidencia (CSIC), Madrid, Spain

Title:

Research Scientific



Main areas of study/word:

Bacterial molecular genetics. Mechanisms of antibiotic action. Molecular bases of antibiotic resistance. Regulation of transcription by supercoiling.

Three main or most recent publications:

Ferrándiz MJ, Martín-Galiano AJ, Schvartzman JB, de la Campa AG. 2010. The genome of *Streptococcus pneumoniae* is organized in topology-reacting gene clusters. *Nucleic Acids Research* 38:3570-3581. doi.org/10.1093/nar/gkq106.

Ferrándiz MJ, de la Campa AG. 2014. The fluoroquinolone levofloxacin triggers the transcriptional activation of iron transport genes that contributes to cell death in *Streptococcus pneumoniae*. *Antimicrobial Agents Chemotherapy* 58:247-257. doi.org/10.1128/AAC.01706-13.

Ferrándiz MJ, Martín-Galiano AJ, Arnanz C, Camacho-Soguero I, Tirado-Vélez JM, de la Campa AG. 2016. An increase in negative supercoiling in bacteria reveals topology-reacting gene clusters and a homeostatic response mediated by the DNA topoisomerase I gene. 2016. *Nucleic Acids Research* 44:7292-7303. doi.org/10.1093/nar/gkw602.

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Keywords:

Antimicrobials. Antibiotic resistance. DNA topoisomerases. Transcription regulation.