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PUBLICACIONES CIENTÍFICAS MÁS RELEVANTES
(desde 2010)

Garcillán-Barcia, M.P.; Pluta, R.; Lorenzo-Díaz, F.; Bravo, A. and Espinosa M. (2022). The facts and family secrets of plasmids that replicate via the rolling-circle mechanism. *Microbiol. Mol. Biol. Rev.* 86:e00222-20.

Solano-Collado, V.; Ruiz-Cruz, S.; Lorenzo-Díaz, F.; Pluta, R.; Espinosa, M. and Bravo, A. (2021). Recognition of streptococcal promoters by the pneumococcal SigA protein. *Front. Mol. Biosci.* 8:666504.

Li, J, Wang, J, Ruiz-Cruz, S, Espinosa, M, Zhang, J and Bravo, A (2020). *In vitro* DNA inversions mediated by the PsrA site-specific tyrosine recombinase of *Streptococcus pneumoniae*. *Front. Mol. Biosci.* 7:43

Ruiz-Cruz, S, Moreno-Blanco, A, Espinosa, M and Bravo, A (2019). Transcriptional activation by MafR, a global regulator of *Enterococcus faecalis*, *Sci. Rep.* 9: 6146

Bravo, A.; Ruiz-Cruz, S.; Alkorta, I. and Espinosa, M. (2018). When humans met superbugs: Strategies to tackle bacterial resistances to antibiotics. *BioMol. Concepts* 9: 216-226.

Ruiz-Cruz, S, Moreno-Blanco, A, Espinosa, M and Bravo, A (2018). DNA-binding properties of MafR, a global regulator of *Enterococcus faecalis*. *FEBS Lett.* 592: 1412-1425

Prieto, A.; Bernabeu, M.; Aznar, S.; Ruiz-Cruz, S.; Bravo, A.; Queiroz M.H.; Juárez, A. (2018). Evolution of bacterial global modulators: role of a novel H-NS paralogue in the enteroaggregative *Escherichia coli* strain 042. *mSystems* 3: e00220-17.

Lorenzo-Díaz, F, Fernández-López, C, Guillén-Guío, B, Bravo, A and Espinosa, M (2018). Relaxase MobM induces a molecular switch at its cognate origin of transfer. *Front. Mol. Biosci.* 5:17

Lorenzo-Díaz, F, Fernández-López, C, Lurz, R, Bravo, A and Espinosa, M (2017). Crosstalk between vertical and horizontal gene transfer: plasmid replication control by a conjugative relaxase. *Nucleic Acids Res.* 45: 7774-7785

Solano-Collado, V, Hüttener, M, Espinosa, M, Juárez, A and Bravo, A (2016). Mga*Spn* and H-NS: Two unrelated global regulators with similar DNA-binding properties. *Front. Mol. Biosci.* 3:60
Published also as eBook Chapter in "Modulating Prokaryotic Lifestyle by DNA-Binding Proteins" (2017). T Venkova, A Juárez and M Espinosa, eds. Lausanne: Frontiers Media. doi: 10.3389/978-2-88945-105-0

Ruiz-Cruz, S, Espinosa, M, Goldmann, O and Bravo, A (2016). Global regulation of gene expression by the MafR protein of *Enterococcus faecalis*. *Front. Microbiol.* 6:1521

Scheb-Wetzel, M, Rohde, M, Bravo, A and Goldmann, O (2014). New insights into the antimicrobial effect of mast cells against *Enterococcus faecalis. Infect. Immun.* 82: 4496-4507

Fernández-López, C.; Bravo, A.; Ruiz-Cruz, S.; Solano-Collado, V.; Garsin, D. A.; Lorenzo-Díaz, F. and Espinosa, M. (2014). Mobilizable rolling-circle replicating plasmids from Gram-positive bacteria: a low-cost conjugative transfer. *Microbiol Spectrum* 2(5): PLAS-0008-2013.

Solano-Collado, V, Lurz, R, Espinosa, M and Bravo, A (2013). The pneumococcal Mga*Spn* virulence transcriptional regulator generates multimeric complexes on linear double-stranded DNA. *Nucleic Acids Res.* 41: 6975-6991

Fernández-López, C.; Lorenzo-Díaz, F.; Pérez-Luque, R.; Rodríguez-González, L.; Boer, R.; Lurz, R.; Bravo A.; Coll, M. and Espinosa, M. (2013). Nicking activity of the pMV158 MobM relaxase on cognate and heterologous origins of transfer. *Plasmid* 70: 120-130.

Solano-Collado, V, Espinosa, M and Bravo, A (2012). Activator role of the pneumococcal Mga-like virulence transcriptional regulator. *J. Bacteriol.* 194: 4197-4207

Lorenzo-Díaz, F.; Solano-Collado, V.; Lurz, R.; Bravo, A. and Espinosa, M. (2012). Autoregulation of the synthesis of the MobM relaxase encoded by the promiscuous plasmid pMV158. *J. Bacteriol.* 194: 1789-1799.

Ruiz-Cruz, S, Solano-Collado, V, Espinosa, M and Bravo A (2010). Novel plasmid-based genetic tools for the study of promoters and terminators in *Streptococcus pneumoniae* and *Enterococcus faecalis*. *J. Microbiol. Methods* 83: 156-163

PROYECTOS

PID2019-104553RB-C21 (Ministry of Science and Innovation), PI: A. Bravo
Broadening and deepening our understanding of global regulators in opportunistic bacteria.
CIB-CSIC, Start date: 01/06/2020 (3 years)

BIO2016-76412-C2-2-R (Ministry of Economy and Competitiveness), PI: A. Bravo
Paralogues and orthologues of global modulators: Role in the bacterial lifestyle
CIB-CSIC, Start date: 30/12/2016 (3 years) (extended time: 9 months)

BIO2015-69085-REDC (Ministry of Economy and Competitiveness)
Interactivities between plasmid modules and bacterial chromosomes: a due visit
Barcelona University, Start date: 01/12/2015 (3 years)
Coordinator: A. Juárez (five groups), A. Bravo: PI

BIO2013-49148-C2-2-R (Ministry of Economy and Competitiveness), PI: A. Bravo
Bacterial virulence regulation by proteins that recognize local DNA conformations
CIB-CSIC, Start date: 01/01/2014 (3 years)

PIE 201320E028 (CSIC), PI: A. Bravo
Mechanism of transcriptional regulation mediated by the Mga*Efa* protein
CIB-CSIC, Start date: 01/01/2013 (3 years)

BFU2009-11868 (Ministry of Science and Innovation), PI: A. Bravo
Global virulence regulators of the Mga/AtxA family in *S. pneumoniae* and *E. faecalis*
CIB-CSIC, Start date: 01/01/2010 (3 years)

PIE201020E030 (CSIC), PI: A. Bravo
Molecular characterization of the virulence regulator Mga*Spn* of *S. pneumoniae*
CIB-CSIC, Start date: 01/01/2010 (3 years)

CCG08-CSIC/SAL-3694 (CAM-CSIC), PI: A. Bravo
Global virulence regulation in *Streptococcus pneumoniae*
CIB-CSIC, Start date: 01/01/2009 (1 year)

CSD2008-00013, CONSOLIDER-INTERMODS (Ministry of Science and Innovation)
Interactivity of plasmid modules and the genomes of bacterial pathogens
CIB-CSIC (2008-2015)
Coordinator: M. Espinosa (five groups), A. Bravo: Responsible for Objective 4