

PERSONAL DATA

Surnames: Zorraquino Salvo
Name: Violeta
Telephone: 0034 - 666 891 857
Date of Birth: 11/09/1984
Current Address: C/Comunidad la Rioja, 26.
Barañain (Navarra) - Spain
E-mail: violeta.zorraquino@unavarra.es
Citizenship: Spanish (EU citizen)

EDUCATION

2008-2012 Phd in Biotechnology, Universidad Pública de Navarra (Spain).



- In Microbial Biofilms laboratory under supervision of Prof. Iñigo Lasa.
- The thesis obtained a mark of *cum laude*.
- Finalist in Three Minute Thesis competition.

2006-2008 Master in Biotechnology, Wageningen Universiteit (The Netherlands).



- Specialization in molecular and cellular biotechnology.
- The thesis obtained a mark of 9.

2003- 2006 Agricultural Engineer, Universidad Pública de Navarra (Spain).



- The thesis obtained a mark of 10.

WORK EXPERIENCE

07/2008-09/2012 Researcher at CSIC



- In the Microbial Biofilms laboratory under the supervision of Iñigo Lasa and Cristina Solano.

07/2006-09/2006 Laboratory technician at UPNA



- Microbial laboratory technical support.

01/2006-06/2006 Assistant in microbiology practical courses at UPNA



- Technical support.
- Preparation of the practical courses.

LANGUAGES

English: Fluent.
Spanish: Native.
German: Basic.
Chinese: Basic.

COURSES

2010 **Host-Microbes interactions** (EMBO/FEBS Lecture course)



Tutorials on DNA sequencing technologies, imaging...

2007 **First Aid** (Fremap).



Basic knowledge to act in case of labor accident.

2007 **Risk prevention from biological risk** (CSIC),



Focused on the use of genetically modified organisms (GMO).

TECHNICAL FORMATION

Molecular biology techniques: DNA and RNA extraction from different biological samples, primer design, PCR, sequencing, quantitative PCR, RT-PCR, cloning, generation of genetic tools for protein expression, site directed mutagenesis, random mutagenesis.

Protein analysis techniques: Production and purification of recombinant proteins, SDS-PAGE, Western blotting, Coomassie and silver staining, Far Western blotting, protein identification, pull-down assays for protein interactions, protein tagging, immunofluorescence.

Tissue culture: Basic use of flow cytometry.

Microscopy: Basic use of confocal microscopy, fluorescence microbiology, image analysis, video recording.

Bioinformatics: analysis of DNA and protein sequences, basic statistical analysis.

PUBLICATIONS

- **Violeta Zorraquino**, Begoña García, Cristina Latasa, Maite Echeverz, Alejandro Toledo-Arana, Jaione Valle, Iñigo Lasa and Cristina Solano. *Coordinated c-di-GMP repression of Salmonella motility through YcgR and cellulose*. Journal of Bacteriology. Published ahead of print 16 November 2012.

** Article selected for micro commentary and highlighted by the ASM.

- Fabian Blombach, Helene Launay, **Violeta Zorraquino**, Daan C. Swarts, Lisa D. Cabrita, Dario Benelli, John Christodoulou, Paola Londei, and John van der Oost. *An HflX-Type GTPase from Sulfolobus solfataricus Binds to the 50S Ribosomal Subunit in All Nucleotide-Bound States*. Journal of Bacteriology. June 2011 ; 193:2861-2867.

- Cristina Solano, Begoña García, Cristina Latasa, Alejandro Toledo-Arana, **Violeta Zorraquino**, Jaione Valle, Joan Casals, Enrique Pedroso and Iñigo Lasa. *Genetic reductionist approach for dissecting individual roles of GGDEF proteins within the c-di-GMP signaling network in Salmonella*. PNAS. May 2009; 106: 197997-8002

PATENT

- Cristina Solano, Begoña García, Alejandro Toledo-Arana, Cristina Latasa, **Violeta Zorraquino**, Jaione Valle, Iñigo Lasa. PROTOCOL TO PRODUCE MULTIPLE MODIFICATIONS IN THE CHROMOSOME OF GRAM NEGATIVE BACTERIA AND *SALMONELLA* STRAINS DEFICIENT ON c-di-GMP PRODUCTION OBTAINED WITH THIS PROTOCOL. PCT/ES2008/070211.

CONFERENCES

- García, B., Solano, C., Latasa, C., **Zorraquino, V.**, Penadés, J., and Lasa, I. *Análisis de la equivalencia funcional de las proteínas GGDEF de Salmonella enteritidis*. XXI Congreso Nacional de Microbiología. Sevilla (España). 17-20 de Septiembre. 2007.
- Fabian Blombach, Hao Wu, Lei Sun, **Violeta Zorraquino**, Stan Brouns, Xuejun Zhang, Zihe Rao, and John van der Oost. *HflX GTPases: interacting with the translation machinery*. *Molecular biology of Archaea*. University St Andrews (GB). 19-21 August 2008.
- **Zorraquino, V.**, García, B., Latasa, C., Lasa, I. and Solano, C. *Estudio del papel de las proteínas GGDEF en la virulencia de Salmonella*. VII Reunión de Microbiología Molecular Cádiz (Spain). September 2008
- García, B., Solano, C., Latasa, C., Toledo-Arana, A., **Zorraquino, V.**, Valle, J., Casals, J., Pedroso, E. and Lasa, I. *Análisis transcriptómico de la ruta de señalización del mensajero secundario c-di-GMP*. VII Reunión de Microbiología Molecular. Cádiz (Spain). September 2008
- C. Solano, B. García, C. Latasa, A. Toledo-Arana, **V. Zorraquino**, J. Valle and I. Lasa. *Dissection of c-di-GMP signalling in Salmonella*. Eurobiofilms 2009 Rome (Italy). September 2009.
- **Violeta Zorraquino**, Begoña García, Cristina Latasa, Jaione Valle, Alejandro Toledo-Arana, Iñigo Lasa and Cristina Solano. *Estudio de la regulación de la síntesis de c-di-GMP por las proteínas GGDEF en Salmonella*. SEM 2009. Almería (Spain). September 2009.

- Cristina Solano, Begoña García, Cristina Latasa, Alejandro Toledo-Arana, **Violeta Zorraquino**, Jaione Valle, Joan Casals, Enrique Pedroso and Iñigo Lasa. *Dissection of c-di-GMP signaling in Salmonella*. SEM 2009 Almería (Spain). September 2009.

- Cristina Solano, Begoña García, Cristina Latasa, Alejandro Toledo-Arana, **Violeta Zorraquino**, Jaione Valle and Iñigo Lasa. *Contribution of GGDEF domain proteins signaling network to Salmonella biology*. Pathogenomics 2010. Pecs (Hungria). April 2010.

- **Violeta Zorraquino** and Iñigo Lasa. *Identification of c-di-GMP targets involved in Salmonella motility*. Host-Microbes interactions (EMBO/FEBS Lecture course)..Spetses Island (Greece). September 2010.

- C. Latasa, C. Solano, B. García, **V. Zorraquino**, A. Toledo-Arana, J. Valle and Iñigo Lasa. *Design of bacteria "à la carte" for the development of live attenuated Salmonella vaccines*. Biospain 2010. Pamplona (Spain). September 2010.

- C. Solano, J. Valle, A. Toledo-Arana, B. García, C. Latasa, M. Vergara, M. Villanueva, **V. Zorraquino**, I. Ruiz de los Mozos and Iñigo Lasa. *Biotechnology of biofilms: strategies to control the bacterial community life style*. Biospain 2010. Pamplona (Spain). September 2010.

- A. Toledo-Arana, M. Villanueva, I. Ruiz de los Mozos, J. Valle, C. Solano, C. Latasa, B. García, M. Vergara, **V. Zorraquino** and Iñigo Lasa. *Unravelling the secrets of bacterial transcriptome for identification of new targets against bacterial pathogens*. Biospain 2010. Pamplona (Spain). September 2010.

- J. Valle, B. García, C. Solano, A. Toledo-Arana, C. Latasa, M. Vergara, M. Villanueva, **V. Zorraquino**, I. Ruiz de los Mozos and Iñigo Lasa. *Micro-nano patterned surfaces for bacterial adherence control applications*. Biospain 2010. Pamplona (Spain). September 2010.

- **V. Zorraquino**, Begoña García, Cristina Latasa, Jaione Valle, Alejandro Toledo-Arana, Iñigo Lasa and Cristina Solano. *Estudio del mecanismo de inhibición de la movilidad de Salmonella mediado por c-di-GMP*: VIII Reunión del grupo de Microbiología Molecular Barcelona (Spain) 10-12 Noviembre 2010

- **Zorraquino, V.**, García, B., Latasa, C., Valle, J., Toledo-Arana, A., Lasa, I. and Solano, C. *El nucleótido cíclico, c-di-GMP, coordina la movilidad y la síntesis de celulosa en Salmonella enterica ser. Enteritidis*. XXIII Congreso Nacional de Microbiología. Salamanca (Spain). 11-14 de Julio. 2011.

- García, B., Solano, C., Latasa, C., **Zorraquino, V.**, Echeverz, M., García, E., Gil, C., Valle, J., Toledo-Arana, A. and Lasa, I. *Análisis proteómico de la ruta de señalización del mensajero secundario c-di-GMP*. Salamanca (Spain). 11-14 de Julio. 2011.

REFERENCES

Prof. Iñigo Lasa Uzkudun
Instituto de Agrobiotecnología
ilasa@unavarra.es

Prof. John van der Oost
Wageningen Universiteit
john.vanderoost@wur.nl

Dr. Fabian Blombach
University College London
fabian.blombach@gmail.com