

## AITZIBER LOPEZ CORTAJARENA

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### **Education**

M.Sc. in Biochemistry      University of the Basque Country, Spain      1992-1997

Ph.D. in Biochemistry      University of the Basque Country, Spain      1997-2002

### **Fellowships**

Collaboration fellowship, University of the Basque Country.      1996-1997

Predocctoral fellowship awarded by the Basque Government.      1997-2001

Postdoctoral fellowship awarded by the Spanish Government.      2002-present

### **Research experience**

*Undergraduate Research collaboration.* Advisors: Dr. Helena Ostolaza and Prof. Félix M. Goñi, University of the Basque Country (1995-1997). Mechanism of action of *Escherichia coli*  $\alpha$ -haemolysin.

*Thesis Research.* Advisors: Dr. Helena Ostolaza and Prof. Félix M. Goñi, University of the Basque Country (1997-2002). *Escherichia coli*  $\alpha$ -haemolysin: interaction with erythrocytes and lytic activity in membranes.

*Post-doctoral Research Fellow.* Advisor: Prof. Lynne J. Regan, University of Yale (2002-present).

### **Teaching experience**

Assistant in laboratory courses on “Methods in Biochemistry and Molecular Biology I and II” (1997-2002), at the Department of Biochemistry, University of the Basque Country.

## Publications

**Aitziber L. Cortajarena, Félix M. Goñi and Helena Ostolaza.** 2001. Glycophorin as a receptor for the *E. coli*  $\alpha$ -haemolysin in erythrocytes. *The Journal of Biological Chemistry* . 276(16): 12513-12519.

**Aitziber L. Cortajarena, Félix M. Goñi and Helena Ostolaza.** 2002. His-859 is an essential residue for the activity and pH dependence of *Escherichia coli* RTX toxin  $\alpha$ -hemolysin. *The Journal of Biological Chemistry* 277(26):23223-23229.

## Communications

VIII Congreso Hispano-Luso de Biofísica, July 11-14, 2002. Tenerife, Spain.

**Aitziber L. Cortajarena, Félix M. Goñi, Helena Ostolaza.** A receptor-binding region in *Escherichia coli*  $\alpha$ -haemolysin.

Tenth European Workshop Conference on Bacterial Protein Toxin, June 24-29, 2001. Bohon, Belgium.

**Aitziber L. Cortajarena, Félix M. Goñi, Helena Ostolaza.** Glycophorin as a receptor for *E. coli*  $\alpha$ -haemolysin in erythrocytes.

IV Congreso Iberoamericano de Biofísica, October 11-14, 2000. Alicante, Spain.

**Aitziber L. Cortajarena, Félix M. Goñi, Helena Ostolaza.** Site directed mutants at the end of the Gly-Asp region reveal the importance of H859 on the hemolytic activity of the *E.coli*  $\alpha$ -haemolysin.

Pore-forming toxins meeting, September 14-17, 2000. Trento, Italy.

**Aitziber L. Cortajarena, Félix M. Goñi, Helena Ostolaza.** Glycophorin as a receptor for *E. coli*  $\alpha$ -haemolysin in erythrocytes.

## Other Courses and Meetings

Workshop on Bioinformatics and Computational Biology, 2002 April 25-26. Madrid, Spain. Fundación BBVA.

Curso teórico-práctico. Bioenergética: Proteínas de Membrana, 2000 July 10-13. Sevilla, Spain. Sociedad Española de Bioquímica y Biología Molecular (SEBBM). Grupo de Biomembranas.

Curso teórico-práctico. Caracterización Estructural de Proteínas y Proteómica, 2000 June 26-July 1. Madrid, Spain. Sociedad Española de Bioquímica y Biología Molecular (SEBBM). Grupo de Estructura y Función de Proteínas.

Course : Estructura función de proteínas, 1999 June 21-24. Jaca, Spain. Sociedad Española de Bioquímica y Biología Molecular (SEBBM). Grupo de Estructura y Función de Proteínas.

Short Course on the Application of Optical Spectroscopic Techniques to Biochemical and Macromolecular Systems, 1998 October 1-3. Santarém, Portugal. Sociedad Portuguesa de Biofísica.

Workshop on Membrane Protein Insertion, Folding and Dynamics, 1998 March 30-April 1. Madrid, Spain. Instituto Juan March de Estudios e Investigaciones.