

**PUBLICACIONES DERIVADAS DE LAS TESIS DEFENDIDAS
EN EL PROGRAMA DE DOCTORADO EN HIDROLOGÍA Y GESTIÓN DE RECURSOS
HÍDRICOS EN EL AÑO 2016**

Doctorando	Sara Tejedor Sanz
Tesis	Merging Microbial Electrochemical Systems with Conventional Reactor Designs for Treating Wastewater
Director/es	Abraham Esteve Núñez
Fecha lectura	01/12/2016
Calificación	Sobresaliente <i>cum laude</i>
<p>Tejedor-Sanz S, de Gregoris TB, Salas JJ, Pastor L, Esteve-Núñez A: Integrating a microbial electrochemical system into a classical wastewater treatment configuration for removing nitrogen from low COD effluents. <i>Environmental Science: Water Research & Technology</i> 2016, 2:884–89</p> <p>Tejedor-Sanz S, Quejigo JR, Berná A, Esteve-Núñez A: The Planktonic Relationship Between Fluid-Like Electrodes and Bacteria: Wiring in Motion. <i>ChemSusChem</i> 2017, 10:693–700.</p> <p>Tejedor-Sanz S, Ortiz JM, Esteve-Núñez A: Merging microbial electrochemical systems with electrocoagulation pretreatment for achieving a complete treatment of brewery wastewater. <i>Chem Eng J</i> 2017, 330:1068–1074</p> <p>Tejedor-Sanz S, Fernández-Labrador P, Hart S, Torres CI, Esteve-Núñez A: Geobacter Dominates the Inner Layers of a Stratified Biofilm on a Fluidized Anode During Brewery Wastewater Treatment. <i>Front Microbiol</i> 2018, 9:378</p>	

Doctorando	Lidia Zulema Borjas Hernández
Tesis	Physiological and Operation Strategies for Optimizing Geobacter-based Electrochemical Systems
Director/es	Abraham Esteve Núñez
Fecha lectura	10/06/2016
<p>BORJAS, Z.; ESTEVE-NÚÑEZ, A.; ORTIZ, J.M. Strategies for merging Microbial Fuel Cell Technologies in Water Desalination processes: start-up protocol and desalination efficiency assessment. <i>Journal of Power Sources</i>. 356: 519-528. doi: 10.1016/j.jpowsour.2017.02.052 (2017).</p> <p>ESTÉVEZ-CANALES, M.; BERNÁ, A.; BORJAS, Z.; ESTEVE-NÚÑEZ, A. Screen-Printed electrodes: New tools for developing microbial electrochemistry at microscale level. <i>Energies</i>. 8 (11): 13211-13221. doi: 10.3390/en81112366 (2015).</p>	

ESTÉVEZ-CANALES, M.; KUZUME, A.; **BORJAS, Z.**; FÜEG, M.; LOVLEY, T.; WANDLOWSKI, T.; ESTEVE-NÚÑEZ, A. A severe reduction in the Cytochrome C content of *Geobacter sulfurreducens* eliminates its capacity for extracellular electron transfer. *Environmental Microbiology*. 7 (2): 219-226. doi: 10.1111/1758-2229.12230 (2015).

BORJAS, Z.; ORTIZ, J.M.; ALDAZ, A.; FELIU, J.M.; ESTEVE-NÚÑEZ, A. Strategies for reducing the start-up operation of Microbial Electrochemical Treatments of urban wastewater. *Energies*. 8 (12): 14064-14077. doi: 10.3390/en81212416 (2015).

KUZUME, A.; ZUMAEV, U.; LI, J.; FU, Y.; FÜEG, M.; ESTÉVEZ-CANALES, M.; **BORJAS, Z.**; WANDLOWSKI, T.; ESTEVE-NÚÑEZ, A. An in-situ surface electrochemistry approach toward whole-cell studies: Charge transfer between *Geobacter sulfurreducens* and electrified metal/electrolyte interfaces through linker molecules. *Electrochimica Acta*. 112 (1): 933-942. doi: 10.1016/j.electacta.2013.02.073 (2013).

Doctorando	Marta Rosa Estevez Canales
Tesis	Novel Bioelectrochemical Approaches for Exploring Extracellular Electron Transfer in <i>Geobacter Sulfurreducens</i>
Director/es	Abraham Esteve Núñez / Eloy García Calvo
Fecha lectura	27/05/2016
Calificación	Sobresaliente <i>cum laude</i>

Estevez-Canales, M., Pinto, D., Coradin, T., Laberty-Robert, C., Esteve-Núñez, A., 2017. Silica immobilization of *Geobacter sulfurreducens* for constructing ready-to-use artificial bioelectrodes. *MicrobBiotechnol* 11, 39–49

Estevez-Canales, M., Berná, A., Borjas, Z., Esteve-Núñez, A., 2015a. Screen-Printed Electrodes: New Tools for Developing Microbial Electrochemistry at Microscale Level. *Energies* 8, 13211–13221

Estevez-Canales, M., Kuzume, A., Borjas, Z., Füg, M., Lovley, D., Wandlowski, T., Esteve-Núñez, A., 2015b. A severe reduction in the cytochrome C content of *Geobacter sulfurreducens* eliminates its capacity for extracellular electron transfer. *Environ Microbiol Rep* 7, 219–226