# *CURRICULUM VITAE*

## PERSONAL DATA

**Rebeca Vidal Vidal**
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## EDUCATION

| | |
|---|---|
| 1999 | **Bachelor in Biology** (5 years-degree)<br>University of Seville, Spain |
| 2010 | **PhD in Biochemistry and Molecular Biology**<br>University of Seville, Spain<br>Title: "Photosynthetic production of ethanol in the cyanobacterium *Synechocystis* sp. PCC 6803" |

## RESEARCH EXPERIENCE

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| 2010-2014 | Postdoctoral Researcher at IBVF (Seville, Spain)<br>Company/Institution: Algaenergy, S.A./Research Foundation University of Seville<br>Projects: **Selection and genetic improvement of microalgae and cyanobacteria for the production of biodiesel / Research on Advances Technologies for comprehensive assessment of algae (VIDA)** |
| 2010-2010 | Postdoctoral Researcher at IBVF (Seville, Spain)<br>Company/Institution: University of Seville<br>Project: **Study of cyanobacteria for the production of carbonated compounds (polysaccharydes and fatty acids) for biodiesel** |
| 2002-2010 | PhD Researcher at IBVF (Seville, Spain)<br>Company/Institution: University of Seville/ Spanish Research Council (CSIC)<br>Projects**: Photosynthetic conversion of $CO_2$ into bioethanol/ Photosynthetic ethanol production with cyanobacteria and microalgae** |
| 2000-2002 | PhD Researcher at EMASESA (Drinking Water Supply Public Service, Seville)<br>Company/Institution: European Union<br>Project: **Using automatic monitoring and dynamic modelling for the active management of lakes and reservoirs** |

## TEACHING EXPERIENCE

2008-2010 Adjunct at Department of Plant Biochemistry and Molecular Biology, **University of Seville** (Spain)

## PUBLICATIONS

2015 **Vidal, R**. *Identification of the correct form of the mis-annotated response regulator Rre1 from the cyanobacterium Synechocystis sp. PCC 6803*. **2015**. **FMES Microbiology Letters, 362 (7).** ISSN: 1574-6968

2014 Delpino, C. Estrada, V., Laiglecia, J., **Vidal, R**., Florencio, J. F., García Guerrero, M & Diaz, M.S. *Dynamic Flux Balance Analysis in Cyanobacteria for ethanol production with Simultaneous Optimization Approaches*. 24th European Symposium on Computer Aided Process Engineering. **Computer Aided Chemical Engineering (33): 1165-1170 (2014)**. ISSN: 1570-7946

2013 Laiglecia, J., Estrada, V., **Vidal, R**., Florencio, J. F., García Guerrero, M. & Diaz, M. S. *Dynamic flux balance analysis of a genetic engineered cyanobacterium for ethanol production. Parameter estimation*. **Chemical Engineering Transactions (32): 955-960 (2013).** ISSN: 1974-9791

2009 **Vidal, R.**, López-Maury, L, Guerrero, M.G., Florencio, F.J.. *Characterization of an alcohol dehydrogenase from de cyanobacterium Synechocystis sp. PCC 6803 that responds to environmental stress conditions via the Hik34-Rre1 two-component system*. **Journal of Bacteriology 191 (13): 4383-4391 (2009)**. ISSN: 0021-9193

## COMMUNICATIONS TO CONGRESS

- R. Vidal, M.G. Guerrero, F.J. Florencio: Stable ethanol production by a genetically engineered strain of the cyanobacterium *Synechocystis* sp. PCC 6803 under continuous regime. International Congress **Alg'n'Chem 2014 – Which future for algae in industry?**. Pag. 78-78. Montpellier, France (2014)
- V. Estrada**,** R. Vidal, F. J. Florencio**,** M. G. Guerrero, M.S. Diaz: Parameter Estimation of Bioethanol Production Model by a Genetic Engineered Cyanobacterium. **2012 AIChE Annual Meeting**. Pittsburg, USA (2012)
- R. Vidal, M. G. Guerrero, F. J. Florencio: Light-Driven Ethanol Production From $CO_2$ by Genetically Engineered Strains of The Cyanobacterium *Synechocystis* sp. PCC 6803. **Esf-Bielefeld-Cebitec Conference on Microbes and Industrial Biotechnology**. Booklet of Abstracts, Pag. 40-40. Bielefed, Germany (2010)
- R. Vidal, L. López-Maury, M. G. Guerrero, F. J. Florencio: Identificación del Sistema de Dos Componentes Hik2-Rre1 en *Synechocystis* sp. PCC 6803. **XXI Congreso Nacional de Microbiologia,** Pag. 001-001. Sevilla, Spain (2007)

- M. G. Guerrero, M. G. González, J. M. Fernandez, J. A. del Campo, R. Vidal: Coupling of $CO_2$ Capture and Biofuel Generation in Cyanobacterial Systems. The **10th International Conference on Applied Phycology**. Num. 10, Pag. 36-36. Kunming, China (2005)
- R. Vidal, L. López-Maury, M. G. Guerrero, F. J. Florencio: Purification and Characterization of an Alcohol Dehydrogenase Induced by Osmotic Stress in *Synechocystis* sp. PCC 6803. **IV Euroconference on the Molecular Bioenergetics of Cyanobacteria**. Num. 4, Pag. 79-79. San Feliu de Guixols, Spain (2005)
- R. Vidal, L. López-Maury, M. G. Guerrero, F. J. Florencio: Análisis y Caracterización del Gen *slr1192* que Codifica para una Alcohol Deshidrogenasa en la Cianobacteria *Synechocystis* sp. PCC 6803. **XXVII Congreso de la Sociedad Española de Bioquímica y Biología Molecular**. Num. 27, Pag. 82-82. Lleida, Spain (2004)
- Escot Muñoz, Carmelo, Vidal Vidal, Rebeca, Martin Montaño, Agustin, Basanta, Alves, Ana, Aguado, Francisco: Some Observations on the Effect of Management of Water Supply Reservoirs in Seville (Southern Spain) on Water Quality. **4th International Conference on Reservoir Limnology and Water Quality**. Ceské Budejovice, Czech Republic (2002)

## SPECIALIZED COURSES

- **"International Late Autumn School on Advances Techniques in Bacterial Genome Research".** November 24-27th, 2010 at Center for Biotechnology of Bielefeld University. Experimental course in metabolomics techniques.
- **"I Course of Proteomics".** March-April, 2004 at University of Córdoba. Experimental course in proteomic techniques.
- "**Biotechnology of Microalgae**". Postgraduate Course at University of Seville. June, 2003. Experimental course in biotechnological techniques of microalgae.
- "**Analysis of toxic microalgae in water supplies**". Postgraduate course at University of Seville. May, 2000. Practical course on immunological techniques applied to the detection of toxic microalgae in water reservoirs.