Personal & scientific details

Name and family name	Jaume Puigagut Juarez		
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Professional details

Body	Universitat Politècnica de Catalunya - Barcelonatech			
Department	Civil and Environmental Engineering			
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Position	Associate professor		Since	1/09/2017
Research keywords	Environmental engineering, Environmental technology, Biological treatment, constructed wetlands, microbial fuel cells			

Education

Degree	University	Year
Graduate in Biology	Universitat de Barcelona	2001
Master degree	Universitat de Barcelona	2002
PhD in Biology	Universitat de Barcelona	2007

JCR Publications

1. Enzimatic activity assessment in constructed wetlands using the signal of microbial fuel cells. Fernandez-gatell, M., Corbella, C. and Puigagut, J. Science of the total environment.

2. Oxygen up-take rate of constructed wetlands biomass assessed using the signal of microbial fuel cells. Fernandez-Gatell, M. and Puigagut, J.

3. Full-scale horizontal sub-surface treatment wetlands activity monitored using the signal of microbial fuel cells. Fernandez-Gatell, M., Barbero, M. and Puigagut, J.

4. Hydraulic flow assessment in constructed wetlands using the signal of microbial fuel cells. Barbero, M. and Puigagut, J.

5. Biocapacitance of electroactive biofilms used as a tool for domestic COD assessment tool. Barbero, M. and Puigagut, J.

6. Hartl, M., Bedoya-Ríos, D.F., Fernández-Gatell, M., Rousseau, D.P.L., Du Laing, G. Garfí, M. Puigagut, J. 2019. Contaminants removal and bacterial activity enhancement along the flow path of constructed wetland microbial fuel cells. Science of the Total Environment, 652, 1195-1208.

7. Membrane-less MFC-based biosensor for domestic wastewater COD assessment in constructed wetland. 2019. Corbella, C., Hartl, M., Fernandez-Gatell, M. And Puigagut, J. Science of the total Environment, 660, 218-226.

8. García-Galán, M.J., Uggetti, E., Garfi, M., Olguín, E.J., García, J., Puigagut, J. 2018. Biotechnology: a highly efficient tool for the current environmental challenges. Science of the Total Environment. 616-617, 1664-1667

9. Corbella, C. and Puigagut, J. 2018. Improving domestic wastewater treatment efficiency with constructed wetland microbial fuel cells: Influence of anode material and external resistance". Science of the Total Environment 631, 1406-1414.

10. Corbella, C., Stidl, R.P, Puigagut, J. and Reguera, G. 2017. Electrochemical characterization of Geobacter lovleyi identifies limitation of microbial fuel cell performance in constructed wetlands. International microbiology, 20(2), 55-64.

11. Corbella, C., Puigagut, J. and Garfí, M. 2016. Life cycle assessment of constructed wetland systems for wastewater treatment coupled with microbial fuel cells. Science of the total environment, 584, 355-362.

12. Garfí, M. and Puigagut, J. 2016. Reusing industrial by-products to enhance phosphorus removal in waste stabilization ponds: laboratory approach. Desalination and Water Treatment, 57(4), 1857-1864.

13. Uggetti, E. and Puigagut. J. 2016. Photosynthetic membrane-less microbial fuel cells enhance microalgal biomass concentration. Bioresource Technology, 210, 1016-1020.

14. Corbella, C., García, J. and Puigagut, J. 2016. Microbial fuel cells for clogging assessment in constructed wetlands. Science of the Total Environment, 569-570, 1060-1063

15. Corbella, C., Garfí, M. and Puigagut, J. 2016. Long-term assessment of best cathode position to maximise microbial fuel cell performance in constructed wetlands. Science of The Total Environment, 563-564, 448-455.

16. Uggetti, E., Hughes-Riley, T., Morris, R.H., Newton, M.I., Trabi, C.L., Hawes, P., Puigagut, J. and García, J. 2016. Intermittent aeration to improve wastewater treatment efficiency in pilot-scale constructed wetland. Science of the Total Environment, 559, 212–217.

17. Labella, A., Caniani, D. Robert H. Morris, T. I. Newton, M. Hawes, P., Puigagut, J., García, J. and Uggetti, E. 2015. Assessing the economic suitability of aeration and the influence of bed heating on constructed wetlands treatment efficiency and life-span. Ecological Engineering, 83, 184-190.

18. Corbella, C., Guivernau, M., Viñas, M., Puigagut, J.2015. Operational, design and microbial aspects related to power production with microbial fuel cells implemented in constructed wetlands. Water Research, 84, 232-242.

19. Corbella, C. and Puigagut, J. 2015. Effect of primary treatment and organic loading on methane emissions from horizontal subsurface flow constructed wetlands treating urban wastewater. Ecological Engineering, 80, 79-84.

20. Hughes-Riley, T., Newton, M.I., Webber, J.B.W., Puigagut, J., Uggetti, E., Garcia, J., Morris, R.H. 2014. Advances in clog state monitoring for use in automated reed bed installations. Lakes reservoirs and ponds, 8 (1), 52-65.

21. Puigagut, J., Chazarenc, F. and Comeau, Y. (2014). Influence of tubificid worms on nutrients fluxes across water-sediment interface of fish farm settling ponds. Knowledge and Management of Aquatic Ecosystems, 413, 12.

22. Corbella, C., Garfí, M., and Puigagut, J., 2014. Vertical redox profiles in treatment wetlands as function of hydraulic regime and macrophytes presence: surveying the optimal scenario for microbial fuel cell implementation. Science of The Total Environment, 470-471, 754-758

23. Garfí, M., Pedescoll, A., Alvarez, E., Puigagut, J., and García, J. 2014. Reliability and economical feasibility of on-line monitoring of constructed wetlands performance. Desalination and Water Treatment, 52 (31-33), 5848-5855.

24. Corbella, C., and Puigagut, J., 2013. Improving the reliability of closed chamber methodologies for methane emissions measurement in treatment wetlands. Water, Science and Technology, 69(9), 2097-2102

25. A. Pedescoll & P. R. Knowles & P. Davies & J. García & J. Puigagut. 2012. A Comparison of In Situ Constant and Falling Head Permeameter Tests to Assess the Distribution of CloggingWithin Horizontal Subsurface Flow Constructed Wetlands. Water, Air and Soil Pollution, 23, 2263-2275.

26. Puigagut, J., Maltais-Laundry, G., Gagnon, V. and Brisson, J. 2012. Are ciliated protozoa affected by macrophyte species, date of sampling and location in horizontal sub-surface flow constructed wetlands? Wat. Res. 46(9), 3005-3013.

27. Puigagut, J., Angles, H., Chazarenc, F. and Comeau, Y. 2011. Decreasing phosphorus discharge in fish farm ponds by treating the sludge generated with sludge drying beds. Aquaculture, 318 (1-2), 7-14.

28. Pedescoll, A., Corzo, A., Alvarez, E., García, J., Puigagut, J. 2011.The effect of primary treatment and flow regime on clogging development in horizontal subsurface flow constructed wetlands: an experimental evaluation. Water Research, 45 (12), 3579–3589.

29. Pedescoll, A., Corzo, A., Alvarez, E., Puigagut, J. and García, J. 2011. Contaminant removal efficiency depending on primary treatment and operational strategy in horizontal subsurface flow treatment wetlands. Ecological engineering 37 (2), 372-380.

30. Pedescoll, A., Passos, F., Alba, E., García, J. and Puigagut, J. 2011. Mechanical resistance properties of gravel used in subsurface flow constructed wetlands: implications for clogging. Water Science and Technology, 63(9), 1801–1807.

31. Pedescoll, A., Samsó, R., Romero, E., Puigagut, J. and García, J. 2011. Reliability, repeatability and accuracy of the falling head method for hydraulic conductivity measurements under laboratory conditions. Ecological Engineering, 37(5), 754–757

32. Lefrançois, P., Puigagut, J., Chazarenc, F. and Comeau, Y. 2010. Minimizing phosphorus discharge from aquaculture earth ponds by a novel sediment retention system. Aquaculture Engineering, 43(3), 94-100.

33. Gagnon, V., Maltais-Landry, G., Puigagut, J., Chazarenc, F. and Brisson, J. 2010.Treatment of hydroponics wastewater using constructed wetlands in winter conditions Water, Air and Soil Pollution 212(1-4), 483-490.

34. Puigagut, J. García, J. and Salvadó, H. 2009. Microfauna community as indicator of effluent quality and operational parameters in an activated sludge system for treating piggery wastewater. Water, Air and Soil Pollution 203 (1-4), 207-216.

35. Llorens, E., Puigagut, J. and García, J. 2009. Distribution and biodegradability of sludge accumulated in full-scale horizontal sub-surface flow constructed wetlands. Desalination and water treatment – science and engineering. 4(1-3), 54-58.

36. Tapia González, F., Gíacoman Vallejos, G., Herrera Silveira, J., Quintal Franco, C., García, J. and Puigagut, J. 2009. Treatment of swine wastewater with pilot constructed wetlands in Yucatán, Mexico: influence of plant species and contact time. Water SA. 35(3), 335-342.

37. Matamoros, V., Puigagut, J., García, J. and Bayona, J.M. 2007. Behaviour of selected priority organic pollutants in horizontal subsurface flow constructed wetlands. A pilot-scale study. Chemosphere 69, 1374-1380.

38. Puigagut, J., Salvadó, H. and García, J. (2007). Effects of particulate and soluble substrates on microfauna populations and treatment efficiency in activated sludge systems. Water research 41(14), 3168-3176

39. Puigagut, J., Villaseñor, J., Salas, J.J., Becare, E. and García, J. 2007. Subsurface flow constructed wetlands in Spain for the sanitation of small communities: a comparative study. Ecological engineering 30, 312-319.

40. Caselles-Osorio, A., Puigagut, J., Segú, E. and García, J. 2007. Solids accumulation in five full-scale subsurface flow constructed wetlands. Water Research 41(6), 1388-1398.

41. Puigagut, J., Salvadó, H. García, D., Granés, F. and García, J. 2007. Comparison of microfauna communities in full scale subsurface-flow constructed wetlands used as secondary and tertiary treatment. Water Research 41(8), 1645-1652.

42. Puigagut, J., Salvadó, H. and García, J. 2007. Effect of soluble and particulate compounds on microfauna community in subsurface-flow constructed wetlands". Ecological engineering 29(3), 280-286.

43. Puigagut, J., Salvadó, H. and García, J. 2005. Short-Term Harmful Effects of Ammonia Nitrogen on Activated Sludge Microfauna. Water Research 39(18); 4397–4404.

44. Palomo, A., Salvadó, H., Mas, M., Puigagut, J. Y Gracia, M.P. 2004. Dynamics of nematodes in a high organic loading rotating biological contactors. Water Research 38(10); 2571-2578.

45. Puigagut, J., Salvadó, H., Mas, M. And Gracia, M.P. 2004. Ammonia effect on wastewater treatment plant microfauna. Journal of eukariotic microbiology. 51(2):27a

46. Mas, M. Salvadó, H., Puigagut, J. And Gracia. M.P. 2004. Protozoa growth kinetics in an activated sludge systems. Journal of eukariotic microbiology. 51(2):27a-28a

Non- JCR Publications (peer review)

1. E. Uggetti, J. Puigagut, J. García, T. Hughes-Riley, M.I. Newton, R.H. Morris, J.B. Webber. Sensores de resonancia magnética para mejorar la operación de humedales construidos para el tratamiento de agua residual. 2014. Automática e Instrumentación, 459.
2. Puigagut, J., Salvadó, H., Tarrats, X., García, J. (2010) Efecto de los rotíferos lecánidos sobre el tamaño de los fangos de un sistema de fangos activos. Tecnología del agua, 294, 64-68.
3. Uggetti, E., Puigagut, J., García J., Hughes-Riley T., Newton M.I., Morris R.H., Webber, J.B. (2014). Sensores de resonancia magnética para mejorar la operación de humedales construidos. Automática e Instrumentación, 454, 2-4.

Conference proceedings

1. M. Hartl, T. Hennebel, M. Garfí, J. Puigagut, D.P.L. Rousseau and G. Du Laing. 2019. (Bio-)electrochemical technologies for resource recovery and plant management in wastewater treatment wetland systems. In: 3rd IWA Resource Recovery Conference. Venice (Italy). Poster.
2. Fernandez-Gatell, M., Hartl, M. And Puigagut, J.2019. Bacterial activity and biomass assessment in constructed wetlands based on the electric signal of microbial fuell cells. In: 8th International Symposium on Wetland Pollutant Dynamics and Control. Aarhus, Denmark. (Accepted for an oral presentation)
3. Marco Hartl, María Jesús García, Victor Matamoros, Marta Fernández-Gatel, Diederik P.L. Rousseau, Gijs Du Laing, Marianna Garfí and Jaume Puigagut. 2019. *Removal of selected emergent contaminants in Constructed wetlands operated as bioelectrochemical systems fed with urban wastewater.* 8th International Symposium on Wetland Pollutant Dynamics and Control. Aarhus, Denmark. (Accepted for an oral presentation)
4. Bedoya-Rios, D., Fernandez-Gatell, M., Hartl, M., Rousseau; D., Du Laing, G., Garfí, M. And Puigagut, J. (2018). Bioelectrochemical systems implemented in constructed wetlands enhance heterotrophic bacterial activity. In: The 16th International Conference of the International Association Specialist Group on Wetland Systems for Water Pollution Control. Valencia, Spain. Pp 20-21.
5. Hartl, M., Fernandez-Gatell, M., Hartl, M., Rousseau; D., Du Laing, G., Garfí, M. And Puigagut, J. Constructed wetlands operated as biolectrochemical systems for the treatment of urban wastewater. In: The 16th International Conference of the International Association Specialist Group on Wetland Systems for Water Pollution Control. Valencia, Spain.
6. Hartl, M., Muccioli, F., Genovese, I., Fernandez-Gatel, M., Garfí, M., Puigagut, J. 2017. Real-time water quality assessment with constructed wetland microbial fuel cells. In: The 7th International Symposium for wetland Pollutant Dynamics an Control (WETPOL). Big Sky, Montana, EEUU. Pp 141-142

7. Hartl, M., Muccioli, F., Genovese, I., Fernandez-Gatel, M., Garfí, M., Puigagut, J. 2017. Preliminary results on organic matter and ammonia removal enhancement with constructed wetland microbial fuel cells. obial fuel cells. In: The 7th International Symposium for wetland Pollutant Dynamics an Control (WETPOL). Big Sky, Montana, EEUU. Pp 232-233.
8. Corbella, C. and Puigagut, J. 2016. Constructed Wetland-Microbial Fuel Cell enhances domestic wastewater treatment efficiency. The 3rd European Meeting of the International Society for Microbial Electrochemistry and Technology (EU-ISMET 2016), Rome (Italy), 10.
9. Corbella, C., Gómez, N. and Puigagut, J. 2015. Novel microbial fuel cell-based biosensor for the assessment of organic loading in constructed wetlands. *Wetland Pollutant Dynamics and Control (WETPOL) York (UK), 246-247.*
10. Corbella, C. and Puigagut, J. 2015. Microbial fuel cells to improve treatment efficiency in constructed wetlands. *Wetland Pollutant Dynamics and Control (WETPOL) York (UK), 242-243.*
11. Corbella, C., Guivernau, M., Viñas, M. and Puigagut, J. 2014. Effect of primary treatment on electrogenic bacteriapopulations colonizing the electrodes of microbial fuel cells implemented in constructed wetlands*. In IWA 14th International Conference on Wetland Systems for Water pollution Control.* Shanghai (China) (page not defined).
12. Corbella, C. and Puigagut, J., 2014. Influence of water level variation within constructed wetlands on power production with microbial fuel cells. *IWA 14th International Conference on Wetland Systems for Water pollution Control.* Shanghai (China). (page not defined).
13. Corbella, C. and Puigagut, J. 2013. Preliminary results on methane emission from horizontal subsurface flow treatment wetlands as function of primary treatment. *. In Proceedings of the 5th International Symposium on Wetland Pollutant Dynamics and Control (WETPOL) Nantes (France),* 317-318.
14. Corbella, C. and Puigagut, J. 2013. Energy production with microbial fuel cells implemented in horizontal subsurface flow treatment wetlands. In Proceedings of the 5th International Symposium on Wetland Pollutant Dynamics and Control (WETPOL) Nantes (France),129-130.
15. Garfi, M., Corbella, C. and Puigagut, J. (2012). The influence of operational and design parameters on vertical redox profiles in sub-surface flow constructed wetlands: surveying the optimal scenario for microbial fuel cell implementation. In: Proceedings of the 13th IWA International Conference on Wetlands Systems for Water Pollution Control, Perth, Australia, (not page defined)
16. Corbella, C. and Puigagut, J. (2012). Improving the reliatibility of closed chamber methodologies for methane emissions measurement in constructed wetlands. In: Proceedings of the 13th IWA International Conference on Wetlands Systems for Water Pollution Control, Perth, Australia, (not page defined)
17. Pedescoll, A., Passos, F., Alba, E., García, J., Puigagut, J. (2010). Gravel composition related to clogging development in horizontal subsurface flow constructed wetlands. In: Proceedings of the 12th IWA International Conference on Wetlands Systems for Water Pollution Control, Venice, Italy, 790-797.
18. Pedescoll, A., Corzo, A., Alvarez, E., Puigagut, J., García, J. (2010). Contaminant removal and clogging development in shallow subsurface flow wetlands: effect of primary treatment and operating strategy. In: Proceedings of the 12th IWA International Conference on Wetlands Systems for Water Pollution Control, Venice, Italy, 798-800.
19. Puigagut, J., Gagnon, V., Brisson, J. (2009). Effect of the presence of macrophytes on ciliated protozoa in horizontal subsurface-flow constructed wetlands. In: Proceedings of the 3rd Wetland Pollutant Dynamics and Control (WETPOL), Barcelona, Spain 115-116.

20. Anjab, Z., Chazarenc, F., Puigagut, J., Comeau, Y. (2009). Slag for upgrading phosphorus removal from constructed wetland effluents: effect of slag particle size distribution. . In: Proceedings of the 3rd Wetland Pollutant Dynamics and Control (WETPOL), Barcelona, Spain 145-146.
21. Gagnon, V., Puigagut, J., Chazarenc, F., Brisson, J. (2009). Influence of plants species on the performance of constructed wetlands for sludge dewatering during the first year of operation. In: Proceedings of the 3rd Wetland Pollutant Dynamics and Control (WETPOL), Barcelona, Spain 173-174.
22. Puigagut, J., De Boutray, M.L., Chazarenc, F., Comeau, Y. (2009). Influence of tubificid worms on phosphorus dynamics between sediment and overlaying water in a settling pond. . In: Proceedings of the 3rd Wetland Pollutant Dynamics and Control (WETPOL), Barcelona, Spain 434-435.
23. Gagnon, V., Puigagut, J., Chazarenc, F., Brisson, J. (2008). Treatment of hidroponics wastewater using constructed wetlands: the role of plants, season and organic carbon addition. In: Proceedings of the 11th International Conference on Wetland Systems for Water Pollution Control, Indore, India, 123-130.
24. Garcia, J., Baqué, F., Puigagut, J., Llorens, E. (2008). Biodegradability properties of solids accumulated in a full-scale subsurface flow constructed wetland. In: Proceedings of the 11th International Conference on Wetland Systems for Water Pollution Control, Indore, India, 415-418.
25. Puigagut, J., Villaseñor, J., Salas, J.J., Bécares, E., and García, J. (2006). Subsurface flow constructed wetlands in Spain for the sanitation of small communities: a comparative study. In: Proceeedings of the 9th IWA International Conference on Wetland Systems for Water Pollution Control, Lisboa, Portugal, 1223-1234.
26. Matamoros, V., Puigagut, J., García, J., Codony, F., Morató, J. and Bayona, J.M. (2006). Behavior of framework eu directive priority pollutants in subsurface flow constructed wetlands. In: Proceeedings of the 10th IWA International Conference on Wetland Systems for Water Pollution Control, Lisboa, Portugal, 559-566.
27. Puigagut, J., Villaseñor, J., Salas, J.J., Bécares, E., García, J. (2006). Susurface flow constructed wetlands in Spain for the sanitation of small communities: a comparative study. In: Proceeedings of the 10th IWA International Conference on Wetland Systems for Water Pollution Control, Lisboa, Portugal, 1223-1233
28. Puigagut, J., Salvadó, H y García, J. (2006). Efecto de los compuestos orgánicos solubles y particulados en la comunidad de microorganismos asociada a un humedal construido de flujo subsuperficial. En: Ponencias de la Mesa Española de Tratamiento de Aguas 2006. Universidad de Valencia, Valencia, España, 87-92.
29. Puigagut, J and García, J. (2005). The study of microfauna community in subsurface flow constructed wetland according to the sort of organic matter supplied (soluble/particulate). In: Proceedings of the International Symposium on Wetland Pollutant Dyanamics and Control, Ghent University, Ghent, Belgium.
30. Puigagut, J., Salvadó, H. y García, J, (2005). Changes on microfauna community in experimental subsurface flow constructed wetlands according to the type of organic matter supplied. En: Encuentro Internacional sobre Fitodepuración, Fundación Global Nature, Lorca, España.

Books and book chapters

1. Dotro, G., Langergraber, G., Molle, P., Nivala, J., Puigagut, J., Stein, O., & Von Sperling, M. (2017). Treatment wetlands (p. 172). IWA publishing.
2. Puigagut, J., Caselles-Osorio, A., Vaello, N. and García, J. (2008). Fractionation, biodegradability and particle-size distribution of organic matter in horizontal subsurface-flow constructed wetlands. In: Nutrient Cycling and Retention in Natural

and Constructed Wetlands, Vymazal, J. Ed., Springer, 289-297. ISBN 978-1-4020-8234-4.

3. Salvadó, H., Puigagut, J. (2007). Scaling-up of predation enhancement groute. In: Comparative evaluation of sludge reduction routes, Ginested, P. Ed., IWA Publishing, 52-54. ISBN 1-84339-123-6.

National and International projects

- Name of the project: Using bioelectrochemical systems for the improvement of natural wastewater treatment systems (PEJ2018-005586-A)
- Role in the project: IP
- Body where project took place: Technical University of Catalonia - Department of Civil and Environmental Engineering
- Funding body or bodies: Ministerio de Ciencia, Innovación y Universidades. Ayudas para la promoción de empleo joven e implantación de la garantía juvenil en i+d+i convocatoria 2018
- Start/finish date: September 2019 – August 2021
- Total amount: 39,200 €

- Name of the project: Potential and Validation of Sustainable Natural & Advance Technologies for Water & Wastewater Treatment, Monitoring and Safe Water Reuse in India (PAVITR) (821410)
- Role in the project: Researcher
- Body where project took place: Technical University of Catalonia - Department of Civil and Environmental Engineering
- Funding body or bodies**:** H2020
- Start/finish date: February 2019 – January 2022
- Total amount: 224.812,50 € (UPC only).

- Name of the project**:** Innovative Eco-Technologies for Resource Recovery from Wastewater (INCOVER)
- Role in the project: Researcher
- Body where project took place: Technical University of Catalonia - Department of Civil and Environmental Engineering
- Funding body or bodies**:** H2020
- Start/finish date: Junio 2016 – Junio 2019
- Total amount**:** 807,500 €

- Name of the project**:** Sustainable Product, Energy and Resource Recovery from Wastewater (SuPER-W) (676070)
- Role in the project: Researcher
- Body where project took place: Technical University of Catalonia - Department of Civil and Environmental Engineering
- Funding body or bodies**:** H2020-MSCA-ITN-2015 (European Joint Doctorates)
- Start/finish date**:** Junio 2015 – Junio 2019
- Total amount**:** 495,745 €

- Name of the project: Producción de biogás a partir del tratamiento de aguas residuales empleando consorcios de microalgas y bacterias en fotobioreactores cerrados.
- Role in the project: Researcher
- Body where project took place: Technical University of Catalonia - Department of Civil and Environmental Engineering
- Funding body or bodies: Ministerio de Economía y Competitividad
- Start/finish date: Enero 2015 – Diciembre 2017.
- Total amount: 118.550

- Name of the project: Ecotechnologies for water treatment and recovery of resources
- Role in the project: Researcher
- Body where project took place: Technical University of Catalonia - Department of Civil and Environmental Engineering
- Funding body or bodies: Spanish Ministry of Science
- Code according to the funding body: EUIN2013-51166
- Start date: 01/01/2014 Duration of the project: 3 years
- Total amount: 24.000

- Name of the project: Autonomous Reed Bed Installations
- Role in the project: Researcher
- Body where project took place: Technical University of Catalonia - Department of Civil and Environmental Engineering
- Funding body or bodies: European Comission
- Code according to the funding body: FP7-606326-ARBI
- Start date: 01/09/2013 Duration of the project: 2 years
- Total amount: 503,429

- Name of the project: Safeguarding Water resources in INdia with Green and Sustainable
- Your role in the project: Researcher
- Body where project took place: Technical University of Catalonia - Department of Civil and Environmental Engineering
- Funding body or bodies: European Comission
- Code according to the funding body: FP7-308502-SWINGS
- Start date: 01/09/2012 Duration of the project: 3 years - 5 months – 28 days
- Total amount: 264,231

- Name of the project: FP7-308336-NaWaTech - Natural Water Systems and Treatment Technologies to cope with Water Shortages in Urbanised Areas in India
- Your role in the project: Researcher
- Body where project took place: Technical University of Catalonia - Department of Civil and Environmental Engineering
- Funding body or bodies: European Comission - FP7
- Start date: 01/07/2012

- Name of the project: Microbial fuel cells implemented in constructed wetlands for energy production and treatment improvement
- Role in the project: Principal Investigator
- Body where project took place: Technical University of Catalonia - Department of Civil and Environmental Engineering
- Funding body or bodies: Ministerio de Ciencia e Innovación (MICINN)
- Code according to the funding body: CTM2010-17750
- Start date: 01/01/2011 Duration of the project: 4 years
- Total amount: 90,750

- Name of the project: Water.cat - catalan r&d network for water technologies
- Your role in the project: Researcher

- Body where project took place: Technical University of Catalonia - Department of Civil and Environmental Engineering
- Funding body or bodies: ACC10, Generalitat de
- Catalunya
- Code according to the funding body: XCEU10-2-0001
- Start date: 27/12/2010 Duration of the project: 2 years - 5 days
- Total amount: 9,000

Awards

- 2015. Award "1st best PhD presentation." presentada en el 10th ISEB Conference. Word awarded: Microbial Fuel Cells implemented in Constructed Wetlands: fundamentals, current research and future perspectives.
- 2013. Best work presented at the 5th International Symposium on Wetland Pollutant Dynamics and Control. Title: Preliminary results on methane emissions from constructed wetlands as function of primary treatment.
- 2012. National award (Awarded by the Generalitat de Catalunya) for the best research project on environment. Title of the project: Power production with microbial fuel cells implemented in constructed wetlands for the treatment of domestic wastewater". Award: 30.000 euros.
- 2010. Superior paper award given by the International Aquacultural Society. Paper awarded: Minimizing phosphorus discharge from aquaculture earth ponds by a novel sediment retention system. Aquacultural Engineering, Vol. 43:94-100.
- 2007. 2nd best annual work on activated sludge microbiology given by the Scientific Society on Bioindication (GBS). Tittle: Effect of Lecanidae rotifers on the floc size distribution in activated sludge systems.

Scientific and organizing comitees

- 2018. 16th International Conference of the International Association Specialist Group on Wetland Systems for Water Pollution Control.
- 2016. 10th International Society for Environmental Biotechnology (ISEB) conference.
- 2014. IWA 14th International Conference on Wetland Systems for Water pollution Control
- 2013. 5th International Symposium on Wetland Pollutant Dynamics and Control.
- 2009. 3rd Wetland Pollutant Dynamics and Control Symposium.

PhD thesis supervision

- **2016 – present (on goin)**. Phytotechnologies for nutrient recovery and wastewater treatment in rural areas. Student: Marco Hartl
- **2011 – 2018.** Microbial fuel cells implemented in constructed wetlands: design aspects and applications. Student: Clara Corbella.
- **2006 – 2010**. Clogging in Horizontal Subsurface Flow Constructed Wetlands. Mesures, design factors and prevention strategies. Student: Anna Pedescoll. Mark: Exellent *Cum Laude*