


Name: Jose R. Vazquez-Padin		
Function:	Head of Quality Area	
Institution:	FCC Aqualia SA	<input type="checkbox"/> Funding Agency: CDTI (Spain)
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Division	Department of Innovation and Technology	
Areas of Expertise:		
Autotrophic nitrogen removal processes, anaerobic digestion, aerobic and anaerobic membrane bioreactors, micro-algae based systems, nutrients recovery and waste valorization		
Short Description of your Institution:		
<p>aqualia is the water management parent company of FCC, one of the largest European services groups. aqualia responds to the needs of all parties, private and public, at all stages of the water cycle, providing water for human, industrial, and agricultural uses. aqualia is the third-largest water management company in Europe (Global Water Intelligence), with 36% of the Spanish indirect water management market, aqualia is present in more than 1,100 municipalities and provides services to more than 23,500,000 people worldwide. In terms of R&D, the I + T Department is in charge of over 20 industrially oriented projects, leading towards the paradigm shift of the water sector focused on sustainability.</p> <p>Jose R. Vazquez-Padin: Outstanding Ph.D award by the University of Santiago de Compostela (2013), with more than 10 years of experience. Co-Inventor of the patent (EP2740713 A1) for autotrophic nitrogen removal, a technology registered as ELAN[®]. Author of 21 articles in international peer-reviewed journals, 8 articles in Spanish journals and 8 book chapters.</p>		
Role in the project:		
<p>Leader of WP 5 on Nutrient removal in the supernatant, being involved in the following tasks:</p> <ul style="list-style-type: none"> • Start up, operation and optimization of the combination “ELAN[®] - Struvite” in the sidestream of Guillarei WWTP designed to treat 70 m³/d of centrate. • Mainstream autotrophic nitrogen removal AQU-ELAN[®], technical assessment and pilot scale. • Cooperation on the modelling of the processes in which aqualia is involved. 		