L. Tiago Guerra

Research Postoctoral Fellow at: A4F, Algafuel, SA

Nationality: Portuguese

Main supervisor: Dr. Vitor Verdelho

Educational background:

- Undergrad in Microbiology and Genetics at School of Sciences University of Lisbon, Portugal, 2005
- Ms.C in Molecular and Cellular Biology from School of Sciences University of Lisbon, Portugal, 2008
- Ph.D in Chemistry from Princeton University, USA, 2013

  Thesis Title: Control of of Photosynthetic carbon allocation between proteins, lipids and carbohydrates in cyanobacteria and diatoms and its implications for biofuel production.

Selected Publications:

- Guerra, L.T.; Levitan, O.; Frada, M; Sun, J.; Falkowski, P.G.; Dismukes, G.C. "Regulatory branch points affecting protein and lipid biosynthesis in the diatom *Phaeodactylum tricornutum".* 2013, *Biomass & Bioenergy, in Press.*
- Kenchappa, K. G., Guerra L.T., Qian, X., Zhang, S., Bryant, D., Dismukes, G.C. "Reprogramming the Glycolytic Pathway for Increased Hydrogen Production in Cyanobacteria: Metabolic Engineering of NAD+-dependent GAPDH". 2013, *Energy Environ. Sci.*, *in Press*.
- Guerra, L. T., Xu, Y., Bennette, N., McNeely, K., Bryant, D. A., & Dismukes, G. C. "Natural osmolytes are much less effective substrates than glycogen for catabolic energy production in the marine cyanobacterium *Synechococcus* sp. strain PCC 7002". 2013 *Journal of biotechnology,* 166, 3, pgs 65–75
- Xu, Y., Guerra, L.T., Li, Z., Ludwig, M., Dismukes, G.C., Bryant, D. A. "Altered carbohydrate metabolism in glycogen synthase mutants of *Synechococcus* sp. strain PCC 7002: Cell factories for soluble sugars." 2013 *Metabolic engineering*. 16, Pgs 56–67

Personal interests / hobbies:

- Sports
- Scubba diving

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