

Selected Publications – Most Significant Work Annotate Impact and Authorship Contribution

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Refereed Journal Articles

Authorship: * Undergraduate students under my supervision; ** Graduate students under my supervision, *** Post-doc under my supervision; ^ Research assistant under my supervision

Contribution in multi-author research publications: ¹led investigation and writing, ²provided guidance for lead student, post-doctoral researcher, or research assistant, ³conducted a component of the experiment, ⁴data collection, organization, and/or analyses, ⁵consulted on project, input on design, data management and/or analyses, ⁶led writing, ⁷designed/helped design experiments.

Impact: Of most significant papers.

- 41) Hawkings, C**, **Tamborindeguy, C.**^{2,7} Expression analysis of vitellogenins in the workers of the red imported fire ant (*Solenopsis invicta*). *PeerJ*, e4875 doi:10.7717/peerj.4875.
- 40) Albuquerque Tomilhero Frias, A.**; Ibanez, F.**; Mendoza-Herrera, A.^, de Carvalho Nunes, W. M., **Tamborindeguy, C.**^{2,7} 2018. Effects of 'Candidatus Liberibacter solanacearum' (haplotype B) on *Bactericera cockerelli* (Šulc) during first oviposition cycle: fitness and vitellogenesis. *Insect Science*, *In press*. doi: 10.1111/1744-7917.12599.
- 39) Mendoza-Herrera, A.^, Levy, J., Harrison, K.***, Yao, J.***, Ibanez, F.**; **Tamborindeguy, C.**^{2,4,6,7} 2018 Infection by 'Candidatus Liberibacter solanacearum' haplotypes A and B in *Solanum lycopersicum* 'MoneyMaker'. *Plant Disease*, *In press*. doi: 10.1094/PDIS-12-17-1982-RE

Impact: This paper reports differences in pathogenicity between 'Candidatus Liberibacter solanacearum' haplotypes A and B in tomato. These results will pave the way to identify bacterial proteins involved in plant infection and symptom development. This study also showed differences of haplotypes distribution in planta, these differences have deep implications for sampling and diagnostics.

- [38] Huot O.**; Levy J., **Tamborindeguy C.**^{2,4,7} 2018 Global gene regulation in tomato plant (*Solanum lycopersicum*) responding to vector (*Bactericera cockerelli*) feeding and pathogen ('Candidatus Liberibacter solanacearum') infection. *Plant Molecular Biology*, 97: 57-72. doi: 10.1007/s11103-018-0724-y.
- [37] Calkins, T.; Chen, M.; Arora, A.; Hawkings, C.**; **Tamborindeguy, C.**^{2,4}; Pietrantonio, P 2018 Brain gene expression analyses in virgin and mated queens of fire ants reveal mating-independent and socially-regulated changes. *Ecology and Evolution*, 8:4312-4327. doi: 10.1002/ece3.3976

Impact: This study showed that several changes in gene expression in the brain of mated fire ant queens are not related to mating but to changes in the social context (from subordinate queen to dominant queen). These results are important in the context of the evolution of sociality.