

Project Title: Endocrine-disrupting chemicals, global warming, and reproductive health in fishes

PIs: Reynaldo Patiño and Ricardo Hattori

Progress report

I. Proposals submitted and funded

1. Caracterização dos processos de determinação e diferenciação sexual de peixes nativos de importância econômica no Brasil / Characterization of the processes of sex determination and differentiation of native fish of economic importance in Brazil

PIs: Fernanda Loureiro Almeida Osullivan, Ricardo Shohei Hattori

Collaborator: Reynaldo Patiño

Funding source: EMBRAPA

Project period: 07/2017 to 06/2019

II. Publications crediting TTU-FAPESP seed grant

1. Book chapter

Patiño, R. In press. Sex determination, gonadal sex differentiation, and sex control in Channel Catfish. Pages xx-yy in Sex Control in Aquaculture (Wang, H.P., Piferrer, F., Chen, S.L., eds.), Wiley-Blackwell.

2. Review article (in preparation)

Hattori, R.S., Patiño, R. Global warming, endocrine disruptors, and population sex ratios in fishes (tentative title).

III. Seminars and conference presentations crediting TTU-FAPESP seed grant

1. Patiño, R. Wildlife Endocrine Disruption: History, Current Status and Future Outlook. Tokyo University of Marine Science and Technology, September 2016, Tokyo, Japan

2. Patiño, R. Wildlife Endocrine Disruption: History, Present Status, and Future Outlook. 12th Scientific Meeting of the Fisheries Institute, April 2017, São Paulo, Brazil

IV. Site visits

Hattori

1. Lubbock (USA), 27 Jul-2 Aug 2016: visit TTU laboratories and plan project

2. Lubbock (USA), 22-27 May 2017: discuss and plan review article

Patiño

1. Tokyo (Japan), 19-25 Sep 2016: present seminar and discuss possible collaboration with TTU-FAPESP project

2. São Paulo (Brazil), 4-11 Apr 2017: presentation at Fisheries Institute conference, visit of APTA fish research and production facility in Campus de Jordão

V. Plans

1. Workshops

“Basic and applied fish reproductive biology” being considered for late fall 2017 or spring 2018 in Campus de Jordão (São Paulo, Brazil)

2. Upcoming conference attendance

Eighth International Symposium on Vertebrate Sex Determination, 16-20 Apr 2018, Kona, Hawaii

3. Proposals

Development and submission of additional research proposal is anticipated before end of project.