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Major Professor: Ricki Colman, PhD/ Toni Ziegler, PhD

Degree Objective: Ph.D. Endocrinology and Reproductive Physiology

Background: B.S. Biology, Universidade Federal do Rio Grande do Norte – Natal, RN, Brazil

M.S. Endocrinology and Reproductive Physiology, University of Wisconsin-Madison –
Madison, WI, USA

Current Research Project:

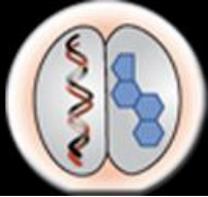
Adult common marmosets show sex differences in their social behavior as a result of their breeding position within their family environment. These differences can be seen in the time they spend in social activities and may reflect their physiological responses to family and social interactions. Certain behaviors and levels of cortisol may reflect a behavioral style that provides the individual with better coping skills when they are under stress such as when they are socially isolated. However, few studies have addressed sex differences in social behavior in juvenile common marmosets prior to puberty. Considering this, I will be testing the following hypothesis: cortisol's relationship to sex differences in social behavior for juvenile common marmosets living within their families will predict behavioral and neuroendocrine responses to stress.

Specifically, I am interested in the following questions:

- 1) Are there differences in social behaviors within the family environment that reflect different behavioral styles between males and females?
- 2) Are there cortisol differences that are associated with the different behavioral styles?
- 3) What are the behavioral differences in response to the stress of acute social separation between males and females?

Honors:

- Ruppenthal Student Travel Award, American Society of Primatologists, 2020 (cancelled due to the COVID-19 pandemic)



National Presentations:

- Oral presentation: *Neuroendocrine and behavioral responses to a social separation test in juvenile marmosets*. G. F. Oliveira, T. E. Ziegler, R. J. Colman. The 42nd Meeting of the American Society of Primatologists 2019, Madison-WI.

Publications:

1. Sex Differences in Kin Recognition through odors during Times of Stress in Juvenile Common Marmosets, *Callithrix jacchus*. Toni E Ziegler, Gabriela de Faria Oliveira, Hayley Ash, Natalie J. Dukes, Ricki J. Colman. 2021, *submitted to The Royal Society*
2. Individual differences in sociality influence reactivity to social separation in juvenile common marmosets, *Callithrix jacchus*. Gabriela de Faria Oliveira, Ricki J. Colman, Natalie Dukes, Hayley Ash, Toni E. Ziegler. 2021, *in preparation for Psychoneuroendocrinology*
3. Differential brain activation of the reward system from social odors of familiar and unfamiliar conspecifics during social isolation in prepubertal common marmosets, *Callithrix jacchus*. Toni E. Ziegler, Hayley Ash, Gabriela de Faria Oliveira, Natalie Dukes, Praveen Kulkarni, M. Elizabeth Mayerand, Ricki J. Colman, Craig Ferris. 2021, *preparing data analysis*.

Teaching and Mentorship:

TA: Biocore 486: Principles of Physiology Lab, Fall 2021