



Name: Molly Willging

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Major Professor: David Abbott, Jon Levine

Degree Objective: Endocrinology and Reproductive Physiology

Background: B.S. Genetics, Certificate in Gender & Women's Studies, Spanish Emphasis, University of Wisconsin-Madison

Current Research Project:

Studying the role of ovarian and extra-ovarian estrogen in regulating metabolism in adult, female, non-human primates.

Honors:

Endocrine Society Presidential Presentation Award Nomination (*cancelled due to COVID-19) 2020

Poster Presentation Award for Endocrinology & Reproductive Physiology Training Program 2020

WISCIENCE Scientific Teaching Fellowship 2021-2022

Grants Received: (list the grant title, PI, project years)

TEAM-Science: National Institute of General Medical Sciences of the National Institutes of Health under award number R25GM083252 (2021-2023)

Publications:

Levine, JE, Kraynak M, **Willging MM**, Flowers MT, Colman RJ, and Abbott, DH. *Hypothalamic ERalpha Gene Silencing Induces Obesity in Female Rhesus Monkeys* [abstract]. In: Endocrine Society Annual Meeting; March 16th-20th, 2018. Endocrine Reviews, April 2018. Volume 39, Issue 2.

Willging MM, Levine JE, Greinwald EP, Flowers MT, Colman RJ, and Abbott DH
Hypothalamic ESR1 Gene Knockdown Elicits Intermittent Decrement In Postprandial Energy Expenditure Associated With Obesity Onset In Female Rhesus Monkeys [abstract]. In: Endocrine Society Annual Meeting; March 27th-31st, 2020. Endocrine Reviews, April 2020

National Presentations: (list the name of the meeting, abstract title, year and location of the meeting. Also indicate if the presentation is an oral or poster presentation)

Willging MM*, Levine JE, Kraynak M, Greinwald EP, Flowers MT, Colman RJ, and Abbott DH
Aromatase Inhibition Eliminates Sexual Receptivity Without Enhancing Weight Gain in Ovariectomized Marmoset Monkeys. 2020 Marmoset BioScience Symposium, Virtual Format, 2020 (poster presentation)



Willging MM*, Levine JE, Greinwald EP, Flowers MT, Colman RJ, and Abbott DH
Hypothalamic ESR1 Gene Knockdown Elicits Intermittent Decrement In Postprandial Energy Expenditure Associated With Obesity Onset In Female Rhesus Monkeys. Mitochondrial Keystone Meeting, Whistler, BC, May 17-21st, 2020 (poster presentation**)

Willging MM*, Levine JE, Greinwald EP, Flowers MT, Colman RJ, and Abbott DH
Hypothalamic ESR1 Gene Knockdown Elicits Intermittent Decrement In Postprandial Energy Expenditure Associated With Obesity Onset In Female Rhesus Monkeys. Endocrine Society Annual Meeting, San Francisco, CA, March 28th, 2020 (poster & invited oral presentation**)

Willging MM*, Levine JE, Kraynak M, Flowers MT, Colman RJ, and Abbott DH, *Hypothalamic ERalpha gene silencing induces obesity in female rhesus monkeys.*
SigmaXi Student Research Conference, Madison, WI, November 15th, 2019 (presented poster)

Willging MM*, Levine JE, Kraynak M, Flowers MT, Colman RJ, and Abbott DH, *Hypothalamic ERalpha gene silencing induces obesity in female rhesus monkeys.*
Frontiers in Metabolism Conference, Madison, WI, September 2018 (presented poster)

Willging MM*, Levine JE, Kraynak M, Flowers MT, Colman RJ, and Abbott DH, *Hypothalamic ERalpha gene silencing induces obesity in female rhesus monkeys.*
Endocrine Society Annual Meeting, Chicago, IL, March 2018 (presented poster)

***denoting presenter**

****cancelled due to COVID-19**

Other Presentations: (list the name of the meeting, abstract title, year and location of the meeting. Also indicate if the presentation is an oral or poster presentation)

Willging MM*, Levine JE, Greinwald EP, Flowers MT, Colman RJ, and Abbott DH
Hypothalamic ESR1 Gene Knockdown Elicits Intermittent Decrement In Postprandial Energy Expenditure Associated With Obesity Onset In Female Rhesus Monkeys. Diabetes Day 2021 Conference, Madison, WI, March 2021 (invited oral presentation)

Willging MM*, Levine JE, Greinwald EP, Flowers MT, Colman RJ, and Abbott DH
Hypothalamic ESR1 Gene Knockdown Elicits Intermittent Decrement In Postprandial Energy Expenditure Associated With Obesity Onset In Female Rhesus Monkeys. Diabetes Day 2020 Conference, Madison, WI, March 2020 (poster presentation**)

Willging MM*, Levine JE, Kraynak M, Flowers MT, Colman RJ, and Abbott DH, *Hypothalamic ERalpha gene silencing induces obesity in female rhesus monkeys.*
Neuroscience Poster Seminar, Madison, WI, November 2019 (presented poster)

Willging MM*, Levine JE, Kraynak M, Flowers MT, Colman RJ, and Abbott DH, *Hypothalamic ERalpha gene silencing induces obesity in female rhesus monkeys.*
Women's Health & Health Equity Research Symposium, Madison, WI, Oct 2019 (presented poster)

Willging MM*, Kemnitz JW and Abbott DH,
Polycystic Ovary Syndrome: Role of Insulin Resistance.
CALs Undergraduate Research Symposium, Madison, WI, April 2019 (oral presentation)



Willging MM*, Levine JE, Kraynak M, Flowers MT, Colman RJ, and Abbott DH, *Hypothalamic ERalpha gene silencing induces obesity in female rhesus monkeys.*

UW-Madison Undergraduate Research Symposium, Madison, WI, April 2019 (oral presentation)

Willging MM*, Kraynak M, Greinwald EP, Levine JE, Colman RJ, Flowers MT, and Abbott DH, *Hypothalamic ERalpha gene silencing diminishes rewarding salience in female rhesus macaques.*

WISCIENCE Summer Research Symposium, Madison, WI, August 2018 (presented poster)

Willging MM*, Levine JE, Kraynak M, Flowers MT, Colman RJ, and Abbott DH, *Hypothalamic ERalpha gene silencing induces obesity in female rhesus monkeys.*

Wisconsin National Primate Research Center Seminar, Madison, WI, June 2018 (invited oral presentation)

Willging MM*, Levine JE, Kraynak M, Flowers MT, Colman RJ, and Abbott DH, *Hypothalamic ERalpha gene silencing induces obesity in female rhesus monkeys.*

SMPH Department Day, Madison, WI, May 2018 (presented poster)

***denoting presenter**

****cancelled due to COVID-19**

Teaching and Mentorship:

Graduate Student Course Facilitator, WISCIENCE, UW-Madison	Summer 2020
Teaching Assistant, Department of Psychology, UW-Madison	Spring 2020, Spring 2021
Teaching Assistant, Department of Integrative Biology, UW-Madison	Fall 2019
College of Agricultural & Life Sciences QuickStart Leader, UW-Madison	August 2018
WISCIENCE Summer Research Course Facilitator, UW-Madison	Summer 2018
BioHouse Graduate Student Mentor, WISCIENCE, UW-Madison	Fall 2020
Abbott Lab Graduate Student Mentor, Wisconsin National Primate Research Center	2020-present

ERP Service:

2021 Interview Day Volunteer