

M E T A M . L A N D Y S

Oregon State University
Department of Integrative Biology
Email: landysm@oregonstate.edu

EDUCATION

Post-doctorate Fellowship (2006)
Centre for Ecological and Evolutionary Synthesis, University of Oslo, Norway
Advisor: Dr. Tore Slagsvold

Ph.D. (2003)
Department of Biology, University of Washington, Seattle
Advisors: Drs. John Wingfield and Marilyn Ramenofsky
Thesis title: *The role of baseline corticosterone in the regulation of migration*

B.S. with Distinction (1996)
Department of Biology, University of Michigan, Ann Arbor

HISTORY OF PROFESSIONAL EXPERIENCE

Instructor, Department of Integrative Biology, Oregon State University
(2012 – present)

Courtesy Faculty, Department of Fisheries and Wildlife, Oregon State University
(2008 – 2019)

Part-time Faculty, Department of Biological Sciences, Linn-Benton Community College
(2013 – 2014)

Researcher, Institute of Marine Research, Flødevigen Research Station, Norway
(2013)

TEACHING AT OREGON STATE UNIVERSITY

BI 212 Introduction to Biology: Animal and Plant Physiology

BI 311 Genetics (Ecampus)

Z 423 Environmental Physiology (Ecampus)

BI 319 (WIC) Theory, Practice and Discourse in the Life Sciences (Ecampus)

Z 437/537 Vertebrate Endocrinology

DIRECTED STUDENT LEARNING

Graduate Committee Member for Madeleine Scott
M.S. in Fisheries and Wildlife, in progress

Graduate Committee Member for Logan Pallin
M.S. in Fisheries and Wildlife, 2017

Capstone Project Mentor for Jeff Jones
M.N.R (non-thesis option) in Forest Ecosystem and Society, 2014

AWARDS

Quality Matters certification for Ecampus BI 311 Genetics (2018)

Quality Matters certification for Ecampus Z 423 Environmental Physiology (2016)

Marie Curie Incoming International Fellowship (European Community) (2004)

Ingrith Deyrup-Olsen Distinguished Zoology Teaching Assistant Award, UW (2002)

Crary Award for Excellence in Introductory Biology Laboratory Teaching, UW (1998)

ARCS Fellowship Award (1996)

B. S. Degree of Distinction Award, UM (1996)

James B. Angell Scholar Award, UM (1995 & 1996)

Alumni Scholarship Award, UM (1995)

Sophomore Honors Award, UM (1993)

Class Honors Award, UM (1993)

Alumni Scholarship Award, UM (1991)

PUBLICATIONS

Walker, B.G., Meddle, S.L., Romero, L.M., **Landys, M.M.**, Reneerkens, J., Wingfield, J.C. 2015. Response to acute stress in two high arctic passerines. *J. Exp. Zool.* 323A: 266-275.

Landys, M.M., Goymann, W., Soma, K.K., Slagsvold, T. 2013. Year-round territorial aggression is independent of plasma DHEA in the European nuthatch *Sitta europaea*. *Hormones and Behavior.* 63: 166-172.

- Goymann, W., **Landys, M.M.** 2011. Testosterone and year-round territoriality in tropical and non-tropical songbirds. Journal of Avian Biology 42: 485-489.
- Landys, M.M.**, Goymann, W., Slagsvold, T. 2011. Rearing conditions have long-term consequences for stress responsiveness in free-living great tits. General and Comparative Endocrinology 174: 219-224.
- Landys, M.M.**, Goymann, W., Schwabl, I., Trapschuh, M., Slagsvold, T. 2010. Impact of season and social challenge on testosterone and corticosterone levels in a year-round territorial bird. Hormones and Behavior 58: 317-325.
- Durant, J.M, **Landys, M.M.**, Handrich, Y. 2008. Composition of the body mass overshoot in European barn owl nestlings (*Tyto alba*): insurance against scarcity of energy or water? Journal Comparative Physiology B 178: 563-571.
- Goymann, W., **Landys, M.M.**, Wingfield, J.C. 2007. Distinguishing seasonal androgen responses from male-male androgen responsiveness – revisiting the Challenge Hypothesis. Hormones and Behavior 51: 463-476.
- Landys, M.M.**, Goymann, W., Raess, M., Slagsvold, T. 2007. Hormonal responses to male-male social challenge in the blue tit *Cyanistes caeruleus*: single broodedness as an explanatory variable. Physiological and Biochemical Zoology 80: 228-240.
- Landys, M.M.**, Ramenofsky, M., Wingfield, J.C. 2006. Action of corticosteroids at a seasonal baseline as compared to stress-related levels in the regulation of periodic life processes. General and Comparative Endocrinology 148: 132-149.
- Le Galliard, J. -F., Massot, M., **Landys, M.M.**, Meylan, S., Clobert, J. 2006. Ontogenic sources of variation in sexual size dimorphism in a viviparous lizard. Journal of Evolutionary Biology 19:690-704.
- Landys, M.M.**, Piersma, T., Guglielmo, C.G., Jukema, J., Ramenofsky, M., Wingfield, J.C. 2005. Metabolic profile of long-distance migratory flight and Stopover in a shorebird. Proceedings of the Royal Society of London 272: 295-302.
- Landys, M.M.**, Wingfield, J.C., Ramenofsky, M. 2004. Plasma corticosterone increases during migratory restlessness in the captive white-crowned sparrow *Zonotrichia leucophrys gambellii*. Hormones and Behavior 46:574-581.
- Landys, M.M.**, Piersma, T., Ramenofsky, M., Wingfield, J.C. 2004. Role of the low-affinity glucocorticoid receptor in the regulation of behavior and energy metabolism in the migratory red knot *Calidris canutus islandica*. Physiological and Biochemical Zoology 77: 658-668.
- Landys, M.M.**, Ramenofsky, M., Wingfield, J.C. 2004. The low-affinity glucocorticoid receptor regulates feeding and lipid breakdown in the migratory white-crowned sparrow *Zonotrichia leucophrys gambellii*. Journal of Experimental Biology 207:143-154.

Landys-Ciannelli, M.M., Piersma, T., Jukema, J. 2003. Strategic size changes of internal organs and muscle tissue in the bar-tailed godwit during fat storage on a spring stopover site. Functional Ecology.17: 151-159.

Ramenofsky, M., Agatsuma, R., Barga, M., Cameron, R., Harm, J., **Landys, M.**, Ramfar, T. 2003. Migratory behavior: new insights from captive studies. In: *Avian Migration* (eds. P. Bertold and E. Gwinner), pp. 97-111. Heidelberg: Springer Verlag.

Landys, M.M., Jukema, J., Piersma, T. 2002. Blood parameter changes during stopover in a long-distance migratory shorebird, the bar-tailed godwit *Limosa lapponica taymyrensis*. Journal of Avian Biology. 33: 451-455.

Landys-Ciannelli, M.M., Ramenofsky, M., Piersma, T., Jukema, J., Castricum Ringing Group, Wingfield, J.C. 2002. Baseline and stress-induced plasma corticosterone during long-distance migration in the Bar-tailed Godwit, *Limosa lapponica*. Physiological and Biochemical Zoology 75: 101-110.

Landys, M.M., Piersma, T., Visser, G.H., Jukema, J., Wijker, A. 2000. Water balance during real and simulated long-distance migratory flight in the Bar-tailed Godwit. Condor 102:645-653.

DEPARTMENTAL AND UNIVERSITY SERVICE

Teaching Peer Review Committee, Dept of Integrative Biology (2019-current)

Seminar Committee, Dept of Integrative Biology (2019-current)

Peer Review of Teaching Committee, Dept of Fisheries and Wildlife (2018-2019)

Public Relations and Outreach Committee, Dept of Integrative Biology (2018)

Undergraduate Curriculum Committee, Dept of Integrative Biology (2016-2019)

PROFESSIONAL INVITED SEMINARS

2020 Undergraduate Student Success Summit, OSU
"Simple strategies to encourage student retention/success" [*invited speaker*]

2020 Integrative Biology Instructional Techniques Seminar (IBio-BITs), OSU
"Simple strategies to encourage student retention/success" [*presenter*]

2019 Fall WIC Luncheon Pedagogy Seminar, OSU
"Strategies for running peer review in face-to-face and online sections of a WIC course" [*invited speaker*]

2019 Ecampus Teaching Online Pedagogical Seminars (TOPS) Series, OSU
"Increasing retention of online students" [*invited speaker*]

- 2011 Avian Ecology Study Group (AVES) Seminar, F&W Department, OSU
 "Testosterone in the mediation of life history trade-offs" [*invited speaker*]
- 2007 Avian Ecology Study Group (AVES) Seminar, F&W Department, OSU
 "Testing the challenge hypothesis: Hormonal responses to territorial conflict and their functional significance in blue tits" [*invited speaker*]
- 2006 International Ornithology Congress, Hamburg, Germany
 "Testing the challenge hypothesis in blue tits: Hormonal responses to territorial conflict and their functional significance" [*presenter*]
- 2006 Landys MM, Goyman W, Soma KK, Slagsvold T. 2006. Dihydroepiandrosterone (DHEA) and territorial aggression in the European nuthatch. Society for Integrative and Comparative Biology Annual Meeting. Orlando, Florida. [*presenter*]
- 2005 Landys MM, Decenciere B, Goyman W, Slagsvold T. 2005. Effects of cross-fostering on territorial aggression and plasma testosterone in the male blue tit. Society for Integrative and Comparative Biology Annual Meeting. San Diego, California. [*presenter*]
- 2004 Max Planck Institute for Ornithology, Andechs, Germany
 "The role of corticosterone in the support of avian migration" [*invited speaker*]
- 2004 University of Oslo, Norway
 "The role of corticosterone in the orchestration of behavior and physiology avian migration" [*invited speaker*]
- 2004 University of Groningen, Netherlands
 "The role of corticosterone in the orchestration of behavior and physiology avian migration" [*invited speaker*]
- 2003 Landys-Ciannelli MM, Ramenofsky M, Wingfield JC. 2003. The glucocorticoid receptor promotes feeding and lipid breakdown in the migratory white-crowned sparrow. Society for Integrative and Comparative Biology Annual Meeting. Toronto, Ontario. [*presenter*]
- 2001 Landys MM, Ramenofsky M, Piersma T, Wingfield JC. 2001. Regulation of potentially conflicting behavior and physiology during migration. Society for Integrative and Comparative Biology Annual Meeting. Chicago, Illinois. [*presenter*]