

Dr. Jenny Q. Ouyang
Curriculum vitae

University of Nevada, Reno
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EDUCATION

- 2012 Ph.D. in Ecology and Evolutionary Biology (Princeton University)
Adviser: Michaela Hau
Title: What makes an individual successful? Individual variation in hormones, behavior, and fitness
- 2009 M.A. in Ecology and Evolutionary Biology (Princeton University)
GPA: 4.0
- 2007 B.S. in Biology (University of California, Irvine)
Thesis advisers: Nancy Burley and George L. Hunt, Jr.
(Honors in Major, GPA: 3.93, *Magna Cum Laude*)
- B.A. in French (University of California, Irvine)
(Honors in Major, GPA: 3.93, *Magna Cum Laude*)
- 2005 Coursework at Shoals Marine Laboratory (Cornell University)

APPOINTMENTS

- 2016-present Assistant professor, University of Nevada, Reno
- 2013-2015 National Science Foundation Postdoctoral Fellow, Netherlands Institute of Ecology
(Funding: NSF DBI-1306025 to JQO)
Collaborators: Kamiel Spoelstra and Marcel Visser
- 2012-2013 Postdoctoral Associate, Virginia Tech
(Funding: NSF IOS-1145625 to FB, MH, & ITM)
Collaborators: Frances Bonier, Mark Haussmann, and Ignacio Moore

PUBLICATIONS

Researcher ID: J-2530-2014

- 2021 Alaasam, V.J., Xiu L., Zhang Y., Niu Y., Ferguson B., Pieraut S., **Ouyang J.Q.** Effects of dim artificial light at night on locomotor activity, cardiovascular physiology, and circadian clock genes in a diurnal songbird. *Environmental Pollution*, 282.
- Heppner, J. J., & **Ouyang, J. Q.** Incubation behavior differences in urban and rural house wrens, *Troglodytes aedon*. *Frontiers in Ecology and Evolution*, 9(89).
- Ouyang, J. Q.**, Macaballug, P. †, Chen, H. †, Hodach, K †, Tang, S. †, & Francis, J. S. Infrared thermography is an effective, noninvasive measure of HPA activation. *Stress*, 1-6.

- 2020 Grant, A. R., Baldan, D., Kimball, M. G., Malisch, J. L., & **Ouyang, J. Q.** Across time and space: Hormonal variation across temporal and spatial scales in relation to nesting success. *General and Comparative Endocrinology*, 292, 113462.
- Baldan, D., & **Ouyang, J. Q.** Urban resources limit pair coordination over offspring provisioning. *Scientific Reports*, 10(1), 15888.
- Vagasi, C., Tóth, Z., Péntzes, J., Pap, P. L., **Ouyang, J. Q.**, & Lendvai, Á. Z. The Relationship between Hormones, Glucose and Oxidative Damage is Condition- and Stress-dependent in a Free-living Passerine Bird. *Physiological and Biochemical Zoology*.
- Injaian, A. S., Francis, C. D., **Ouyang, J.Q.**, Dominoni, D. M., Donald, J. W.* , Fuxjager, M. Goymann, W.* , Hau, M.* , Husak, J.F.* , Johnson, M.A.* , Kircher, B.K.* . Knapp, R.* , Martin, L.B.* , Vitousek, M.N. 2020. Baseline and stress-induced corticosterone levels across birds and reptiles do not reflect urbanization levels. *Conservation Physiology*, 8
*Authors in alphabetical order
- Zhou, Y., Chen, A., **Ouyang, J. Q.**, Liu, Y., Zheng, A., Yang, Z., Lu, C. Comparing community birdwatching and professional bird monitoring with implications for avian diversity research: a case study of Suzhou, China. *Avian Research*, 11(1), 19.
- 2019 **Ouyang J.Q.**, Baldan, D., Munguia, C. †, & Davies, S. Genetic inheritance and environment determine endocrine plasticity to urban living. *Proceedings of the Royal Society B: Biological Sciences*, 286, 1908.
- 2019 fall maternity leave
- 2018 **Ouyang, J.Q.**, Isakkson, C., Schmidt, C., Hutton, P., Bonier, F., Dominoni, D. A new framework for urban ecology: An integration of ultimate and proximate responses to anthropogenic change. *Integrative and Comparative Biology* 58, 915-928.
- Toth, Z., **Ouyang, J.Q.**, Lendvai, A. Exploring the mechanistic link between corticosterone and insulin-like growth factor-1 in a wild passerine bird. *PeerJ* 6, e5936.
- Alaasam, V.J., Duncan, R., Casagrande, S., Davies, S., Sidher, A., Seymoure, B., Shen, Y., Zhang, Y. & **Ouyang, J.Q.** Light at night disrupts nocturnal rest and elevates glucocorticoids at cool color temperatures. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology* 0.
- Jong, M., Lamers Koosje, P., Eugster, M., **Ouyang, J.Q.**, Da Silva, A., Mateman, A.C., Grunsven Roy, H.A., Visser Marcel, E. & Spoelstra, K. Effects of experimental light at night on extra-pair paternity in a songbird. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology* 0.
- Ouyang, J.Q.**, Davies, S. & Dominoni, D. Hormonally mediated effects of artificial light at night on behavior and fitness: linking endocrine mechanisms with function. *The Journal of Experimental Biology* 221.

- 2017 Davies, S, Haddad, N. †, **Ouyang, JQ.** Stressful city sounds: glucocorticoid responses to experimental traffic noise are environmentally-dependent. *Biology letters*.
- Ouyang JQ**, de Jong M, van Grunsven RHA, Matson KD, Haussmann MF, Meerlo P, Visser ME, Spoelstra K. What type of rigorous experiments are needed to investigate the impact of artificial light at night on individuals and populations? *Global Change Biology*.
- Ouyang JQ**, de Jong M, van Grunsven RHA, Matson KD, Haussmann MF, Meerlo P, Visser ME, Spoelstra K. Restless roosts: Light pollution affects behavior, sleep, and physiology in a free-living songbird. *Global Change Biology*.
- Welbers AAMH, van Dis NE, Kolvoort AM, **Ouyang JQ**, Visser ME, Spoelstra K, Dominoni DM. 2017. Artificial Light at Night Reduces Daily Energy Expenditure in Breeding Great Tits (*Parus major*). *Frontiers in Ecology and Evolution* 5(55).
- 2016 de Jong, M., **Ouyang, J.Q.**, van Grunsven, R.H.A., Visser, M.E., Spoelstra, K. Do wild great tits avoid exposure to light at night? *PLoS ONE* 11(6): e0157357.
- Dakin R., **Ouyang J.Q.**, Lendvai Á.Z., Haussmann M.F., Moore I.T., Bonier F. Weather matters: begging calls are temperature- and size-dependent signals of offspring state. *Behaviour* 153(8):871-896.
- Ouyang, J.Q.***, Lendvai, Á.Z.* , Moore I.T., Bonier F., Haussmann, M.H. Do hormones, telomere lengths, and oxidative stress form an integrated phenotype? A case study in free-living tree swallows. *Integrative and Comparative Biology*. 56(2):138-145.
*authors contributed equally, shared first-authorship
- Hau, M., Casagrande, S., **Ouyang, J.Q.**, Baugh, A.T. Glucocorticoid-mediated phenotypes in vertebrates: multilevel variation and evolution. *Advances in the Study of Behavior* 48: 41-115.
- de Jong M., Jeninga L., **Ouyang J.Q.**, van Oers K., Spoelstra K., Visser M.E. Dose-dependent responses of avian daily rhythms to artificial light at night. *Physiology & Behavior* 155: 172-179.
- Dakin, R., Lendvai, A.Z., **Ouyang, J.Q.**, Moore, I.T., Bonier, F. Plumage colour is associated with partner parental care in mutually ornamented tree swallows. *Animal Behaviour* 111: 111-118.
- 2015 **Ouyang, J.Q.*** Lendvai, Á.Z.* , Dakin, R., Domalik, A.D.†, Fasanello, V.J.†, Vassallo, B.G. †, Haussmann, M.F., Moore, I.T., & Bonier, F. Weathering the storm: parental effort and stress hormones predict brood survival. *BMC Evolutionary Biology* 15: 219
*authors contributed equally, shared first-authorship
- Ouyang, J.Q.**, de Jong, M., Hau, M., Visser, M.E., van Grunsven, R.H.A. & Spoelstra, K. Stressful colours: corticosterone concentrations in a free-living songbird vary with the spectral composition of experimental illumination. *Biology Letters* 11
Press coverage: *The Guardian*
Key teaching text at the University of Liverpool

Lendvai, Á.Z., Akçay, Ç., **Ouyang, J.Q.**, Dakin, R., St. John, P.S., Stanback, M., Moore, I.T., and Bonier, F. Analysis of the optimal duration of behavioral observations on an automated continuous monitoring system in tree swallows (*Tachycineta bicolor*): is one hour good enough? *PLoS One*, 9, e110564

de Jong, M., **Ouyang, J.Q.**, Silva, A. van Grunsven, R.H.A., Kempenaers, B., Visser, M.E., & Spoelstra, K. Nocturnal illumination of habitat: altered life-history decisions and effects on fitness in wild birds. *Philosophical Transactions of the Royal Society B: Biological Sciences* 370.

2014 **Ouyang, J.Q.**, van Oers, K., Quetting, M., & Hau, M. Becoming more like your mate: hormonal similarity reduces divorce rates in a wild songbird. *Animal Behavior* 98, 87-93.

Lendvai, A.Z.* **Ouyang, J.Q.***, Schoenle, L.A., Fasanello, V.J.†, Hausmann, M.F., Moore, I.T., & Bonier, F. Experimental food restriction reveals individual differences in corticosterone reaction norms with no oxidative costs. *PLoS One* 9, e110564.

*authors contributed equally, shared first-authorship

2013 **Ouyang, J.Q.**, Sharp, P., Quetting, M. & Hau, M. Endocrine phenotype, reproductive success and survival in the great tit, *Parus major*. *Journal of Evolutionary Biology* 26: 1988-98.

Ouyang, J.Q., Muturi, M.†, Quetting, M. & Hau, M. Small increases in corticosterone before the breeding season increase parental investment but not fitness in a wild passerine bird. *Hormones and Behavior* 63: 776-781.

2012 **Ouyang, J.Q.**, Quetting, M., Hau, M. Corticosterone and brood abandonment in a passerine bird. *Animal Behaviour*: 84, 261-268.

Media: *Discovery News*

2011 **Ouyang, J.Q.**, Hau, M., Bonier, F. Within seasons and among years: when are corticosterone levels repeatable? *Hormones and behavior*: 60, 559-564.

Ouyang, J. Q., Sharp, P. J., Dawson, A., Quetting, M., Hau, M. Hormone levels predict individual differences in reproductive success in a passerine bird. *Proceedings of the Royal Society B: Biological Sciences* 278: 2537-2545.

Media: *Science Daily, Cell News, e! Science News, The Daily Princetonian*

2010 Cordoba-Cordoba, S., **Ouyang, J.Q.**, Hauck, S. J. Nesting preferences and population estimates of a new Black Noddy (*Anous minutus*) breeding colony on One Tree Island, Great Barrier Reef., *Marine Ornithology* 38: 79-84.

Other **Ouyang, J. Q.** 2005. Diets of adult and chick western gulls on Santa Barbara Island. *Journal of Undergraduate Research in the Biological Sciences* 35: 703-714.

†Denotes undergraduate collaborator

RESEARCH GRANTS AND FELLOWSHIPS		
2019-2022	\$431,567	NIH R15ES030548 Circadian disruption and consequences of light pollution (PI; Co-PI: Yong Zhang)
2017-2019	\$160,430	NSF OIA-1738594 Mechanisms underlying transgenerational inheritance

		of the stress phenotype (PI)
2017-2019	\$420,000	NIH P20 GM103650 Neurosensory function in response to artificial light at night (PL, PI: Mike Webster)
2014	€150,000	Hungarian Scientific Research Fund OTKA Fountain of youth: insulin regulatory mechanisms (Co-PI; PI: Adam Lendvai)
2013	\$151,416	National Science Foundation Postdoctoral Research Fellowship in Biology (DBI-1306025)
2007-2012	\$90,000	National Science Foundation Graduate Research Fellowship Program (DGE-0646086)
2011	\$1,200	Frank M. Chapman Memorial Grant
2011	\$1,000	Society for Integrative and Comparative Biology Grant-in-Aid of Research
2009	\$2,000	Princeton University Summer Research Grant
2008	\$1,000	Sigma Xi Grant-in-Aid of Research
2007	\$68,000	Princeton First Year Graduate Fellowship
2003-2007	\$36,000	Universities of California, Regent's Scholar
2006	\$14,000	Barry M. Goldwater Fellowship

AWARDS

2013	Broadening Participation Grant, Society of Integrative and Comparative Biology (\$500)
2011	National Science Foundation Graduate Fellowship travel grant (\$1,000)
2011	Society for Experimental Biology Travel Grant (\$244)
2011	Society of Integrative and Comparative Biology Travel Award (\$500)
2008	International Society for Behavioral Ecology Travel Award (\$500)
2007	Joseph H. Stephens Grant for Excellence in Research (\$700)
2006	University of California summer research grant for undergraduates (\$1,500)
2005	Universities of California Leadership Excellence through Advanced Degrees (\$5,000)
2003-2007	Robert C. Byrd Scholarship (\$2,000)

TEACHING QUALIFICATIONS AND EXPERIENCE

Courses taught:

Instructor, University of Nevada, Reno (BIO 414 Endocrinology, fall 2020)

Instructor, University of Nevada, Reno (BIO 316 Comparative Animal Physiology, fall 2016, spring 2017, fall 2017, fall 2018, fall 2020)

Assistant Instructor, 2010, Princeton University (EEB 327, Evolution of the Immune System)

Assistant Instructor, 2008, Princeton University (EEB 211 Introductory Biology Lab)

As an assistant instructor at Princeton, I gave lectures and oversaw student projects. I designed and coordinated the discussion sessions and guided final student papers, including instruction on statistical analysis.

Teaching Assistant, 2005, UC Irvine (E106 Evolutionary Processes)

As a teaching assistant at UC Irvine, I led discussion sessions and tutored students.

Invited guest lectures:

Fall 2013 Virginia Tech (Animal Physiology) – eight weeks

Spring 2012 Princeton University (Comparative Physiology) – two lectures

Qualifications:

Completed “Teaching Transcript” Pedagogy Program, McGraw Center, Princeton University (2007-2012)
 Attended teaching orientation & pedagogy programs, served as teaching assistant & received feedback,
 developed teaching statement & course syllabus

Teaching awards:

2018 Nominated, Paul and Judy Bible University Teaching Excellence Award
 2008 Teaching Service Award (K-12 education), Princeton University
 2007 Language Teaching Award, UC Irvine

Student supervision (current: 4 graduate students, 12 undergraduate students):

Since arrival at UNR in 2016, supervised 43 undergraduate students (9 with honors theses, 7 with co-authored publications)

2020-present Ivan Celso Provinciato, Timing of breeding and artificial light. PhD, EECB
 2019-present Cassandra Hui, Molecular and neurosensory disruption due to light pollution. PhD, Integrative Neuroscience
 2018-present Jennifer Heppner, Urbanization and phenotypic plasticity. PhD, EECB
 2017-present Valentina Alaasam. Effects of artificial light at night on behavior and physiology. PhD, EECB
 2017-2019 Avery Grant. Physiological control of facultative altitudinal migration. MSc Biology
 2016-2020 Jacquelynn Tran. Food availability influencing songbird fitness in urbanized landscapes " May 2020. *Undergraduate Honor's Thesis. Awarded UROP, Henry Albert Service Award.*
 2018-2020 Mekail Negash (McNair thesis). Testing endocrine flexibility under different environmental stressors. *Awarded NURA, McNair Scholar*
 2016-2020 Jewel Lapira. Effects of cute stress on associative learning and memory in the house sparrow. *Undergraduate Honor's Thesis. Awarded NURA*
 2016-2019 Paul Macallaburg. Imaging stress: using IRT to non-invasively to measure the stress response. *Undergraduate Honor's Thesis*
Winner: Beta Beta Biology Society research scholarship
 2016-2019 Morgan Ferguson. The effects of acute stress on aggression. *Undergraduate Honor's Thesis*
 2016-2019 Crystal Munguia. Are urban-rural differences in the stress phenotype stable? *Undergraduate senior research project*
 2016-2017 Nicole Haddad. Comparing noise-induced stress in rural and urban songbirds. *Undergraduate Honor's Thesis, University of Nevada, Reno*
Winner: Honor's in Undergraduate Research, UNR
 2015-2017 Annemieke Kolvoort. Insect abundance under artificial light at night. *Master's thesis, Utrecht University*
 2014-2016 Sofia Scheltinga. Spatial movement of great tits under artificial light. *Master's thesis, Utrecht University*
 2013-2014 Alice Domalik. Individual differences in the neophobia and corticosterone. *Undergraduate honors thesis, Queen's University*
 2011-2012 Marion Muturi. Behavioral correlates of hormone manipulation. *MSc diploma thesis, University of Konstanz*
 2006-2007 Clairese Retino. Begging calls and sex allocation. *Undergraduate thesis, University of California, Irvine*

Postdoc supervision:

2019-current	Dr. Davide Baldan, currently Marie Curie Gold Medal Fellow at the University of Padova, Italy
2016-2018	Dr. Scott Davies, currently Assistant Professor at Quinnipiac University

PRESENTATIONS

Invited Seminars:

2020	Louisiana State University, Baton Rouge, LA
2019	University of California, Davis, Davis, CA
2019	University of California, Berkeley, Berkeley, CA
2018	University of Indiana, Bloomington, IN
2018	Utah State, Logan, UT (declined due to maternity leave)
2018	Texas State University, San Marcos, TX (declined due to maternity leave)
2018	Binghamton University, NY (declined due to maternity leave)
2015	University of Nevada, Reno, NV
2015	Hamilton College, Clinton, NY
2014	Konrad Lorenz Institute of Ethology, Vienna, Austria
2014	Max Planck Institute of Ornithology, Seewiesen, Germany
2014	Australia National University, Canberra, Australia
2014	University of Debrecen, Hungary
2013	Cornell University, Ithaca, NY, USA
2013	Bucknell University, Lewisburg, PA, USA
2012	Utrecht University, Utrecht, the Netherlands
2012	International Symposium on Avian Endocrinology, Gifu, Japan
2011	Netherlands Institute of Ecology, Wageningen, the Netherlands

Selected Meeting Presentations:

2020	Ouyang, J.Q. What makes an urban bird? Genetic inheritance and phenotypic plasticity. Society of Integrative and Comparative Biology, virtual
2018	Ouyang, J.Q. An integrative framework for urban ecology. <i>Symposium organizer. Society of Integrative and Comparative Biology</i> , San Francisco, CA
2017	Ouyang, J.Q. , Restless roosts: light pollution and effects. <i>Society of Integrative and Comparative Biology</i> , New Orleans, LA, USA
2016	Ouyang, J.Q. , Light pollution affects behavior and physiology. <i>International Society of Behavioral Ecology</i> . Exeter, UK. Ouyang, J.Q. , Endocrine variation as a mediator of life-history evolution: the relationship between hormones and fitness in a fluctuating environment. Invited Symposium Speaker. <i>Society of Integrative and Comparative Biology</i> , Portland, OR, USA.
2015	Ouyang, J.Q. , Hormonal regulation of divorce. <i>Society of Integrative and Comparative Biology</i> , Palm Beach, FL, USA
2014	Ouyang, J.Q. , For better or for worse: hormone similarity and pair bond dynamics. <i>Netherlands Society of Behavioural Biology</i> . Soesterberg, the Netherlands. Ouyang, J.Q. , de Jong, M., Visser, M.E., & Spoelstra, K. Movement and activity of free living Great Tits, <i>Parus major</i> , under different spectra of artificial light. <i>International Conference on Artificial Light at Night</i> , Leicester, UK. Ouyang, J.Q. , Lendvai, A.Z., Dakin, R., Domalik, A.D., Fasanello, V.J., Vassallo, B.G., Haussmann, M.F., Moore, I.T., & Bonier, F. Weathering the storm: parental effort and

- stress hormones predict brood survival. *Society of Integrative and Comparative Biology*, Austin, TX, USA
- 2013 **Ouyang, J.Q.**, Individual differences in behavior, physiology, and fitness. *International Conference on Individual Differences*. Groningen, the Netherlands.
- Ouyang, J.Q.**, Hau, M. Stressed males abandon reproduction. *Society of Integrative and Comparative Biology*. San Francisco, USA
- 2012 **Ouyang, J.Q.**, Sharp, P., Quetting, M., Hau, M. Hormones as mediators of life-history trade-offs. *International Symposium on Avian Endocrinology*. Gifu, Japan
- 2011 **Ouyang, J.Q.**, Muturi, M., Quetting, M., Hau, M. 2011. Effects of corticosterone on reproductive decisions and parental behavior. *Society of Experimental Biology*. Glasgow, UK
- Ouyang, J. Q.**, Sharp, P. J., Dawson, A., Quetting, M., Hau, M., Hormone levels predict individual differences in reproductive success. *Society of Integrative and Comparative Biology*. Salt Lake City, USA
- 2007 **Ouyang, J.Q.**, Burley, N.T., Sex recognition of young by adult zebra fishes. *Animal Behavior Society*. Burlington, USA
- 2005 **Ouyang, J.Q.**, Hunt, G.L. Diets of adult and chick western gulls on Santa Barbara Island. *Southern California Research Conference*. Riverside, USA

SERVICE

Education and mentorship:

- 2016-present Nest-Watchers (designed nest box and feeders for Mt. Rose Elementary for students to observe and record bird abundance; monthly talks to grades 4-6), founder and coordinator
- 2011-present Video Tutor (development of biology teaching videos for high school biology and providing these videos to schools with no access to biology text books), Biology Team
- 2008-2016 Content editor and web design: Animal Behavior Society, Education Committee
Content contributor and editor: Animal Behavior Society social media pages
- 2008-2012 Graduate Student Mentorship Program, founder and board member, Princeton University
- 2009-2011 Community House graduate adviser, Princeton University
- 2007-2009 Graduate Student Representative for Ecology and Evolutionary Biology, Princeton University

Committees

- 2017-present Graduate awards committee, Ecology Evolution Conservation Biology, University of Nevada, Reno
- Fall 2018 Search committee, Faculty position in ecology, University of Nevada, Reno
- Fall 2017 Search committee, Faculty position in physiology, University of Nevada, Reno

Review activities:

Journals: *Animal Biology*, *Behavioral Ecology*, *Behavioral Ecology and Sociobiology*, *Behavioral Processes*, *Biology Letters*, *BMC Ecology*, *Comparative Biochemical Physiology*, *Conservation Physiology*, *Current Zoology*, *Current Opinions in Insect Science*, *Emu*, *Environmental Pollution*, *Evolution*, *Frontiers in Ecology and Evolution*, *Functional Ecology*, *General and Comparative Endocrinology*, *Global Change Biology*, *Hormones and Behavior*, *Integrative and Comparative Biology*, *Journal of Animal Ecology*, *Journal of Avian Biology*, *Journal of Applied Ecology*, *Journal of Experimental Biology*, *Journal of Experimental Zoology*, *Journal of Evolutionary Biology*, *Molecular Ecology*, *Nature Scientific Reports*, *Oecologia*,

Philosophical Transactions of the Royal Society B, Physiological and Biochemical Zoology, Proceedings of the Royal Society B, Rangeland Ecology & Management, Wilson Journal of Ornithology

Grant agencies: National Science Centre, Poland; Research Grants Council, Hong Kong; BARD - The US-Israel Agricultural Research & Development Fund, National Research Council OTKA, Hungary; National Science Foundation, USA

Editorial Board:

Ecology and Evolution

Frontiers in Ecology and Evolution (Social Evolution)

PROFESSIONAL MEMBERSHIPS

Society of Integrative and Comparative Biology (2010-present)

Animal Behavior Society (2006-present)

Society of Experimental Biology (2011-2012)

Sigma Xi (2008-2011)

LANGUAGE SKILLS

English: native fluency

German: conversational fluency

Mandarin Chinese: native fluency

Dutch: conversational fluency

French: business fluency

COLLABORATORS

Epigenetics and glucocorticoid responses (NSF OIA-1738594)

Bridgett von Holdt (Princeton University)

Kees van Oers (Netherlands Institute of Ecology)

Koen Verhoeven (Netherlands Institute of Ecology)

The role of glucocorticoids in mediating life history tradeoffs (NSF IOS-1145625)

Frances Bonier (Queen's University, Canada)

Mark Haussmann (Bucknell University, USA)

Ádám Lendvai (Virginia Tech, USA)

Ignacio Moore (Virginia Tech, USA)

Individual variation in hormones, behavior, and fitness (NSF DBI-1306025)

Michaela Hau (Max Planck Institute of Ornithology, Germany)

Peter Sharp (University of Edinburgh, UK)

Insulin regulation and life-history evolution (OTKA funded)

Zoltán Barta (University of Debrecen, Hungary)

Tökölyi Jácint (University of Debrecen, Hungary)

Ádám Lendvai (University of Debrecen, Hungary)

The effect of artificial light on stress physiology, neurobiology, and circadian rhythms (NIH R15ES030548)

Yong Zhang (University of Nevada, Reno)

Safer cities: stress physiology and reproduction in urbanized environments

Yue Hua Sun (Chinese Academy of Sciences, China)

Shu Ping Zhang (Mingzu University, China)