

DEVALEENA S. PRADHAN

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POSITIONS AND AFFILIATIONS

2018 – present **Assistant Professor**, Biological Sciences, Idaho State University, Pocatello, ID
2017 – 2018 **Lecturer**, Department of Biology, California State University, Dominguez Hills

EDUCATION

2014-2018 **Postdoctoral Scholar**, Department of Integrative Biology and Physiology,
University of California, Los Angeles
Project: **Local regulation of steroid signaling biomolecules in songbirds.**
Advisor: Dr. Barney A. Schlinger

2008-2014 **Ph.D., M.S.** (2012) Department of Biology, Georgia State University, Atlanta
Dissertation: **Role of social and endocrinological context in regulating life history
transitions among reproductive phenotypes in the bluebanded goby, *Lythrypnus dalli***
Advisor: Dr. Matthew S. Grober
Concentration: Neurobiology and Behavior

2006-2008 **M.S.**, Department of Zoology, University of British Columbia, Vancouver
Dissertation: **Rapid social regulation of 3 β -HSD activity in the song sparrow (*Melospiza
melodia*) brain**
Advisor: Dr. Kiran K. Soma
Concentration: Comparative Physiology

2000-2004 **B.S.**, Department of Biology University of British Columbia, Vancouver
Concentration: Animal Biology

PROFESSIONAL DEVELOPMENT WORKSHOPS ATTENDED

2018 Writing Across the Curriculum Early Adopters Workshop Series, CSUDH
2016 UCLA Entering Mentoring Training Program: 10-week workshop for development of mentoring
ethos focusing on leadership, mentoring and diversity sensitivity training
2015 Teaching Behavioral Neuroendocrinology, Society for Behavioral Neuroendocrinology
2014 TALX: Teaching and Learning Evolution (with an emphasis on non-majors and introductory
majors), Society for Integrative and Comparative Biology
2013 TALX: Teaching and Learning Roundtable: Vision and Change in Introductory Biology, Society for
Integrative and Comparative Biology
2013 Graduate Teaching Assistant Pedagogy Conference, Georgia State University
2013 Teaching Behavioral Neuroendocrinology, Society for Behavioral Neuroendocrinology
2009-2012 Instructional Methods Course, Georgia State University

RESEARCH GRANTS AND AWARDS

2018 College of Science and Engineering Mini Grant (\$2000)
2015-2016 Laboratory of Neuroendocrinology of the Brain Research Institute, Postdoctoral Training Grant,
NICHD (\$45000 USD)
2015 Dorothy M. Skinner Award, Society for Integrative and Comparative Biology (\$500 USD)
2014 Neurobiology and Behavior Graduate Fellowship, Georgia State University (\$500 USD)
2013 Georgia State University Dissertation Grant for research (\$1000 USD)
2012 Society for Behavioral Neuroendocrinology, Best Graduate Student Poster Award (\$100 USD)
2012-2014 Doctoral Dissertation Improvement Grant, NSF (\$15000 USD)
2012-2014 Brains & Behavior, Georgia State University (\$44000 USD)
2011 Georgia State University Foundation Scholarship for Academic Achievement (\$100 USD)

2010	Sigma Xi, Grants-in-Aid of Research (\$400 USD)
2009-2012	NSERC Post Graduate Scholarship (D3; \$63000 CDN)
2009-2012	Brains & Behavior, Georgia State University (\$5500 USD Supplement to NSERC D3)
2008	Center for Neuromics Award for Research, Georgia State University (\$1000 USD)
2006	McLean Fraser Memorial Award for Research, University of British Columbia (\$1000 CDN)

TRAVEL AWARDS

2013	Charlotte Mangum Student Support, Society for Integrative and Comparative Biology
2012	Travel Award, Biology Graduate Student Association, Georgia State University (\$500 USD)
2012	Charlotte Mangum Student Support, Society for Integrative and Comparative Biology
2011	Society for Behavioral Neuroendocrinology Travel Award (\$1000 USD)
2010	Charlotte Mangum Student Support, Society for Integrative and Comparative Biology
2008	Society for Behavioral Neuroendocrinology Travel Award (\$1000 USD)

LEADERSHIP AWARDS

2014	Who's Who Among Students in American Universities & Colleges, Georgia State University
2012	\$100 USD, Graduate Leadership Award, Department of Biology, Georgia State University
2011	\$100 USD, Graduate Leadership Award, Department of Biology, Georgia State University

TEACHING EXPERIENCE

Fall 2018	Primary Instructor , Idaho State University Human Systematic Physiology ^{U/G} ; Lecture in a classroom with Distance Learning technology
Fall 2017 Spring 2018	Lecturer , Dept. of Biology, California State University, Dominguez Hills Animal Physiology Lecture and Laboratory ^U Ecology Lecture and Laboratory ^U Biological Literature ^G
Spring 2015, Fall 2015, Fall 2016	Invited Lecturer , Institute for Society and Genetics/ Integrative Biology and Physiology ^U , Hormones and Behavior in Humans & Other Animals University of California, Los Angeles Topic: Introduction to Fish Endocrinology and Evolution of Sex change
Winter 2016	Invited Lecturer , Recreation Center, University of California, Los Angeles Fitness Leadership Program: Human Physiology
Spring 2014	Invited Lecturer , Dept. of Biology, Agnes Scott College (upper level animal behavior) Topic: Hormonal regulation of parenting behavior
Spring 2012, 2013 2014	Teaching Assistant , Dept. of Biology, Georgia State University Biology 3440/7440 Fundamentals of Evolution ^U <ul style="list-style-type: none"> Grade exams and assist instructor in preparing test questions
Fall 2013	Invited Lecturer , Georgia State University Biology 4241/Biology 6241 Hormones and Behavior ^{U/G} Topics: 1) Introduction to Hormones and 2) Aggression
Fall 2011, 2012, 2013	Teaching Assistant , Georgia State University Biology 4241/Biology 6241 Hormones and Behavior ^{U/G} <ul style="list-style-type: none"> Grade exams and assist instructor in preparing test questions
Fall 2012	Teaching Assistant , Georgia State University Biology 2108 Lab Introductory Biology for Majors, Honors students ^U <ul style="list-style-type: none"> Develop course with focus on scientific methods Supervise students to build a forest ecosystem in class and conduct independent experiments

- Focus on data interpretation, protocol development, preparing graphs, proposing and presenting experiments (written and oral), and writing manuscripts

2009-2012

Teaching Assistant, Georgia State University
Biology 2108 Lab Introductory Biology for Majors^U

- Present lab introduction, demonstrate lab procedures, and lead discussions
- Emphasize critical thinking and scientific methodology in experiment design and writing
- Design and grade tests, lab reports, exercises, and evaluate student presentations
- Assist in re-writing lab manual and implement new activities

Spring 2011

Teaching Assistant, Georgia State University
HON 3260 How We Think: Confluence of Technology, Philosophy, and Pedagogy^U

- Encourage student discussions on the process of thinking on a variety of topics with combination of web-based and in-class discussions
- Evaluate assignments and student discussions

Summer 2010

Lecturer, BRAIN Program^U, Atlanta, GA
Topics: 1) Neurons and Neurotransmitters, 2) Sensorimotor Systems, and 3) Hormones and Behavior

Spring 2010

Invited Lecturer, Georgia State University
Biology 2108 Introductory Biology for Majors^U
Topic: Co-evolution of Plants and Animals

2006-2008

Teaching Assistant, University of British Columbia
Biology 364: 3rd year undergraduate comparative physiology lab^U

- Assist lecturer with pre-lab presentation and demonstrate use of lab equipment
- Stimulate and encourage scientific discussion and critical thinking, with emphasis on experiment design
- Evaluate students' participation during lab and grade lab reports

STUDENTS MENTORED

2018-Present

Katrina White (Lab Assistant, ISU); Michael Ruvalcaba (CPI Undergrad, ISU), Elizabeth Givens (CPI Undergrad, ISU)

2014-2018

Megan Massa (PhD student, UCLA); Jeremy Covell (MS student, UCLA), Lara Ruby-Hovespian (MS student, UCLA), Rehan Karmali (MS student, UCLA), Devon Comito (MS student, UCLA), Joy Eaton (MS student, UCLA), *Callan Porter-Romero (Undergrad, UCLA), Danny Ma (Undergrad, UCLA), *Katherine Zhou (Undergrad, UCLA), Jessica Ding (Undergrad, UCLA), Raymond Van Ness (Undergrad, UCLA); Emily Miao (Undergrad, UCLA); Rice Zhang (Undergrad, UCLA); William Chen (High School), Mohak Kumar (Undergrad, UCLA); Fiona Roediger (Undergrad, UCLA); Laura Roudebush (Undergrad, UCLA)

2008-2014

Eric Schuppe (MS student, GSU), Kevin Thonkulpitak (Undergrad, GSU), Hannah Shin (Undergrad, GSU), Cory Grober (Lake Side High School/Undergrad. GCSU), Kimberly Connor (Undergrad, GSU), Elizabeth Pritchett (Undergrad, GSU), Madelyne Willis (Undergrad, GSU), Pierre Naude (Undergrad, UGA), Jason Crutcher (Undergrad, Rhodes College), Caitlin McCoyd (Undergrad, GSU)

2006-2008

*Loretta Lau (Undergrad, UBC), Pralle Kriengwatana (Undergrad, UBC), Roveena Sequiera (Undergrad, UBC)

* *Denotes best poster awardees*

GRADUATE COMMITTEES SERVED

Stacey Zamora

MS student

CSUDH, Biology

2018-present

WORK EXPERIENCE

- 2005-2006 **Research Assistant**, Department of Psychology, University of British Columbia
- Assist with field work in capturing songbirds, taking morphological and behavioral measurements and collecting tissue samples
 - Assist with and perform laboratory experiments
 - Take blood and tissue samples from songbirds in various stages of development
 - Maintenance of a captive zebra finch population
 - Order laboratory equipment
 - Teach and mentor techniques to laboratory students
 - Develop zebra finch and song sparrow colony protocols and standard operating procedures
- 2004-2005 **Research Assistant**, Centre for Aquaculture and Environmental Research, West Vancouver
- Perform necropsies (salmon and trout) and fertilizations
 - Collect blood and tissue samples for hormonal and genetic testing
 - Stain blood samples and conduct ploidy analysis using flow cytometer
 - Conduct morphological measurements (weight, length)
 - Perform seine netting/dip netting/trapping
 - Develop fish husbandry skills and handle fish in different life stages

LABORATORY RESEARCH SKILLS

- Animal behavior
 - Sampling techniques: *ad libitum*, group and focal individuals, time, sequence, discontinuous, instantaneous, scan
 - Types of behavior: parenting, aggression and territoriality, courtship, feeding
- RNA purification and extraction, cDNA synthesis, PCR, qPCR, primer design
- Biochemistry: *in vitro* analysis of tissue steroidogenesis using continuous and discontinuous assays
- Perform animal necropsies and collect blood and tissue samples from a variety of vertebrates at various life-history and developmental stages
- Conduct *in vitro* laboratory assays such as hormone extraction from plasma, water, and tissue (C18 Columns and using organic solvents such as dichloromethane, ether), enzyme immuno assays, radio immuno assays (using I-125, H-3), thin-layer chromatography, protein assays
- Use instruments such as vibratome, oscilloscope, stimulator, hand held electrodes, spectrophotometer, centrifuge, electrocardiograph, microscopes, Liquid Chromatography coupled with Mass Spectrometry machines (Agilent)
- Prepare agar plates, growth media, cell cultures and microbial assays
- Handle live vertebrates such as songbirds, frogs, salamanders, and fish
- Perform surgeries such as hormone implants (in birds and fish) and intracerebroventricular microinjections
- Develop zebra finch and song sparrow colony protocols and standard operating procedures
- Maintain and breed colonies of captive zebra finches
- Maintain aquaria of teleost fishes
- Biostatistical analysis programs (SPSS, JMP IN, Prism, Systat, Sigma Plot)
 - Simple regression, Multiple Hierarchical Regression, t-tests, analysis of variance, analysis of categorical variables, multivariate relationships, fitting general linear models, first order Markov's chain analyses for behavioral data
 - Proficient in Macintosh and Microsoft software application programs

FIELD RESEARCH SKILLS

- Field research at Wrigley Institute for Environmental Studies – field collection and lab study of teleost fishes
- Navigate in forested landscapes using maps and compass (British Columbia, Canada)
- Map territories of songbirds, capture birds by mist netting, and bird banding
- Collection of animal blood and tissue samples from various terrestrial habitats

- Conduct behavioral observations of songbirds and waterfowl in the field (group and focal, time, sequence, scan)
- Conduct vegetation surveys and inventories on terrestrial vertebrates
- Competent in identification of birds (by sight and call), mammals, amphibians, reptiles, insects, fungi, vegetation, and coral reef macro invertebrates of Pacific Northwest

CERTIFICATIONS

2003-Present	First Aid, CPR, AED
2009-2014	Oxygen Provider
2011	American Academy for Underwater Sciences
2009	Open water SCUBA

REVIEWER FOR THE FOLLOWING JOURNALS

Behavioral Brain Research, 2018 (1); *Integrative and Comparative Biology*, 2018 (1); *General and Comparative Endocrinology*, 2017, 2018 (2); *Hormones and Behavior*, 2010, 2015, 2018 (3); *Psychoneuroendocrinology*, 2012 (1); *PeerJ*, 2015 (1); *Animal Behavior*, 2014 (1); *Environmental Biology of Fishes*, 2014 (1)

SERVICES

2018	Academic Advisor , Biomedical Sciences Major, Idaho State University
2018	Undergraduate Committee , Idaho State University
2018	Panelist , Women in STEM Panel, Santa Monica College, Santa Monica
2018	Session Chair , Annual Student Research Day, California State University, Dominguez Hills
2016-2017	Grad Slam , Judge, University of California Los Angeles
2015-2017	Award Committee , Society for Integrative and Comparative Biology
2013-2017	Professional Development Committee , Society for Behavioral Neuroendocrinology
2014	Atlanta Science Festival at GSU , Discovery Day and Fusion Gallery volunteer
2014	Atlanta NETWORK Mentor , Center for Behavioral Neuroscience
2013	Local conference organizing committee member , Society for Behavioral Neuroendocrinology
2012-2013	Graduate Council Student Representative , Faculty of Art and Sciences, Georgia State University
2012-2013	Biology Ambassador , Brains & Behavior Program, Georgia State University
2012	Recruitment Panel , BRAIN Program, Center for Behavioral Neuroscience
2012	Student Presentations Judge , Society for Integrative and Comparative Biology, Division of Neurobiology, Charleston, South Carolina
2011	Student Panel , Graduate Student Funding, Brains & Behavior Program, Georgia State University
2011-2012	President , Biology Graduate Student Association, Georgia State University <ul style="list-style-type: none"> • Organized several new student activities such as Student Retreat, Graduate Student Seminar Series
2009-2010	Vice-President , Biology Graduate Student Association, Georgia State University
2010	Poster Judge , Psychology Undergraduate Research Conference, Georgia State University
2008	Poster Judge , Society for Behavioral Neuroendocrinology, Groningen, Netherlands
2003, 2004	Science Fair Judge (high schools) , Vancouver, BC

EDUCATION AND OUTREACH ACTIVITIES

2015-2016	School on Wheels, Los Angeles County Shelter <ul style="list-style-type: none"> • Provide weekly tutoring for homeless and foster-care children • Lead workshops on transformational teaching techniques intended to help tutors
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- 2015 **Wrigley Institute for Environmental Studies**, Invited Biologist for Mount Madonna School
- Lead and conducted an activity based exercise on “How do fish breathe under water?”
 - Introduction to social behavior of bluebanded gobies and workshop on watching and quantifying social behavior with a goal to understand experiment design and data interpretation
- 2014 **Atlanta Science Festival**, Discovery Day, Eureka Screen, Fusion Gallery (Artist Manager)
- 2009-2014 **Out-reach programs**, Center for Behavioral Neuroscience, Atlanta, GA
Brain Booth, Science at Hand Day, Fernbank Museum of Natural History, Atlanta
Chaperone and Booth Presentations, Neuroscience Expo, Zoo Atlanta (~ 400 students)
BRAIN Program, Poster Judge
Brain Awareness Campaign, classroom visits teaching students about the brain
Atlanta Science Bowl, reader
- 2009-2013 **Founder and Organizer**, Evolution Journal Club, Georgia State University, Atlanta, GA
- 2010-2012 **Georgia Aquarium**
Gallery Interpreter, Ocean Voyager, River Scout
Whale shark research, Behavioral observations and data collection
- 2005-2007 **Events Co-coordinator, Executive Committee**, Ankur Education Foundation, Vancouver, BC
- Plan and co-ordinate fund raising events
 - Design brochures
 - Manage Volunteer Program
- 2002-2005 **Nature House Host, Eco Ranger**, Stanley Park Ecology Society, Vancouver, BC
- Welcome visitors and share information about Stanley Park’s history, flora, and fauna
 - Walk on specified trails and interact with visitors to enhance their awareness and experience in the park
 - Conduct waterfowl counts and monitor nest boxes and heron colonies
 - Assist with training new volunteers, planning programs and events
 - Represent the society through educational display tables at community events
 - Create, maintain, and explain educational displays
 - Created a story and board-game called “Adventures of a Great Blue Heron”
- 2002,2003 **Nature House Host**, Greater Vancouver Regional District Parks, Burnaby, BC
- Assisted interpreters on duty: public programs, nature house
 - Cared for captive animals by feeding them and cleaning tanks
 - Participated in arts and crafts activities with children
 - Created a jigsaw puzzle called “Wetland Creatures”

MEMBERSHIPS

- 2006-present Society for Behavioral Neuroendocrinology
2009-present Society for Integrative and Comparative Biology
2011-2015 American Academy for Underwater Sciences
2009-2012 Sigma Xi
2013-2015 American Society for Ichthyologists and Herpetologists
2009-2015 Diver’s Alert Network
2010-2014 Georgia Aquarium
2007 International Congress for Neuroethology
2005-2008 Vancouver Aquarium
2004-2006 Stanley Park Ecology Society

MANUSCRIPTS IN REVIEW

Pradhan D.S., Ma C., Schlinger B.A., Soma K.K., and Ramenofsky M. Preparing to migrate: upregulation of androgen signaling and IGF-1 in muscles of a long-distance migrant. *Journal of Comparative Physiology A*, re-submitted Sept 10, 2018.

PUBLISHED MANUSCRIPTS

Rensel M.A., Ding J.A., **Pradhan D.S.**, and Schlinger B.A. 2018. 11 β -HSD Types 1 and 2 in the songbird brain. *Frontiers in Endocrinology*, 9: 86

Eaton J.[†], **Pradhan D.S.**[†], Barske J., Fusani L., Canoine V., Schlinger B.A. 2018. Differential expression of 3 β -HSD in the CNS of two passerine songbirds. *General and Comparative Endocrinology*, 256: 43-49

Schuppe E.R., **Pradhan D.S.**, Thonkulpitak K., Drilling C., Black M. and Grober M.S. 2017. Sex differences in neuromuscular androgen receptor expression and sociosexual behavior in a sex changing fish. *PLoS ONE* 12(5): e0177711.

Schuppe E.R., Solomon-Lane T.K., **Pradhan D.S.**, Thonkulpitak K., and Grober M.S. 2016. Ancestral androgenic differentiation pathways are repurposed during evolution of adult sexual plasticity. *Evolution and Development* 18(5-6): 285-296 (Cover art)

Comito, D., **Pradhan D. S.**, Karleen, J. B., and Schlinger, B.A. 2016. Region-specific rapid regulation of aromatase activity in zebra finch brain. *Journal of Neurochemistry* 136: 1177-1185

Solomon-Lane T.K., **Pradhan D.S.**, Willis M.C. and Grober M.S. 2015. Agonistic reciprocity is associated with reduced male reproductive success within harem social networks. *Proceedings of the Royal Society of London B*, 282(1181) (Cover art)

Pradhan D.S., Willis M.C., Thonkulpitak K., Solomon-Lane T.K., and Grober M.S. 2015. Simultaneous courtship and parenting in males and sex role reversal in females of the harem bluebanded gobies, *Lythrypnus dalli*. *Behaviour* 152: 917-940

Pradhan D.S., Solomon-Lane T.K., and Grober M.S. 2015. Contextual modulation of social and endocrine correlates of fitness: insights from the life history of a sex changing fish. *Frontiers in Neuroscience* 8: 432

Pradhan D.S., Solomon-Lane T.K., and Grober M.S. 2014. Water-borne and tissue endocrine profiles of an alternative male reproductive phenotype in the sex changing fish, *Lythrypnus dalli*. *Copeia*, 4: 716-724

Solomon-Lane T.K., Willis M. C., **Pradhan D.S.**, and Grober M.S. 2014. The reproductive correlates of within status agonistic behavioral variations in a stable social hierarchy. *Behaviour*, 151: 1367-1387

Pradhan D.S., Solomon-Lane T.K., Willis M.C., and Grober M.S. 2014. A mechanism for rapid neurosteroidal regulation of parenting behaviour. *Proceedings of the Royal Society of London, B*, 281 (1786)

Pradhan D.S., Connor K.R., Pritchett E.M., and Grober M.S. 2014. Contextual modulation of androgen effects on agonistic interactions. *Hormones and Behavior*, 65(1): 47-56 (Cover art)

Pradhan D.S. and Soma K.K. 2012. Regulation of 3 β -HSD activity in the songbird brain. *Journal of Ornithology*, 153, Supplement 1: 227-234

Pradhan D.S.[†], Lau, L.Y.M.[†], Schmidt K.L., and Soma, K.K. 2010. 3 β -HSD activity in songbird brain: Subcellular localization and rapid regulation by estradiol. *Journal of Neurochemistry*, 115: 667-675

Pradhan D. S., Newman A.E.M., Wacker D.W., Wingfield J.C., Schlinger B.A., and Soma K.K. 2010. Aggressive interactions rapidly increase androgen synthesis in the brain during the non-breeding season. *Hormones and Behavior*, 57(4): 381-389 (Cover art)

Schmidt K.L., **Pradhan D.S.**, Shah A.H., Charlier T. D., Chin E. H., and Soma K.K. 2008. Neurosteroids, Immunosteroids, and the Balkanization of Endocrinology. *General and Comparative Endocrinology* 157: 266-274

Newman A.E.M., **Pradhan D.S.**, and Soma K. K. 2008. DHEA and corticosterone are regulated by season and acute stress in a wild songbird: jugular versus brachial plasma. *Endocrinology* 149(5): 2537-2545

Schlinger B.A., **Pradhan D.S.**, and Soma K.K. 2008. 3 β -HSD activates DHEA in the songbird brain. *Neurochemistry International* 52: 611-620

Pradhan D.S., Yu Y., and Soma K.K. 2008. Rapid estrogen regulation of DHEA metabolism in the male and female songbird brain. *Journal of Neurochemistry* 104: 244-253

[†]Denotes co-first authors

INVITED LECTURES

Pradhan D.S., Van Ness, R., Ma C., Hamden, J.E., Jalabert, C., Soma, K.K. Schlinger, B.A., Ramenofsky, M. Glucocorticoid signaling in skeletal muscle of a migratory songbird. Contributed Talks Symposium. Society for Behavioral Neuroendocrinology, Long Beach, California (June 2017)

Pradhan D.S. Finding your “inner steroids”. Fitness education workshop for personal fitness trainers. University of California, Riverside Recreation Center, UC Fitness conference (June 2017)

Pradhan D.S. Preparing to migrate: regulation of androgen and glucocorticoid signaling in muscles of a migratory Songbird. Laboratory of Neuroendocrinology, Brown Bag Series (April 2017)

Pradhan D.S. From sexy tissues to sex change: mechanisms of plasticity in Bluebanded gobies, *Lythrypnus dalli*. Biology Colloquium, California State University, Northridge (Feb 2017)

Pradhan D.S., Ma C., Schlinger B.A., Soma K.K., Ramenofsky M. Androgen signaling in the muscle of a migratory songbird. Society for Integrative and Comparative Biology, New Orleans (Jan 2017)

Pradhan D.S. Preparing for the long haul: androgen signaling in the muscle of a migratory songbird. Department of Ecology and Evolutionary Biology, University of California, Los Angeles (Nov 2016)

Pradhan D.S. and Schlinger B.A. Dynamic properties of estrogen synthesis and action in the zebra finch brain. Symposium Entitled “Rapid effects of neuroestrogens on behavior”. International Symposium for Avian Endocrinology, Niagara on the Lake, Ontario (October 2016)

Pradhan D.S. Mechanisms of local androgen signaling in birds and fish: what other vertebrates’ muscles can teach us about our own. Laboratory of Neuroendocrinology, Brown Bag Series (May 2016)

Guevara S.E. and **Pradhan D.S.** Your ability to “inner” agility: discover it and teach it. Featured workshop at the Annual UC Fitness Conference, University of California, Los Angeles (May 2016)

Pradhan D.S. Integration of social context and fitness in the behavioral neuroendocrinology of the bluebanded goby, *Lythrypnus dalli*. Biology Seminar Series, Department Biology, Loyola Marymount University, Los Angeles (April 2016)

Pradhan D.S. Parenting on steroids: lessons from a sex changing fish. Los Angeles Nerd Nite, Busby’s East Bar (October 2015)

Pradhan D.S. Integration of social context and fitness in the behavioral neuroendocrinology of the bluebanded goby, *Lythrypnus dalli*. EcoEvoPub Series, Department of Ecology and Evolutionary Biology, University of California, Los Angeles (April 2015)

Pradhan D.S., Connor K.R., Pritchett E.M., Grober M.S. Permissively loaded: confluence of social context and androgen treatment in a sex changing fish. Department of Comparative Endocrinology Finalist, Society for Integrative and Comparative Biology, West Palm Beach, Florida (January 2015)

Pradhan D.S. Keep it local: rapid regulation of brain steroidogenic enzymes. Birdsong Affinity Group, University of California, Los Angeles (December 2014)

Solomon-Lane T.K., **Pradhan D.S.**, Williams M.M., Willis M.C., Rogers L., and Grober M.S. The central role of the middle-ranking female for behavior and reproductive success in the bluebanded goby (*Lythrypnus dalli*) social groups. Animal Behavior Conference, University of Indiana (April 2014)

Pradhan D.S., Solomon-Lane T.K., Willis M.C., and Grober M.S. A mechanism for rapid neurosteroidal regulation of parenting behavior. South East Neuroscience Conference (April 2014); Department of Biology, Agnes Scott College (March 2014); Undergraduate Seminar Series (September 2013), Session on Neuroendocrinology, Society for Integrative and Comparative Biology, San Francisco, California (January 2013); Biology Graduate Student Seminar Series, Department of Biology, Georgia State University (December 2012)

Pradhan D.S., Willis M.C., Solomon-Lane T.K., Crutcher J.B., Thonkulpitak, K. and Grober, M.S. Female courtship solicitation is associated with reproductive success in Bluebanded Gobies. Animal Behavior Finalist Session, Society for Integrative and Comparative Biology, Austin, Texas (January 2014)

Pradhan D.S. and Grober M.S. Role of endocrinological and social contexts in regulating life history transitions among reproductive phenotypes in the Bluebanded Goby, *Lythrypnus dalli*. Neuroscience Institute Breakfast and Lecture Series, Georgia State University (October 2013)

Pradhan D.S. Pre, active, and post: taking learning beyond the classroom. Session on "Interactive Models for Critical Thinking", GSU Graduate Teaching Assistant Pedagogy Conference (April 2013)

Solomon-Lane T.K., **Pradhan D.S.**, Willis M.C., Crutcher J.B., Grober M.S. Playing the margins: the fitness consequences of individual behavioral variation in the bluebanded goby, *Lythrypnus dalli*. Society for Integrative and Comparative Biology, San Francisco, California (January 2013)

Pradhan D.S., Solomon-Lane T.K., Willis M.C., and Grober M.S. Anabolic Steroids: from roid rage to devoted dads. Brains & Behavior Annual Retreat, Georgia State University (April 2012); Department of Biology, Agnes Scott College (October 2012)

Pradhan D.S. and Grober M.S. Pain and Pleasure in the Pacific: integration of science diving and biochemistry to understand the life history of Bluebanded Gobies. American Academy of Underwater Sciences Annual Meeting, Athens, GA (May 2012)

Pradhan D.S., Connor K.R., Martin E.D., Willis M.C., and Grober M.S. Context is critical for understanding the relationship between androgens and aggressive behavior. Research in Progress Graduate Seminar Series, Department of Biology, East Carolina University, North Carolina (Oct. 2011); Biology Graduate Student Seminar Series, Department of Biology, Georgia State University (March 2012)

Pradhan D.S., Solomon-Lane T.K., Willis M.C., and Grober M.S. Neural androgens regulate paternal behavior in a polygamous sex changing fish. Session on Parental Care and Parental Investment. Society for Integrative and Comparative Biology, Charleston, South Carolina (January 2012)

Pradhan D.S., Solomon-Lane T.K., and Grober M. S. Local and systemic steroid levels in alternative reproductive males of the sex changing fish. Neuroscience Institute Breakfast and Lecture Series, Georgia State University (March 2011)

Pradhan D.S. and Grober M.S. Inhibition of 11 β -HSD reduces 11KT levels in *Lythrypnus dalli*. Center for Behavioral Neuroscience Retreat, Alpharetta, GA (September 2009)

Pradhan D.S. and Soma K.K. Aggression and local Androgens: Neurosteroid metabolism rapidly increases during social encounters in the non-breeding season. Annual Zoology Graduate Student Symposium, University of British Columbia, Vancouver, BC (April 2008); Pacific Northwest Chapters Meeting for the Society for Neuroscience, Vancouver, BC (April 2008); Invited Lecture Series, Oglethorpe University, Chamblee, GA (September 2008)

Pradhan D.S. and Soma K.K. Rapid estrogen regulation of neural 3 β -HSD in songbirds. University of British Columbia, The Retreat, Brackendale, BC (Nov. 2006); Department of Zoology Student Seminar Series, University of British Columbia, Vancouver, BC (Jan. 2007); Department of Psychology, University of British Columbia, Vancouver, BC (February 2007)

Soma K.K. Schmidt K.L., Chin E.H., Newman A.E.M., **Pradhan D.S.** Local steroid synthesis: examples and

implications. NSERC/NSF/ESF Meeting Abstracts, University of Glasgow, Scotland (November 2006)

POSTER ABSTRACTS

Hovsepian-Ruby, L.A., **Pradhan D.S.**, Roediger, F.M., and Schlinger, B.A. Phosphoregulation of Aromatase in the zebra finch brain. Society for Behavioral Neuroendocrinology, Long Beach, California (June 2017)

Pradhan D.S. Ma C., Schlinger B.S., Soma K.K., Ramenofsky M. Preparing for migration: androgens and flight muscle hypertrophy in White-crowned sparrows (*Zonotrichia l. gambelii*). Society for Behavioral Neuroendocrinology, Montreal, Quebec (August 2016)

Comito D., **Pradhan D.S.**, Karleen B.M., Ma D., and Schlinger B.A. Region-specific characterization of rapid Aromatase regulation in the zebra finch brain, Society for Behavioral Neuroendocrinology, Monterey Bay, California (June 2015)

Ma D., **Pradhan D.S.**, Comito D., Porter-Romero C., Zhou K., and Schlinger, B.S. Effect of cofactor concentrations on aromatase activity in the zebra finch brain. Science Poster Day, UCA (May 2015)

Zhou K., Porter-Romero C., **Pradhan D.S.**, Ding J.A., Kosarussavadi S., Schlinger B.A. Sex differences in parental investment during development of the zebra finch, *Taenopygia guttata* (May 2015) *Best undergraduate Student Poster Award Recipients.*

Schuppe E.R., Solomon-Lane T.K., **Pradhan D.S.**, Thonkulpitak, K., Williams, M.M., Thomas, A., Lockhart, C., Millikin, A., and Grober, M.S. Organization of dimorphic genitalia: new insights into the evolution of sexual plasticity. Society for Integrative and Comparative Biology, West Palm Beach, Florida (January 2015)

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