

P2 Poster Session 2

- P2.1 (DAB)** GRILLIOT, Matthew E., MENDONCA, Mary T., BURNETT, Stephen C.; Sexual Dimorphism in the Ultrasonic Signals of Big Brown Bats in the Mating Season
- P2.2** SCHAD, KM, FAUTH, JE; Tree call of treefrogs: more than just rain calls
- P2.3** ZANGHI, M. R., POISSON, S., MOOSMAN, P. R. Jr., CRATSLEY, C. K.; Morphology and flash patterns as potential predictors of flash duration in *Photinus* fireflies (Coleoptera: Lampyridae).
- P2.4** BASINSKY, G., ROSADO, M., MOOSMAN, P. R. Jr., CRATSLEY, C. K.; *Photinus ignitus* male courtship behavior and *Photuris* predation in response to virtual fireflies.
- P2.5 (DNB)** FARRAR, D.M., MONROY, J.A., CARTER, M.E., COVEY, E., CASSEDAY, J. H.; Mother-infant communication in the big brown bat, *Eptesicus fuscus*
- P2.6 (DCPB)** JURY, Steven H., BETKA, Marlies, LINELY, Tim, HARRIS, H.W.; The interaction of low pH, aluminum, and calcium on olfaction of Atlantic salmon (*Salmo salar*)
- P2.7 (DAB)** DANIEL, Peter/C; Do Lobsters Increase Detection of Odorants by Waving Antennules? A 3D Kinematic Analysis
- P2.8A** SAFER, A.B., GRACE, M.S.; Pits within pits: Are nanopit arrays functional components of snake infrared imaging systems?
- P2.8** TUTHILL, J.C., JOHNSEN, S.; **Polarization vision in crayfish enhances motion detection**
- P2.9 (DCE)** LONG, J.A., HORTON, B.M.; Bringing Ornithology to K-12 Classrooms
- P2.10 (DCPB)** SURMACZ, Cynthia A.; Animal Locomotion: Bringing Structure-Function Relationships to Life in the Introductory Biology Lab
- P2.11** SHETLAR, R; The effect of active learning strategies in undergraduate biology education
- P2.12 (DEDB)** WISE, S. B.; Presenting a summer symposium on teaching evolution
- P2.13 (DIZ)** LOVELY, E.C., KONDRICK, L.C.; Evolving Student Attitudes: Teaching Evolution in Arkansas.
- P2.14 (DEDB)** BOLKER, J.A., GANNETT, C.; Using fictional species to teach real science
- P2.15** IKEMIRE, Montana, REPENNING, Peter, TIFFANY, III, William J.; An Integrated Approach to Teaching Field Ecology
- P2.16 (DEE)** WALTERS, LJ; Combining Research and Service: An Example of a Very Successful Educators Workshop on Coral Reef Ecology and Restoration
- P2.17 (DIZ)** DIAZ, M.C., THACKER, R.W., COLLIN, R.; Taxonomy and Ecology of Caribbean Sponges: Effective Training for New Investigators
- P2.25 (DIZ)** STELLA, M.S., KIER, W.M.; Specialization for fast contraction in the tentacle muscle of the cuttlefish, *Sepia officinalis*
- P2.26** SITVARIN, Michael I, IYENGAR, Erika V, CATALDO, Marianne; Functional morphology of flexible periostracal hairs in the marine snail *Trichotropis cancellata*
- P2.27 (DEDB)** PEREZ-REYES, O., HERNANDEZ-GARCIA, P., ROSA-MOLINAR, E.; The motor neurons innervating the pereopods of "*Atya lanipes*" and "*A. scabra*"
- P2.28** HORWITH, M.J., MERZ, R.A.; Sediment Size and Interspecies Interaction affect Burrowing Times of *Emerita talpoida* in Swash
- P2.29 (DCPB)** NEWEL, M.S., BOURNE, G.B.; Sediment grain size profiles of sand collars deposited in the lab and the field by the naticid gastropod *Euspira lewisii*
- P2.30** KREFT, J. M.*, MCCANDLISH, D. M., REYNOLDS, L. W., MERZ, R. A.; Trees pumping iron: Seasonal changes in material properties of branch wood in Sugar Maple (*Acer saccharum*) and Bur Oak (*Quercus macrocarpa*)
- P2.31 (DIZ)** KINGSLEY, Roni J., WONG, Eric, FROELICH, Jenna, MARKS, Carolyn; Spine Formation in Deep-Sea Hydrothermal Vent Aplacophoran Molluscs
- P2.32 (DIZ)** MARTIN, Gary G.; The peritrophic membrane of the ridgeback prawn, *Sicyonia ingentis*
- P2.33 (DAB)** MACESIC, L. J.; Morphometrics and behavioral function of the electric organs of Bancrofts numbfish, *Narcine bancroftii*
- P2.34 (DVM)** MEYERS, R.A.*, SCHMUTZ, D., GOLLER, F.; Histochemical Analysis of Songbird Syringeal Muscles
- P2.35 (DSEB)** GANSER, Lisa R.; Sex differences in the hindbrain of the cane toad, *Bufo marinus*
- P2.36 (DVM)** DEVAERE, S, JANSEN, G, ADRIAENS, D, WEEKERS, PHH; Clariid catfish: an extreme case of convergent evolution on a low taxonomical level
- P2.37 (DVM)** DRABEK, C.M.; Getting to the heart of the matter: Morphological aspects of the heart and aorta of northern elephant seal weanlings
- P2.38 (DIZ)** BARTOL, I.K., STEWART, W.J.; Pulsed jet dynamics of squid during ontogeny
- P2.39 (DEE)** VAN TRUMP, W. J., PATEK, S. N., KOEHL, M. A. R.; The California spiny lobsters runny nose.
- P2.40 (DVM)** POLK, J.D., LIEBERMAN, D.E., BETZ, A.E., DEMES, B.; Validation of a non-invasive model for predicting long bone loading
- P2.41 (DVM)** PATEL, BIREN, A., CARLSON, KRISTIAN, J.; Subchondral bone mineral density in the

P2.18 FRIED, Glenn , GROSSER, Benjamin, MAU, Christopher, BLASI, Laura; Documenting Xyloplax Using a Virtual Scanning Electron Microscope

P2.19 REIDA, M.K., JANZEN, F.J.; The role of incubation temperature in inducing external abnormalities observed in neonatal painted turtles (*Chrysemys picta*) derived from natural nests

P2.19A BELANGER, C.A., DZIALOWSKI, E.M.; Morphological Changes of the Avian Ductus Arteriosi During Hatching

P2.20 (*DDCB*) COPELAND, J.M., DZIALOWSKI, E.M.; Effects of hypoxic incubation on reactivity and morphology of the ductus arteriosi in near-term chicken embryos

P2.21 SEPULVEDA, C. A., WEGNER, N. C., AALBERS, S. A., BERNAL, D.; Gut evacuation rates in free-swimming juvenile mako sharks *Isurus oxyrinchus*

P2.22 JAECKLE, W.B., BALSER, E.J.; Nephridial function in larvae of asteroid echinoderms

P2.23 (*DIZ*) WATERS, J.S., SOCHA, J.J.; Mechanics of tracheal compression in the bessbug, *Popilius disjunctus*

P2.24 (*DSEB*) SWIDERSKI, DL, MILLER, DJ, SHEETS, HD, RAPHAEL, Y; Comparing spirals: Geometric morphometrics with a twist

distal radius reflects habitual use of the forelimb in sloths and anteaters (Order Xenarthra)

P2.42A (*DVM*) RIDGELY, RC, WITMER, LM; Braincase morphology in tyrannosaurs using computed tomography and 3D visualization, with special reference to the cerebral endocast and ear region

P2.42 HERNANDEZ, E., O'CONNOR, P.M., FAJARDO, R.J.; MicroCT Analysis of the Axial Postcranial Skeleton in Birds: Comparison of Centrum Bone Structure in Two Anatids with Different Pneumatic States

P2.43 (*DVM*) CIRILO, S.R.*, HILL, S., ESPINOZA, N.R., BLOB, R.W.; Limb Bone Strain Rates in Divergent Locomotor Modes: Turtles and Frogs Compared

P2.44 (*DVM*) BUTLER, MA, YAP, JT, SCALES, JA; Functional and anatomical imaging of iguana head using coregistered microPET/microCT

P2.47 (*DVM*) PETERS, S.E., CLARK, D.L.; Comparison of forelimb muscle properties in two species of anurans: continuity of muscle function in amplexus

P2.48 SEGRE, P.S., DIAL, K.P.; Half a Wing in Motion: the ontogeny and wing kinematics of WAIR in chukars

P2.49 (*DCPB*) SWALLOW, J.G., RIBAK, G., WILKINSON, G.S.; Comparative Analysis of Wing Beat Frequency and Morphology in Stalk-Eyed Flies

P2.50 (*DVM*) RANOLA, J.O.*, TOBALSKE, B.W., WARRICK, D.R., POWERS, D.R.; Circulation in the Wake of the Flying Hummingbird: Effects of Thresholding and Vortex Decay

P2.51 MIKLASZ, K.A., SOCHA, J.J.; Mathematical modeling of flying snake kinematics during gliding locomotion

- P2.52 (DVM)** LOCHETTO, S.M.*, JAYNE, B.C.; Size affects the gap-bridging performance of brown tree snakes
- P2.53 (DVM)** HEARN, J.W.D.*, TOBALSKE, B.W., WARRICK, D.R.; Contribution of Body Lift to the Aerodynamics of Flap-Bounding
- P2.55 (DVM)** PORTER, Marianne, KASBATI, Sabreena; Life without spiracles: the contribution of spiracles to shark ventilation
- P2.57 (DVM)** MILLER, T., CARRENO, C. A., FERRY-GRAHAM, L. A., O'NEILL, M. W., GIBB, A. C.; Performance ramifications of premaxillary protrusion: buccal pressure and capture success in small mouth bass with immobile premaxillae
- P2.58** HUSTON, MM, ASHLEY-ROSS, MA; Feeding Kinematics of the Grotto Salamander *Eurycea spelaea*
- P2.59 (DVM)** GRUBICH, Justin R., RICE, Aaron N., WESTNEAT, Mark W.; Functional Morphology of Bite Mechanics in the Great Barracuda, *Sphyrna barracuda* (Walbaum 1792)
- P2.60 (DVM)** GERRY, SP, DEAN, MN, WILGA, CD; Bilateral jaw muscle activity in elasmobranchs
- P2.61 (DCPB)** BELTRÁN, JL, KAJIURA, SM, KOOB, TJ, PORTER, ME, SUMMERS, AP; The diversity of elasmobranch cartilage
- P2.62 (DVM)** AZIZI, E., LANDBERG, T., WASSERSUG, R.J.; Trunk mechanics during tadpole locomotion
- P2.63 (DVM)** SCHRANK, G. D., BLOB, R. W., SCHOENFUSS, H. L.; Ontogenetic changes in red and white muscle fiber distribution in two species of waterfall climbing Hawaiian fishes
- P2.64 (DVM)** RYBCZYNSKI, Natalia, FISH, F, MCLELLAN, WA, PABST, DA; THE BEAVER TAIL: FUNCTION IN SWIMMING AND CONNECTIVE-TISSUE STRUCTURE
- P2.65 (DVM)** RODEBAUGH, Gregory P, LIEW, Chun Wai, LONG, John H, ROOT, Robert G; Lift and thrust in carangiform swimming: An integrated model of a pumpkinseed sunfish (*Lepomis gibbosus*)
- P2.66 (DVM)** O'NEILL, M. W., GIBB, A. C.; Selective chemical denervation of pectoral fin muscles using botulinum toxin
- P2.67 (DVM)** FLAMMANG, B.E.; Comparative anatomy of intrinsic caudal musculature in fishes
- P2.68** CULBERTSON, Bryan, DOMINGUEZ, Mike, KOKOSKA, Mark, LIEW, Chun Wai; Optimizing Fish Swimming Models Using A Novel Genetic Algorithm
- P2.69 (DVM)** MAIE, T.*, SCHOENFUSS, H.L., BLOB, R.W.; ONTOGENETIC SCALING OF BODY PROPORTIONS IN WATERFALL-CLIMBING FISHES FROM DOMINICA AND HAWAII: IMPLICATIONS FOR LOCOMOTOR FUNCTION
- P2.79 (DVM)** YOUNG, JW, PATEL, BA; Do differences in body mass distribution determine symmetrical gait kinematics?
- P2.80 (DVM)** NORDGREN, A, BUTCHER, MT, BERTRAM, JEA; External power production in walking and running under simulated gravity changes: correlation with metabolic cost
- P2.81 (DVM)** STEVENS, NJ, WRIGHT, KA, COVERT, HH, NADLER, T; A comparison of vertebral kinematics of Hatinh and Delacours langurs in the Cuc Phuong National Park of Vietnam
- P2.82 (DVM)** O'NEILL, M.C., SCHMITT, D.; Joint work and power associated with stance versus swing phase in running ring-tailed lemurs
- P2.83 (DVM)** MCFARLAND, J.*, MEYERS, R.A.; Anatomy and Histochemistry of Hindlimb Flight Posture in Shorebirds
- P2.84 (DVM)** HNOT, Melanie, GILLIS, Gary B.; EMG Activity in Hindlimb Flexor Muscles During Swimming in the Toad, *Bufo marinus*
- P2.85** GREGORY, M L, CLAUSSEN, D L; Scaling of speed with body mass in terrestrial chelonians
- P2.86 (DEDB)** HEYLAND, Andreas, MOROZ, Leonid/L; A Search for Pro-Neuronal Genes: Understanding basal animals without brains
- P2.87** MARLOW, H., MATUS, D.Q., MARTINDALE, M.Q.; Specification and patterning of the cnidarian nervous system in *Nematostella vectensis*
- P2.88 (DIZ)** SCHULZE, A, RICE, M.E.; Neurogenesis and Myogenesis in Sipunculan Worms
- P2.89** CLARK, Stephanie, GRUNOW, Eric, SIMANTON, Wendy, BROWNE, William, HASLEY, Andrew, HILL, Brandon; Divergent Axon Growth Patterns among Arthropods coincide with Changes in Netrin Expression
- P2.90** BRAUBACH, O.R., DICKINSON, A.J.G., EVANS, C.E., CROLL, R.P.; Neural Control of the Velum in Larvae of the Gastropod, *Ilyanassa obsoleta*
- P2.91 (DNB)** EARLY, M.D., GOAD, A.J., PIRTLE, T.J.; The Distribution of FMRF-amide, Serotonin, and Small Cardioactive Peptide b in the Cerata of *Hermisenda crassicornis* and *Flabellina trilineata*
- P2.92 (DNB)** GOAD, A.J., EARLY, M.D., SZYMIK, B.G., PIRTLE, T.J.; Kinematic Analysis of *Hermisenda* Cerata Movement During Defensive Behavior
- P2.93 (DNB)** MCDOLE, T.S.*, MURRAY, J.A., CAIN, S.D.; Neuronal Control of Mucociliary Interactions in *Tritonia diomedea*
- P2.94 (DIZ)** KEMPF, S.C.; SEROTONERGIC CIRCUITRY IN THE NERVOUS SYSTEM OF A BIVALVE VELIGER LARVA
- P2.95 (DIZ)** HOCHBERG, R; Immunohistochemistry and

P2.70 (DVM) KWONG, G.W., WYNEKEN, J.; Comparative and developmental morphology of three marine taxa, *Caretta caretta*, *Spheniscus demersus*, and *Eudyptula minor* - A look at embryonic flipper formation

P2.71 (DNB) SZYMIK, Brett G, SATTERLIE, Richard A; The Kinematics of Pteropod (*Clione limacina*) Swimming from Tethered and Freely Swimming Animals

P2.72 (DEE) GERALD, Gary W., KOTCHER, John E., STONE, Caitlin, CLAUSSEN, Dennis L.; Effects of incline and substrate on the costs of locomotion in male fiddler crabs (*Uca pugilator*)

P2.72A (DVM) SCHUMACHER, J, COMBIE, K, ENGEL, V, IRVING, K, LIVINGSTON, N, KOOB, T; Testing an Adaptation Hypothesis for Early Vertebrates with Biomimetic Robots

P2.73 FARKE, A.A.; Morphology and Variation of the Frontal Sinuses in Hartebeest (Mammalia: Bovidae)

P2.74 (DVM) WILLIAMS, SH, VINYARD, CJ, WALL, CE, HYLANDER, WL; Experimental observations on symphyseal fusion in selenodont artiodactyls

P2.75 ROSA, D., STINER, E., BOLNET, C.; Preliminary Results on the Phylogenetic Position of an East African Horseshoe Bat (*Rhinolophus*) from Mozambique

P2.76 WASHINGTON, RL, ECKHARDT, A, ROSS, CF; Scaling of chewing frequency in primates

P2.77 (DEE) WRIGHT, B.W., STEVENS, N.J., ULIBARRI, L., O'BRIEN, J., COVERT, H.H., NADLER, T.; Relationships between leaf toughness and food processing behavior among four Vietnam leaf monkeys

P2.78 (DCPB) MATHIASSEN, C.C., GILMAN, C.A., WOLF, B.O.; Portable ultrasonography - developing a non-invasive technique to quantify reproductive effort in small mammals

3-D reconstruction of the cerebral ganglion in the rotifer *Asplanchna brightwelli*

P2.96 (DIZ) TSIE, M, LINDSAY, S; Immuno-localization of a putative chemosensory G-protein alpha-subunit in a spionid polychaete

P2.97 (DNB) COOPER, R.L., BHATT, D., BHATT, D., VIELE, K; Pre- & Post-synaptic Actions of Kainate: Negative Feedback at Glutamate-ergic Nerve Terminals in *Drosophila*

P2.98 (DNB) COOPER, A.-S., MOFFET, S., COOPER, R.L.; NERVE TERMINAL PRUNING IN CONJUNCTION WITH MUSCLE ATROPHY BY DISUSE & UNLOADING IN CRAYFISH

P2.99 UBUKA, T, BENTLEY, GE; Differential Regulation of Receptor Subtypes in The Central Nervous System of European Starlings

P2.100 DOWNER, Natalie, LECKY, Danielle, MYRTHIL, Marie, NDUKA, Ebere, CATAPANE, Edward; Effects of Acute Temperature Stress on the Distribution of Biogenic Amines in the American Oyster, *Crassostrea virginica*

P2.101 (DCPB) HUDSON, Terry-Ann, MCADORY, Brenda, TOWNSEL, James G.; Localization of Semaphorin 2a in the Central Nervous System (CNS) of *Limulus polyphemus* by *in situ* Hybridization

P2.102 (DCE) DOUD, Andrea, BOYD, Sunny K.; Location of AVT Target Neurons in the Amphibian Hindbrain

P2.103 (DAB) SANFORD, K.H., BREUNER, C.W., HAHN, T.P., PRAVOSUDOV, V.V.; Relative hippocampal volume is affected by age in migratory Mountain White-Crowned Sparrows

P2.105 (DNB) RABURN, B.L., MOORE, P.A.; Serotonin and Agonistic Interactions in *O. rusticus*

- P2.106** (DNB) WOLF, Mary C., MOORE, Paul A.; Neural and behavioral responses to complex odor stimuli using crayfish as a model system
- P2.107** ESPINOZA, S.Y.*, BREEN, A., VARGHESE, N., FAULKES, Z.; Loss of escape-related neurons in spiny lobster (*Panulirus argus*)
- P2.108** (DNB) HUBER, A.S., YAGER, D. D.; Inhibition Shapes the Responses of an Auditory Interneuron of the Praying Mantis
- P2.109** (DNB) JOHNSON, J. I., MORRIS, J. A. , FOBBS JR., A. J.; Shared Characters of Cerebral Isocortex in Cetacean Bottlenosed Dolphins, *Tursiops truncatus*, and Artiodactyl Domestic Sheep, *Ovis aries*.
- P2.110** FREMONT, RT, HALE, ME; Building Neural Networks: The Response of the Zebrafish Startle Circuit to Ectopic Expression of Mauthner Cells
- P2.111** (DCE) TRUMAN, J/W, HENRY, L, CHEA, H, RIDDIFORD, L/M; Effects of Juvenile Hormone Mimics on the Embryonic Development of the Basal Insect, *Thermobia domestica*
- P2.112** (DCE) ZHENG, J, CHOI, C.Y., WATSON, R.D.; Molecular Cloning of cDNAs Encoding Two Crustacean Hyperglycemic Hormone Isoforms From the Blue Crab (*Callinectes sapidus*)
- P2.113** (DCE) NAMWONG, W., WITHYACHUMNARNKUL, B., CHANG, S.A., CHANG, E.S.; Characterization of the Molt Cycle in Relation to Hemolymph Ecdysteroid Levels in the Ridgeback Shrimp (*Sicyonia ingentis*)
- P2.114** (DCE) NAKATSUJI, T.*, SONOBE, H., WATSON, R.D.; Molt-Inhibiting Hormone-Mediated Regulation of Ecdysteroid Synthesis by Y-organs of the American Crayfish (*Procambarus clarkii*): Involvement of Cyclic GMP and Cyclic Nucleotide Phosphodiesterase
- P2.115** (DCE) LILLEY, T. R., MEDLER, S., MYKLES, D. L.; Lobster myocyte enhancing factor (Mef2): cloning and tissue expression in response to elevated ecdysteroid
- P2.116** (DCE) GOMEZ, Andrea M., LEE, K.J., CHANG, E.S., MYKLES, D.L.; Investigating the Role of Nitric Oxide in the Signaling Pathway Regulating Ecdysteroid Secretion in the Crustacean Molting Gland
- P2.117** GUTIERREZ, A, SHIMOIDE, A, EBANKS, T, SALMON, A, YOON , I, FUSE, M; VIDEOGRAPHIC AND ELECTROPHYSIOLOGICAL ANALYSIS OF ECDYSIS BEHAVIORS IN THE LARVAE AND PUPAE OF THE HORNWORM, *MANDUCA SEXTA*
- P2.118** GERLACH, N.M.*, KETTERSON, E.D.; Behavioral responses to a GnRH challenge in captive male dark-eyed juncos (*Junco hyemalis*)
- P2.119** (DCE) O'BRIEN, S., BENTLEY, G.E., WINGFIELD, J.C.; KiSS Increases LH in Gambel's
- P2.132A** (DCE) TARRANT, A.M., GREYTAK, S.R., CALLARD, G.V., HAHN, M.E.; Estrogen receptor-related receptors in the Atlantic killifish *Fundulus heteroclitus*: diversity, expression, and estrogen responsiveness
- P2.132** CHUNG, Koo-Whang, MCEDWARD, Lari/A, MOORE, Brandon/C, MILNES, Matthew/R, IGUCHI, Taisen, GUILLETTE, Louis/J; Folliculogenesis of juvenile American alligators (*Alligator mississippiensis*) and the role of genetic regulation of gonadal hormones in ovarian follicle formation as a study in life history
- P2.133** (DNB) SIMON, Jodie L., MOORE, Paul A.; Mating as an Evolutionary Advantage of Dominance
- P2.134** ADDISON, BA, KITAYSKY, AS, HIPFNER, JM; Is parental investment by rhinoceros auklets (*Cerorhinca monocerata*) fixed or flexible?
- P2.135** (DAB) CLASS, A.M., CHAVES-CAMPOS, J.; Breeding behavior and nest site selection of the Ocellated Antbird *Phaenostictus mcleannani*
- P2.136** CHENG, Chia Wei, HORNG, Shwu Bin; The mechanism and adaptation of Egg-dumping behavior of *Callosobruchus maculatus*
- P2.137** YANG, R. L., FUSHING, H., HORNG, S. B.; Evaluating discrimination performances of the seed beetle, *Callosobruchus maculatus* (F.)
- P2.138** PETTITT, Beth, WATERMAN, Jane M; Reproductive suppression in female Cape ground squirrels, *Xerus inauris*
- P2.139** SIMPSON, A.W., ECKELBARGER, K.J., WATLING, L.; Some Aspects of the Reproductive Biology of *Paramuricea placomus* (Octocorallia) from the Gulf of Maine
- P2.140** WILDER, S. M., RYPSTRA, A. L.; A Comparison of Precopulatory and Postcopulatory Sexual Cannibalism in a Wolf Spider (Araneae, Lycosidae)
- P2.141** (DIZ) CHRISTOPHER, CATHERINE E., SALMON, MICHAEL; Do Fiddler Crab Larvae Show Phenotypic Plasticity?

White-crowned Sparrows (*Zonotrichia leucophrys*

gambelii)

P2.120 (DCE) WACK, C.L., LOVERN, M.B.; Sex, Age, and Season Effects on Plasma Steroids in Free-ranging Texas Horned Lizards

P2.121 (DCE) SELCER, KW, VERBANIK, JL; Vitellogenin in the Northern Leopard Frog (*Rana pipiens*): Purification, Characterization and Development of a Immunoassay

P2.122 (DEE) ALLMAN, Phil, ROOSENBURG, Willem, BOWDEN, Rachel; Egg size and yolk hormone levels in the diamondback terrapin across a latitudinal gradient

P2.123 SCHUBERT, SN, WOODLEY, SK; Testosterone increases behavioral, but not vomeronasal organ, responses to pheromones in the Plethodontid salamander, *Plethodon shermani*

P2.124 GORDON, N.M., GERHARDT, H.C., HELLMAN, M.L., TEGTMEYER, C.G.; Conspecific acoustic signals influence ovarian development and hormonal levels in female gray treefrogs (*Hyla versicolor*).

P2.125 (DCE) ROSTAL, D.C., LEBLANC, A.M., DRAKE, K.K., FRICK, M., WILLIAMS, K., BARNARD-KEINATH, D.; Reproductive Physiology Of Loggerhead Sea Turtles (*Caretta caretta*) Nesting On Two Georgia Barrier Islands: Understanding Population Patterns And Fecundity

P2.126 (DCE) KAVANAUGH, S.I., SOWER, S.A.; Characterization of gonadotropin-releasing hormone (GnRH) in the Atlantic hagfish *Myxine glutinosa*

P2.127 (DCE) GARCÍA-G , C, VILLALOBOS, P, JEZIORSKI , MC, VALVERDE-R , C, OROZCO , A; 3,5-T2 has thyromimetic effects in killifish.

P2.128 (DCE) BUSHOLD, G.J., FREMAT, M, TRANT, J.M., KAWAUCHI, H, TAKAHASHI, A, MORIYAMA, S; Production of Recombinant Lamprey Gonadotropin Hormone Beta-Chain in Drosophila S2 Cell Line

P2.129 BARON, MP, SOWER, SA; Lamprey Estrogen Receptor Expression by In Situ Hybridization in the Brain and Pituitary of Adult Sea Lamprey.

P2.130 (DCPB) HATLE, JD, WELLS, SM, ALLEN, IC, FULLER, LE, MELNYK, S, QUATTROCHI , J; Calorie restriction enhances longevity without altering hemolymph protein or lipid storage in female grasshoppers

P2.131 (DCE) ZOU, E.; External Features of Several Sexually Abnormal Fiddler Crabs, *Uca pugilator*