

**P3 Poster Session 3**

- P3.1** ALEMADI, S.D., JENKINS, D.G.; Dispersal behavior of mosquitofish *Gambusia holbrooki*
- P3.2** RAY, Julie M., PIKE, David A.; Defensive behaviors in neotropical snakes: an interspecific comparison
- P3.3** (DAB) SPEZZANO JR., L.C., CLAUSSEN, D.L.; The fast and the furious: Using simulated habitats to study locomotor behavior during agonism in juvenile freshwater turtles *Chrysemys picta*
- P3.4** (DCE) PEREYRA, Maria Elena, MORTON, Martin L.; Weather and predation as selective factors driving nest-site selection in two populations of dusky flycatcher
- P3.5** MCGUIRE, B.M., WILLIAMS, J.D.; Use of partially predated gastropods by the hermit crab *Pagurus longicarpus*: Who is predated on the snail *Littorina littorea*?
- P3.6** (DNB) FERRO, K.C., MOORE, P.A.; Social status induces variability in shelter use and forging behavior in crayfish
- P3.7** (DNB) TIERNEY, A.J., GUNARATNE, C., JENNISON, K.; Behavioral correlates of alternate male forms (Form I and Form II) in adult crayfish.
- P3.8** (DAB) WORTHAM, J.L.; Habitat selection and grooming behaviors of male and female mantis shrimp
- P3.9** (DIZ) DINGER, B.C., TANKERSLEY, R.A.; Rhythmic activity of adult fiddler crabs *Uca pugilator* from areas with different tidal regimes
- P3.10** JENKS, S. M., KHAN, S., TRACY, K., KENDALL, K.; Photoperiod influence on crayfish agonistic behavior
- P3.11** (DVM) MANDICA, Mark L; A comparison of photoperiod related activity patterns between two South Florida toads (Anura: Bufonidae)
- P3.12** (DCPB) BYRNE, R.A., RUNDLE, S.D., SPICER, J.I.; Effects of oxygen tension on embryonic behavior in the pondsnail, *Lymnaea stagnalis*
- P3.13** VASQUEZ, M. S., BURNAFORD, J. L.; The role of UV radiation in microhabitat selection by the seastar, *Pisaster ochraceus*
- P3.14** (DAB) OYELEYE, M.O., CHATTERJEE, J., ARACENA, J.; The feeding and searching behavior of fruit flies (*Drosophila melanogaster*) on patches of sucrose: effects of quinine and substrate color
- P3.15** (DAB) MCCULLOUGH, E, FOSTER, R, HANNAFORD, S; Temporal and Spatial Memory in Foraging Bumblebees
- P3.16** (DAB) MARKWELL, Poppy, GOYRET, Joaquin, RAGUSO, Robert A.; Decoupling odor from visual cues in nectar feeding by *Manduca sexta*
- P3.17** GOYRET, Joaquin, RAGUSO, Robert A.; The role of mechanosensory input in flower handling efficiency and learning by *Manduca sexta*
- P3.27** GILLIS, Nancy, WALTERS, Linda, YEARGAIN, Michele, REINHART, Debra; Effectiveness of Ferrate (FeO<sup>-2</sup>) as a Ballast Water Disinfectant
- P3.28** (DEE) CORBIN, C.E., MILES, D.B., ERNST, N.; Age of evolutionary origin or ecological diversity: which better explains the morphological disparity of New World flycatcher clades?
- P3.29** FADAEL, Rudgie , TËMKIN, Ilya , DESALLE, Rob, BOLNET, Carolle; Analysis of Shape Variation in Several Populations of Bivalves Genus *Pinctada*
- P3.30** DIJKSTRA, J.A., HARRIS, L.G.; Long-Term Shifts in Seasonal Patterns of Biodiversity in a Marine Fouling Community
- P3.31** (DCE) KUBOKAWA, Kaoru, YAMAMOTO, Tomoko, YAMANAKA, Toshiro, FUJIWARA, Yoshihiro; Habitat of novel species of amphioxus found in whale fall in Japan
- P3.32** (DEE) GRIGGS, JL, BELDEN, LK; Decreased survival of trematode cercariae *Echinostoma trivolvis* following atrazine and metolachlor exposure
- P3.33** (DEE) DRAUGHON, Lisa D., SCARPA, John, HARTMANN, James X., KEATING, Patricia; Potential bioremediation of bacterial contamination in marine waters by the tunicate *Styela plicata*: filtration rate.
- P3.34** ESPINOZA, Johanna, CATAPANE, Edward J., CARROLL, Margaret A.; Effects of Copper on O<sub>2</sub> Consumption in Gill of the American Oyster, *Crassostrea virginica*
- P3.35** (DCPB) HUGGINS, T., LETT, K., CATAPANE, E.J., CARROLL, M.A.; Effects of Heavy Metals on Mitochondrial Cytochrome c Oxidase of the American Oyster, *Crassostrea virginica*
- P3.36** (DCPB) REID, Inefta, CARROLL, Margaret A., FLORES, Liz, CATAPANE, Edward J.; A Comparative Study of the *In Vivo* and *In Vitro* Effects of Copper on Glutathione S-Transferase Activity in Gill Tissue of the American Oyster,
- P3.37** (DCE) ZOU, E., STUEBEN, B.; Acute exposure to naphthalene reduces oxyregulating capacity of the brown shrimp, *Penaeus aztecus*, subjected to progressive hypoxia
- P3.38** (DCPB) JENSEN, BH, PULICE, E; Intact Teleostian Ovarian Follicles as a Potential Detector of Endocrine Disrupting Chemicals and an Undergraduate Level Teaching Tool
- P3.39** (DSEB) TUNE, Jenna S, SCHIERMEIER, Morgan, MCDANIEL, Marshall, MUELLER, Jessica, CAMPBELL, John, MAGLIA, Anne M; The Effects of Mine Drainage on Frog Population Viability
- P3.40** (DIZ) WILLIAMS, R.M., PRICE, R.M.; A mathematical model for exploring the trade-offs in energy

**P3.18** (*DCPB*) BERNATIS, J.L., MCGAW, I.J.; Behavioral Modifications of the Dungeness Crab During Feeding and Digestion in Hypoxia

**P3.19** JONES, SJ, WETHEY, DS; Climate and biogeography in the intertidal zone: experiments and models of species at their southern limits.

**P3.20** (*DSEB*) FESSLER, JL, WESTNEAT, MW; Phylogenetics and Evolutionary History of the Butterflyfishes (Chaetodontidae)

**P3.21** MEYER, H. A.; Terrestrial Tardigrada of Michigan's Upper Peninsula

**P3.22** DONNELLY, M J, WALTERS, L J; Effects of the exotic Brazilian pepper in a Florida mangrove ecosystem

**P3.23** STEPHENS, Natalee, DESALLE, Rob, ALMEIDA, Francisca , GIANNINI, NORBERTO , BOLNET, Carolle; Towards a Phylogeny of Megabats

**P3.24** SICARD, Nadine, CORTHALS, Angelique, FEINSTEIN, Julie , BOLNET, Carolle , DESALLE, Rob ; Barcoding Whiptail Lizards (*Cnemidophorus* and *Apidoscelis* spp.) at the Ambrose Monell Cryo Collection.

**P3.25** (*DEE*) MCCLARY, JR., M.; Benthic biodiversity prior to a reverse osmosis plant in Clear Water Bay, China

**P3.26** HILL, M., HILL, A., LOPEZ, N., HARRIOTT, O.; The Caribbean sponge *Chondrilla nucula* harbors diverse and sponge-specific bacterial symbionts

associated with growing gastropod shells

**P3.41** (*DSEB*) MUELLER, Jessica M., MAGLIA, Anne M.; Osteology of *Acris crepitans blanchardi* and Skeletal Variation among Hylids

**P3.42** MCCARTHY, Robert C.; Supralaryngeal vocal tract morphology in the rhesus macaque (*Macaca mulatta*): A geometric morphometric analysis of growth, development and integration

**P3.43** (*DIZ*) MAH, C.L.; A new species of *Xyloplax* (Echinodermata; Asteroidea; Concentricycloidea) from the Northeast Pacific: Comparative Morphology and A Reassessment of Concentricycloid Phylogeny

**P3.44** EVANS, G., EVANS, A.R., PLJUSNIN, I., FORTELIUS, M., JERNVALL, J.; MorphoBrowser a new database for surfing the dental morphospace

**P3.46** (*DEDB*) CRAWFORD, Karen; MAPK in the D quadrant organizer of the squid embryo *Loligo pealei*

**P3.47** (*DSEB*) CAMPBELL, John, TUNE, Jena, MUELLER, Jessica, MCDANIEL, Marshall, SCHIERMEIER, Morgan; Osteology of *Acris crepitans blanchardi* and Skeletal Variation among Hylids

**P3.48** TSUIHJI, T., KEARNEY, M., RIEPPEL, O.; Differentiation of axial muscles in the anterior precloacal region of snakes and implications for the cervico-dorsal boundary

**P3.49** (*DEDB*) MAZZA, M.E.\*, RYAN, J.F., MULLIKIN, J.C., ROKSHAR, D.S., FINNERTY, J.R.; Evolutionarily conserved and derived homeobox clusters in the starlet sea anemone *Nematostella vectensis*

**P3.50** (*DEDB*) SCEMAMA, Jean-Luc, LE PABIC, Pierre, STELLWAG, Ed; The evolutionary developmental divergence of vertebrate *Hox* paralog group 2 gene expression.

**P3.51** ARMGARDT, Emily, T. ; Insects of the Sea: A Morphological Analysis of Copepod Evolution and Development

**P3.52** (*DEE*) BARBEITOS, MS; Morphological constraints in the evolution of shape in Scleractinian corals

**P3.53** ERIKSSON, BJ, TAIT, NN, AKAM, M; Early development in the velvet worm *Euperipatoides kanangrensis* (Onychophora: Peripatopsidae).

- P3.54** REIS., C., BOLL, W., NOLL, M., OSSWALT, M., WARNER, L., HILL, M.; Isolation and analysis of Pax and Six genes in marine sponges
- P3.55** ROSENMAN, B.A., LOVEJOY, C.O.; Morphological description of the pelvis of *Fgf4* and *Fgf8* conditional knockout mice
- P3.56** ROBERTSON, Bruce; A Cognitive Perspective on Evolutionary Traps
- P3.57** RHYNE, A.L.\*, LIN, J.; A western Atlantic peppermint shrimp complex: redescription of *Lysmata wurdemanni* (Gibbes), description of four new species and remarks on *L. rathbunae* Chace (Crustacea: Decapoda: Hippolytidae)
- P3.59** ROMASCO, Rebecca, TIMOTHY, Miller, GIBB, Alice C.; The biomechanical basis of intramandibular bending: a novel jaw joint facilitates substrate feeding in the Poeciliidae
- P3.60** SELBY, M.S., RENO, P.L., MCCOLLUM, M. A., LOVEJOY, C. O; Is colobine thumb reduction pleiotropic?
- P3.61** (*DIZ*) VOLTZOW, J., AHMADZADEH, B., BROWN, R.; Collagen-wrapped bundles of smooth muscle: A synapomorphy for the Mollusca?
- P3.62** VINCIE, M., BELDEN, L.K.; Does the distance between intermediate hosts alter parasite transmission? A test using free-swimming trematode cercariae and tadpoles
- P3.63** CONNELLY., P.W., TURNER., R.L.; Analysis of High Intertidal Algal Communities: Comparisons between Living and Non-Living Substrata
- P3.64** ALPHONSE, M.S.; The Widespread Effects of Brazilian Pepper on its Environment
- P3.65** GLARDON, Christian/G., WALTERS, Linda/J., QUINTANA-ASCENCIO, Pedro, WEISHAMPEL, John/F., MCCAULEY, Lisa; Predicting Risks of Invasion of *Caulerpa* Species in Florida
- P3.66** BOUDREAUX, M.L, WALTERS, L.J.; *Mytella charruana* along the Atlantic Coast of Florida: A Successful Invasion?
- P3.67** (*DIZ*) BAKER, Shirley M., FAJANS, Jon S.; Feeding rates in the invasive green mussel, *Perna viridis*; Potential for ecosystem change.
- P3.68** STINER, J. S., WALTERS, L. J.; Intertidal oyster reefs impacted by recreational boating: effects on reef structure and biodiversity
- P3.69** SHOWALTER, Ann M, BURNAFORD, Jennifer L; Habitat selection and predation pressure of the seastar *Leptasterias hexactis*
- P3.70** MULLIGAN, C. C., JOHNSON, K. B.; The Impact of Wind-Driven Waves on the Recruitment, Persistence and Morphology of Rocky Intertidal Organisms
- P3.71** (*DEE*) PURRENHAGE, Jennifer L, BOONE, Michelle D; Effects of Habitat Structure and Competition
- P3.81** (*DCPB*) PHILLIPS, M.R. , JOHNSON, E.A., TERWILLIGER, N.B. ; Exploring the Functional Genomics of Development and Adaptation in *Cancer magister*
- P3.82** (*DCE*) ROZMAN, R., MENON, J.M.; Effects of retinol and phytol on oxidative stress during anuran metamorphosis and regeneration.
- P3.83** OLLIKAINEN, N., CHANDSAWANGBHUWANA, C.; Evolution of Ecdysone and Thyroid Hormone Receptors
- P3.84** (*DEDB*) TANAKA, K, TRUMAN, JW; Expression of patterning genes in the larval and the adult legs of *Manduca sexta*
- P3.85** (*DCE*) GOEHNER, Nicholas, KELSTRUP, Hans, KVALHEIM, Lisa, ZUMWALT, Kari, EREZYILMAZ, Deniz, RIDDIFORD, Lynn; The Search for the Transcription Factor Broad in Non-Insectan Arthropods
- P3.86** FOX, Samuel , VON KALM , Laurence; Preliminary characterization of three genes with potential roles linking the RhoA signaling pathway to the ecdysone response in *Drosophila* epithelia
- P3.87** (*DIZ*) SANTAGATA, S.; The significance of neuromuscular anatomy and metamorphosis in the larval and juvenile body plans of phoronids and brachiopods.
- P3.88** (*DNB*) HENS, M.D., FOWLER, K.A., BURROWS, B.J., DEAL, A.M., LEISE, E.M.; Neural Cell Birth and the Characterization of Larval Nitric Oxide Synthase Expression and Activity in the Caenogastropod *Ilyanassa obsoleta*
- P3.89** (*DEDB*) MASLAKOVA, S. A., MATZ, M. V.; Evolution of Larval Development in Nemerteans (Phylum Nemertea)
- P3.90** (*DDCB*) WONG, C. K., HOSHIZAKI, D. K., GIBBS, A. G.; Energetics of Metamorphosis in *Drosophila melanogaster*
- P3.91** ATTIA, Jonven, SARINSKY, Gary, STEWARD-WALKER, Mechelle, NDUKA, Ebere, CARROLL, Margaret A., CATAPANE, Edward J.; The Survival of the American Oyster, *Crassostrea virginica*, in Jamaica Bay, New York
- P3.92** BARBER, A.L., WALTERS, L., BIRCH, A.; Restoration of Intertidal Oyster Reefs Affected by Intense Boating Activity in Shallow Florida Waterways
- P3.93** RENSEL, M.A., ELLIOTT, J.K., WIMBERGER, P.; Will the introduced mussel *Mytilus galloprovincialis* outcompete the native mussel *M. trossulus* in Puget Sound? A study of relative frequencies, growth and survival among different habitats
- P3.94** (*DEE*) ESTES\*, J., WIBBELS, T., WYNEKEN, J., EHRHART, L., TUCKER, T., CARTHY, R.; Temperature Comparison of *Caretta caretta* Nesting Beaches throughout Florida

on Larval Amphibian Development

**P3.72** (DCPB) LEASE, HM; Temporal Patterns in a Chihuahuan Desert Grassland: an Investigation using a Higher-order Insect Predator

**P3.73** (DSEB) BRYAN, R., CLARK, M. W.; Wetlands birds survey: A comparison of conventional stormwater basins, enhanced stormwater basins, and natural wetlands

**P3.74** PATRICK, Lorelei E, RUEDAS, Luis A; Multivariate morphological approaches to the ecological niche partitioning in Costa Rican bats (Mammalia: Chiroptera)

**P3.75** (DCPB) FAIRCLOTH, LM, SHAFER, TH; Expression of Various Genes for Cuticle Proteins in the Blue Crab, *Callinectes sapidus*

**P3.76** CHUNG, J. Sook, ZMORA, N.; Crustacean cardioactive peptide: cDNA structures and expression patterns in crustaceans.

**P3.77** (DCPB) SANDERS, E.M., TERWILLIGER, N.B.; Regulation of Hemocyanin and Cryptocyanin in adult *Cancer magister*

**P3.78** (DCPB) JAYASUNDARA, N., SPANINGS-PIERROT, C., TOWLE, D.W.; Salinity-induced changes in isoform-specific Na<sup>+</sup>+K<sup>+</sup>-ATPase gene expression in the European shore crab *Pachygrapsus marmoratus*

**P3.79** SERRANO, L.A.\*, HENRY, R.P.; Salinity-induced changes in Carbonic Anhydrase activity and mRNA expression in the blue crab *Callinectes sapidus*

**P3.80** MOORE, Beth, TAGMOUNT, Mani, STILLMAN, Jonathon; Latitudinal variation in transcriptome profiles following heat and cold stress of the porcelain crab, *Petrolisthes cinctipes*

**P3.95** (DEE) TUTTLE, Jacob A., ROSTAL, David C.; LOGGERHEAD SEA TURTLE *Caretta caretta* NESTING ON A GEORGIA BARRIER ISLAND: EFFECTS OF NEST RELOCATION

**P3.96** BIRK, K.L., RUANE, S., DINKELACKER, S.A., JANZEN, F.J.; Effects of Environmental Conditions during Embryonic Development on Neonates of the Imperiled Blanding's Turtle (*Emydoidea blandingii*)

**P3.97** CARROLL, Lindsay M., JANZEN, Fredric J.; Behavior and structure of a riverine population of imperiled Blanding's Turtles, *Emydoidea blandingii*

**P3.98** (DEE) PARK, A.P., WIBBELS, T., LIRA-R., D., CASTRO-MARTINEZ, M., VEGA-M., L., BURCHFIELD, P.; Episodic Production of Male-Biased Hatchling Sex Ratios in the Kemp's Ridley Sea Turtle

**P3.99** (DCE) SHULMAN, D., JONES, M., PATEL, K., PATEL, T., WYNEKEN, J, WIBBELS, T; Histological evaluation of hatchling sex ratios from loggerhead sea turtle nests along the Atlantic coast of the U.S.

**P3.100** (DCPB) MORTON, Martin L., PEREYRA, Maria E.; Sexual differences in habitat useage by Yosemite Toads

**P3.101** PERKINS, J.L.\*, WALTERS, J.R.; The Impact of Military Training on Reproduction and Behavior of Red-cockaded Woodpeckers

**P3.102** KIDD, Michael R., KOCHER, Thomas D.; Spatial and Temporal Dynamics of a Community of Translocated Cichlids around Thumbi West Island in Lake Malawi

**P3.103** (DCPB) ARTACHO, P., CASTAÑEDA, L.E., SOTO-GAMBOA, M., VERDUGO, C., NESPOLO, R.F.; Haematological Parameters As Tools For Evaluate Physiological Status In An Endangered Black-necked Swan Population.

**P3.104** ANDERSON, C.J., WATERMAN, J.M., ROTH, J.D.; Non-Invasive Identification of Individual Polar Bears by Whisker Spot Patterns

**P3.105** (DIZ) PAULASKIS, G. M., SAWYER, S. J; Changes in the distribution of cell adhesion molecules -catenin during temperature shock and cytochalasin B treatment in the sea anemone, *Aiptasia pulchella*

**P3.106** (DSEB) ROMANO, S.L.; Utility of multilocus phylogenetic analysis for assessing species differences in scleractinian corals of Caribbean *Porites*

- P3.107** ANDERSON, David A; The Incidence of Coral Disease on the Islands of Cayos Cochinos, Honduras
- P3.108** (DIZ) GILCHRIST, S.L.; Hermit crab distributions in the backreef of Cayos Cochinos Grande (Bay Islands, Honduras)
- P3.109** (DCPB) STEARNS, M.H., THOMBRE, R.M., GILLEN, C.M., ITAGAKI, H.; The metabolic rates and the expression of a cation-chloride cotransport protein during development in larval *Manduca sexta*.
- P3.110** MODRELL, M.S., PRICE, A.L, HANNIBAL, R.L., PATEL, N.H.; Regulation of early cell fates in the amphipod crustacean, *Parhyale hawaiiensis*
- P3.111** (DCPB) SEPÚLVEDA, R.D.; Analyzing allometry in an intertidal gastropod using geometric morphometrics
- P3.112** WOTTON, KR, MAZET, F, SHIMELD, SM; Fox gene duplication in vertebrate evolution
- P3.114** LEWIS, K.K., CEBRA-THOMAS, J.A., GILBERT, S.F.; The expression of signaling molecules in the developing scute of the turtle *Trachemys scripta*
- P3.115** (DIZ) KHODABANDEH, Saber, GHOLZARI, Alaleh; Immunolocalization of Na<sup>+</sup>/K<sup>+</sup> pump in the branchial cavity of *Palaemon elegans* (Decapoda, Crustacea) and effects of mercury on Na<sup>+</sup>,K<sup>+</sup>-ATPase immunoreactivity
- P3.116** (DIZ) KHODABANDEH, Saber, ESMAILI SARI, Abbas; Effects of copper on branchial Na<sup>+</sup>,K<sup>+</sup>-ATPase immunoreactivity in *Astacus leptodactylus* (Crustacea, Decapoda)
- P3.117** (DIZ) KHODABANDEH, Saber, SHAHRIYARI, Mohsen; Accumulation and the toxic effects of Mercury on survival and gill structure of *Mugil auratus*
- P3.118** (DCE) LERNER, D.T., DAVIS, L.K., MCCORMICK, S.D., HIRANO, T., GRAU, E.G.; Effects of 4-nonylphenol and 17-estradiol on osmoregulatory homeostasis and endocrine responses of Mozambique tilapia, *Oreochromis mossambicus*
- P3.119** NEUMAN-LEE, Lori A., JANZEN, Fredric J.; Effects of Atrazine on Map Turtle (*Graptemys*) Development and Behavior
- P3.120** (DCE) WOODS, Caroline S., ROSTAL, David C.; Identifying Sex in Juvenile and Immature Gopher Tortoises *Gopherus polyphemus*, a Species with Delayed Sexual Maturation
- P3.121** (DCE) FRANCESCHINI, M.D.\*, CUSTER, C.M., CUSTER, T.W., ROMERO, L.M.; Corticosterone Stress Response in Tree Swallows (*Tachycineta bicolor*) Nesting Near a PCB-Contaminated River
- P3.122** (DAB) RAMENOFISKY, M.\*, MOFFAT, J., COVERDILL, A.J., BENTLEY, G.E.; How do migrants respond to prolonged migratory restlessness?
- P3.123** (DCE) GREIVES, Timothy, CLAY, Keith,
- P3.135** (DEE) HUSSAIN, Sofia M, LIVINGSTON, Brian T; Codon usage frequencies are influenced by concerted evolution and selection in a gene encoding a protein containing imperfect repeats
- P3.136C** (DVM) HANCOCK, Jennifer A., BIKNEVICIUS, Audrone R.; Phylogenetic analysis of foveation in birds
- P3.136A** (DSEB) MAHON, A.R., CARPENTER, K.E.; The recombination activating gene 1 (RAG1) and phylogenetic inference of the suborder Percoidei within the Perciformes (Teleostei)
- P3.136B** DELA CALZADA, D.D., GOSLINER, Dr. T.M.; Systematic Phylogeny of the Nudibranch Genus *Godiva* (Macnae, 1954)
- P3.136** SMITH, J.V.\*, KIMBALL, R.T., BRAUN, E.L.; Resolving the Phylogeny of Paleognathes: A Novel Genomic Approach
- P3.137** UEDA, N., BOETTCHER, A.A.; Variations in Heat Shock Protein 70 Expression Among Developmental Stages and Tissue Types in *Crassostrea virginica*
- P3.138** (DEE) MACH, M.E.; The effects of embryonic heat stress on hatching size and larval growth of the bubble snail *Melanochlamys diomedea*
- P3.139** (DIZ) MRAZ, J, THURMAN, C, BENNETT, C, BRODIE, R; Osmotic tolerance in meglopal and adult crabs of *U. minax*: can early life stages withstand the same regimes as adults?
- P3.140** (DIZ) BORGIANINI, SA, JURISA, J, STYLES, R, BRODIE, RJ; A Model Describing the Dispersal Capabilities of the Red-Jointed Fiddler Crab (*Uca minax* LeConte) Postlarvae in a River-Dominated Estuary.
- P3.141** (DIZ) GRAVINESE, P.M., TANKERSLEY, R.A.; Behavioral Basis of Depth Regulation in Larvae of the Florida Stone Crab *Menippe mercenaria*: Responses to Hydrostatic Pressure
- P3.142** (DIZ) GEORGE, S. B., FOX, C. A.; Ingestion rates on natural and artificial particles by pacific echinoderm larvae
- P3.143** (DCE) PETERSON, J.D., WOOD, M.B., HOPKINS, W.A., MENDONCA, M.T.; Inter-specific differences between larval American Bullfrog (*Rana catesbeiana*) and Southern Leopard Frog (*Rana sphenoccephala*) susceptibility to *Batrachochytrium dendrobatidis* infection within a contaminated wetland on the Savannah River Site, South Carolina
- P3.143A** (DIZ) STROTHER, J.A., MCHENRY, M.J.; The effects of morphology and behavior on phototaxis in ascidian larvae.
- P3.144** BERNARD, Alaina B., JENKINS, David G.; Metapopulation dynamics in two small-world networks
- P3.145** (DIZ) LAWRENCE, J.M., COBB, J, HILBER, SE, SWIGART, JP; Characteristics of populations of sand

DEMAS, Gregory; Effects of a common fungal endophyte, *Neotyphodium coenophialum*, on reproductive and immune factors in prairie voles (*Microtus ochrogaster*)

**P3.124** (DCE) CONLON, JM, OHNUMA, A, KAWASAKI, H, IWAMURO, S; Triiodothyronine differentially stimulates expression of genes encoding antimicrobial peptides in the skin of Tagos brown frog *Rana tagoi*

**P3.125** (DEDB) ZENG, L., SWALLA, B. J.; Evolution of Coloniality in the Tunicates: How many times has it evolved?

**P3.127** LEE, T., BURCH, J. B., Ó FOIGHIL, D.; Historical Phylogeny of Tahitian *Partula*

**P3.128** LARDY, C.H., PARR, L.A.; Clinal and Biogeographical Genetic Variation of the Dungeness Crab (*Cancer magister*): Implications for Marine Reserve Design

**P3.129** KIMBALL, R.T., MARKS, B.D., HAN, K.-L.; Relationship between evolution of the visual pigment rhodopsin and transitions to a nocturnal lifestyle in birds

**P3.130** CASTOE, T.A., STEPHENS, T.S., PARKINSON, C.L., CALESTANI, C.; Evidence for complex evolutionary origins of a sea urchin polyketide synthase gene

**P3.131** BURCH, M. N., MOORE, B., GUILLETTE, JR., L. J., BRAUN, E. L.; Phylogenomic Analyses of Gene Duplication in Holostean Fish

**P3.132** BONILLA, A.J., KIMBALL, R.T., BRAUN, E.L.; Conservation and Molecular Evolution of 3 Untranslated Regions in Birds

**P3.133** NORRIS, J, KINTER, M, KAVETI, S, NIEWIAROWSKI, P H, LONDRAVILLE, R L; Brain Proteome of Fence Lizard is Relatively Refractory to Seasonal Changes in Protein Expression

**P3.134** BRUNER, A.M., ROSS, J.A., PEICHEL, C.L.; The evolution of sex determination in stickleback fish

dollars *Encope michelini* and *Encope aberrans* off the central Florida gulf coast

**P3.146** MUSHINSKY, H., MC COY, E., LUKANIK, I.; Do *Podomys floridanus* exist in metapopulations and do habitat measures have a deterministic effect on their demography?

**P3.147** (DEE) ROGERS, S.A., CORBIN, C.E., WASSMER, G.T.; Prevalence of nest ectoparasites is independent of group size and nest density in barn swallows (*Hirundo rustica*)

**P3.148** ORTIZ-RUIZ, Yadira, JANZEN, Fredric J; Molecular ecology of naturally-occurring albinism in a population of painted turtles(*Chrysemys picta*)