AMS (Room Ireland A) American Microscopical Society: Distinguished Scientist Lecture
17:00 AMS. ECKELBARGER, K.; The Dawn of Invertebrate Zoology in America: A Tribute to the Pioneers

HB (Room Great Hall East) Howard Bern Lecture
18:30 HB. (DCE) SOWER, Stacia A.; Howard Bern Lecture: Insight into the Molecular Evolution of Gonadotropin and its Receptor in the Hormonal Regulation of Reproduction

25 (Room Diamond) Development: Character Development and Evolution
Chair: M. Grace

08:00 25.1 (DEDB) STORZ, Brian; Polyphenism, Plasticity, and Canalyzed Rapid Development; Modifications of the Developmental Program in Spadefoot Toads
08:20 25.2 (DVM) KURATANI, S, NAGASHIMA, H, KURAKU, S, USUDA, R; Nature and function of the carapacial ridge in the turtle embryo
08:40 25.3 (DVM) YOUNG, Nathan M, WAT, Stephen, DIEWERT, Virginia, HALLGRIMSSON, Benedikt; The Relationship of Embryonic Facial Size to Adult Facial Length
09:00 25.4 (DIZ) FARLEY, R. D.; Scorpion respiratory organogenesis: spiracles, sac-like invaginations and book lung lamellae
09:20 25.5 TAYLOR, S/M, GRACE, M/S; Evolution and Ecology of Vision: Development of Photoreceptor Arrays in Elopomorph Fish
09:40 25.6 (DCPB) HAHN, DA; Characterization of hexameric storage proteins during development and reproduction in the flesh fly, Sarcophaga crassipalpis

26 (Room Diamond) Muscle Performance
Chair: S. Kinsey

10:20 26.1 (DCPB) FIELDS, P.A., STROTHERS, C.; Muscle-type lactate dehydrogenase of the Galapagos marine iguana, Amblyrhynchus cristatus, is adapted to high temperature.
10:40 26.2 (DCPB) KINSEY, S.T., DA SILVA, M., PATHI, P., LOCKE, B.R.; Diffusion limitation of aerobic metabolism in muscle fibers
11:00 26.3 (DCPB) PRICE, E. R., GUGLIELMO, C. G.; Fatty Acid Composition of Muscle Phospholipids in Migratory Sparrows
11:20 26.4 (DCPB) BATTIPROLU, P.K., RODNICK, K.J.; Evidence for Sex Differences in Glucose-Mediated Cardiac Contractility in Rainbow Trout (Oncorhynchus

11:00 28.3 (DVM) STAYTON, C. TRISTAN; Is convergence surprising? A simulation study using a Brownian motion model of evolution among quantitative characters
11:40 28.5 (DEE) ARENDT, Jeff; Cell size vs. cell number. Does it matter?

29 (Room Emerald) Conservation Biology
Co-chairs: T. RIMKUS & K. MARTIN

08:00 29.1 INMAN, Richard D., NUSSEAR, Kenneth E., TRACY, C. Richard; Elusive species: a novel approach to measuring activity and sampling availability
08:20 29.2 NUSSEAR, K. E., INMAN, R. D., TRACY, C. R.; Application of modeling activity and sampling availability toward improving monitoring of an elusive species
08:40 29.3 (DAB) BEAUMAN, R.L., MENDONÇA, M.T.; Factors Affecting Degree of Burrow Collapse and Resulting Tortoise Self Excavation and Behavior
09:00 29.4 (DEE) HAGERTY, B.E., TRACY, C.R.; Identification of population structure for a rare and cryptic species: implications for conservation
09:20 29.5 (DCE) BOUGHTON, R.K., BOWMAN, R, KEARNS, L, SCHOECH, S.J; Variation between suburban and wildland populations in nestling immune response of Florida Scrub-Jays Aphelocoma coerulescens
09:40 29.6 (DEE) GOBUSHER, K.S., WASSER, S.K.; Patterns of Genetic Relatedness in a Poached Population of African Elephants Loxodonta africana
10:20 29.7 (DCPB) MARTIN, KL, JOHNSON, PB, MORAVEK, C, ASHLEY, R, MATSUMOTO, J; Citizen scientists assess populations of an elusive, charismatic fish
10:40 29.8 (DVM) RIMKUS, Todd, GOUVEIA, Michelle, GOMERO, Boloye; The effects of passive integrated transponder tag implantation on the growth of hatching painted turtles (Chrysemys picta)
11:00 29.9 (DEE) REICH, K.J., BJORNDAL, K.A., BOLTEN, A.B.; Tracking Ontogenetic Shifts in Diet and Habitat of Juvenile Sea Turtles with Stable Isotopes
11:20 29.10 Hristov, N.I., Betke, M., Kunz, T.H.; Assessment of Brazilian Free-tailed Bat (Tadarida brasiliensis) Populations Using Advanced Infrared Thermal Imaging

30 (Room Scotland A) Regulatory Biology: Decapod Endocrinology and Reproduction
Chair: S. Tamone

08:00 30.1 (DCE) CHAN, S.-M.; Vitellogenin and vitellogenesis in decapod crustaceans: knowledge from

27 (Room Sapphire) Macroevolution I
Chair: M. Kidd

08:00 27.1 BOYER, S. L., GIRIBET, G.; Vicariance in the harvestman family Pettalidae (Arachnida, Opiliones, Cyphophthalmi) during the breakup of Gondwana
08:20 27.2  (DIZ) MASSEY, S. E., CURTIS, N. E., PIERCE, S. K.; Identification of a retrovirus that may have a role in the life cycle and chloroplast symbiosis of kleptoplastic sea slugs.
08:40 27.3  (DSEB) TRIPP, Erin, A.; Nothing happens once: systematics and parallel evolution in the species-rich genus Ruellia (Acanthaceae)
09:00 27.4 KIDD, Michael R., KOCHER, Thomas D.; Patterns of Ecological Diversification within Pseudotropheus tropheos, a Subgenus of Rock Dwelling Cichlid from Lake Malawi
09:20 27.5 CLOUSE, R. M., GIRIBET, G.; The Systematics and Biogeography of the Stylocellidae, a Southeast Asian Family of Cyphophthalmi (Opiliones)
09:40 27.6  (DIZ) SPENCE, H.R., KNOWLTON, R.E., MERCHANT, H.C.; A comparison of cryptic species of Alpheus (snapping shrimp) from North Carolina and Florida

28 (Room Sapphire) Evolutionary Theory
Chair: R. Amundson

10:20 28.1  (DEDB) AMUNDSON, R.; Evo-devos Hard Problem: Natural Selection

30.2 PARNES, S, RAVIV, S, ELDOR, R, SINGER, A, KEASAR, C, SAGI, A; The vitellogenin of the penaeid shrimp Litopenaeus vannamei and a bioinformatic analysis of decapod vitellogenin deduced amino acid sequences

30.3 ZMORA, Nilli, TRANT, John M, CHUNG, Sook J; Characterization of a vitellogenin gene and the endocrine regulation of vitellogenesis of the blue crab, Callinectes sapidus

09:00 30.4  (DCE) TAMONE, S.L.*, THOMTON, J.D.; Eyestalk Ablation of Female Dungeness Crabs Cancer magister Yields Diverse Results Dependent upon Physiological State.
09:20 30.5 MANOR, R, WEIL, S, OREN, S, AFLALO, E.D, VENTURA, T, LAPIDOT, M; Fishing out uniquely expressed genes of the androgenic gland in the Australian crayfish Cherax quadricarinatus
09:40 30.6  (DCÉ) SHECHTER, A, YUDKOVSKI, Y, TOM, M, OPHIR, R, CHALIFA-CASPI, V, CHANG, S.A; Ecdysteroid-affected genes in endocrinologically-induced molt cycle of the crayfish Cherax quadricarinatus the use of a cDNA microarray

31 (Room Scotland A) Complementary to Genomic and Proteomic Symposium
Chair: S. Morris

10:20 31.1  (DCPB) HEAD, JM, TERWILLIGER, NB; Crustacean Responses to Hypoxia: The Role of HIF-1&alpha.
10:40 31.2  (DCPB) CHUNG, J, Sook, ZMORA, N., ZOHR, Y.; Cloning and expression profile of non-eyestalk Crustacean hyperglycemic hormone (CHH) neuropeptides from the blue crab, Callinectes sapidus
11:00 31.3  (DCPB) TERANISHI, Kristen S, STILLMAN, Jonathon H; Seasonal variation in hepatopancreas transcriptome profiles following heat stress in the porcelain crab, Petrolisthes cinctipes
11:20 31.4 TRANT, J.M., PLACE, A.R.; Production and Analysis of Normalized cDNA Libraries from Blue Crab (Callinectes sapidus) Endocrine Tissues
11:40 31.5  (DCPB) POSTEL, Ute, THOMPSON, Fiona, VINEY, Mark, BARKER, Gary, WEBSTER, Simon, MORRIS, Steve; Red crabs on the run: molecular bases of the seasonal migration of Gecarcoidea natalis

32 (Room Scotland C) Regulatory Biology:
Reproductive Physiology
Chair: K. Selcer

08:00 32.1  (DCE) ELF, P.K., ROBERT, K., THOMPSON, M, FIVIZZANI, A.; Temperature-dependent sex determination in a viviparous lizard: what role do hormones play?
08:20 32.2 (DCPB) LOURDAIS, Olivier, DENARDO, Dale F., HOFFMAN, Ty C.M.; Maternal brooding in the Children’s python (Antaresia childreni) promotes egg water balance

08:40 32.3 (DEE) GILMAN, Casey, WOLF, Blair; Lizards, eggs, and ultrasound: testing the efficacy of quantifying reproductive effort in squamate reptiles using portable ultrasonography.

09:00 32.4 (DCE) DODD, K.L.*, WIBBELS, T.; Clutch-specific Sensitivity to Estrogen in a Turtle with Temperature-dependent Sex Determination

09:20 32.5 (DCPB) LIGON, D.B., LOVERN, M.B.; Maternal, Sex and Incubation Temperature Effects on an Endangered Tortoise, Geochelone sulcata

09:40 32.6 (DCE) LEBlANc, A.M.*, ROSTAL, D.C., WIBBELS, T.; Predicting loggerhead sex ratios: confounding effects of temperature variation and thermosensitive period

33 (Room Scotland C) Regulatory Biology: Stress III
Chair: M. Mendonca

10:20 33.1 (DEE) BAZE, Monica, HAYES, Jack P., WEBER, Lee A.; Gene Expression of House Mice Acclimated to Chronic Hypoxia

10:40 33.2 (DCPB) JOYNER-MATOS, J., CHAPMAN, L. J., JULIAN, D.; Elevated dissolved oxygen level influences fingernail clam (Sphaerium sp.) stress protein expression and population distribution in a Ugandan papyrus swamp

11:00 33.3 (DCPB) PETES, L.E., WEBB, M.A.H., MENGE, B.A.; Differential accumulation of carotenoids in mussel gonadal tissue: a potential response to oxidative stress

11:20 33.4 (DAB) HUGGINS, KA, NAVARA, KJ, HILL, GE, MENDONÇA, MT; Long Term Performance Detriment In Songbirds With Extensive Carotenoid-Based Plumage Coloration: Are Carotenoids Toxic?

11:40 33.5 (DCE) MENDONÇA, M T, WARD, C K; Latitudinal variation in stress responsiveness in anurans: preliminary evidence

34 (Room Ireland A) Comparative Morphology II
Co-chairs: A. Summers & B. Moon

08:00 34.1 (DIZ) SPAIN, D. D. , PERALTA, M.; Sinking in Sand - An Examination of Burrowing in Sea Cucumbers (Holothuroidea: Echinodermata)

08:20 34.2 (DCPB) WOODS, W. A. Jr., FUSILLO, S. J., TRIMMER, B. A.; Caterpillar Calisthenics: Dynamics of a Slow, Stretchy Muscle During Strain Cycling and Simulated Natural Crawling

08:40 34.3 (DVM) MEHTA, Rita, MOON, Brad; The Scaling of Constriction Strength Snakes

08:40 35.3 (DVM) MEYERS, J.J., IRSCHICK, D., VANHOOYDONCK, B., HERREL, A.; Divergent roles for different color signals in a polygynous lizard: A test of the reinforcement and dual-function hypotheses

09:00 35.4 SCORDATO, ES, DREA, CM; Sex-specific variation in Ringtailed lemur Lemur catta olfactory communication

09:20 35.5 (DEE) KIM, Tae Won, KIM, Tae Geun, CHOE, Jae Chun; The evolution of courtship structure building in fiddler crabs: Has it evolved for predation avoidance in both sexes?

36 (Room Ireland B) Sexual Selection
Chair: A. Ophir

10:20 36.1 (DAB) OPHIR, A.G., PHELPS, S.M., WOLFF, J.O.; Selection for social but not genetic monogamy in the prairie vole

10:40 36.2 (DAB) BAEZA, J.A.; The evolution of protandric-simultaneous hermaphroditism in the shrimp Lysmata wurdemanni is a consequence of sex-dependent time commitments but not sex-dependent mortality rates.

11:00 36.3 BIERBOWER, SM, SPARKES, TC; Parasite-mediated sexual selection in an intermediate host, Caecidota intermedia (Isopoda): effects of sperm production and male-male competition

11:20 36.4 (DAB) HUSAK, Jerry F., LOVERN, Matthew B.; Sexual selection on whole-animal performance: lizard locomotion and mating success

37 (Room Ireland C) Complementary to Ecological Immunology Symposium
Chair: L. Rollins-Smith

08:20 37.1 (DCPB) LONDRAVILLE, R. L., NIEWIAROWSKI, Peter/H, KAVETI, Suma, KINTER, Michael; Proteomic Analyses reveal that Components of the Cytoskeletal Network are Up-Regulated before Hibernation in Fence Lizards

08:40 37.2 (DCE) FRENCH, S. S., MOORE, M. C.; Immune and Reproductive Systems Compete for Resources in Female Tree Lizards (Urosaurus ornatus)

09:00 37.4 (DCPB) HARMs, Heidi K., BOWDEN, Rachel M., TUCKER, John K.; Seasonal, sex-, and age-related variation in serum immunoglobulin levels in the red-eared slider turtle
09:00  34.4  (DVM) MEHTA, Rita; Evolution of Constriction Motor Patterns in Snakes
09:20  34.5  DE SCHEPPER*, N*, ADRIAENS, D, DE KEGEL, B; Cranial morphological specializations related to burrowing: a case study of head- and tail-first burrowing *Pisodonophis boro*.
09:40  34.6  FAULKES, Z.; Do shovel-nosed lobsters shovel with their noses?
10:20  34.7  (DIZ) HADDOCK, S.H.D; Radiolarian diversity and morphology: structural adaptations to the deep sea
10:40  34.8  (DCPB) KAISER, A., KLOK, C.J., SOCHA, J., LEE, W.K., FEZZAA, K., QUINLAN, M.C.; Structure, function, and allometry of the tracheal system of Darkling Beetles (Tenebrionidae)
11:00  34.9  (DIZ) PATEK, Sheila N., BAIO, Joseph, SUMMERS, Adam; Springs, linkages and latches: a mechanical model of the mantis shrimps raptorial appendage
11:20  34.10 (DIZ) TAYLOR, J. R.A., KIER, W. M.; Mechanical properties of a crab skeleton following molting
11:40  34.11 (DEE) COLLIN, M. A., SWANSON, B. O., HAYASHI, C. Y.; Mechanical Properties of Embioptera Silk

35 (Room Ireland B) Animal Communication
Chair: S. Humfeld

08:00  35.1  HYLTON, J.H., BRIDGE, E.S., GAMBLE, L.G., SCHOECH, S.J.; Cryptic Plumage Dimorphism in-*Aphelocoma* Scrub-Jays: Assessing Visible and Ultraviolet Reflectance Across Species and Subspecies
08:20  35.2  STEFFEN, J.E., SIEFFERMAN, L.; Spectral Properties of the dewlaps of Florida Brown Anoles, *Norops sagrei*

09:20  37.5  ADAMO, Shelley A. PARSONS, N; Why does stress suppress immunity? A possible answer from insects.
09:40  37.6  (DCPB) WOODHAMS, Douglas C., RAMSEY, Jeremy P., ROLLINS-SMITH, Louise A.; Effects of cold temperature on antimicrobial peptide synthesis and release in northern leopard frogs, *Rana piperiens*

10:20  37.7  (DEE) GRINDSTAFF, J.L., SMITH, H.G.; Intestinal parasitism during development affects morphology and ornamentation of ring-necked pheasants
10:40  37.8  JIANG, Qiong, GOETZ, Frederick W., PHILLIPS, Ruth, PLACE, Allen R.; Chitinase- A New Member In The Fish Innate Immunity Repertoires

38 (Room Ireland C) Steroid Influences on Reproduction
Chair: C. Blomquist

11:00  38.1  (DCE) KAHN, P.F.*, MENDONCA, M.T.; Seasonal Changes in Sex Steroids of the Gopher Tortoise (*Gopherus polyphemus*) and Their Relationship to Upper Respiratory Tract Disease
11:20  38.2  (DCPB) FINKLER, M.S., GILLEM, A.D.; Sex-related differences in stored energy reserves in spring-breeding hylid frogs
11:40  38.3  (DCPB) BLOMQUIST, Charles H., LIMA, Paul H., ATKINSON, Shannon; Activity of Steroidogenic Enzymes in Placenta and in Lung, Fat and Skin of the Steller Sea Lion Pup (*Eumetopias jubatus*)

39 (Room Diamond) Respiration
Chair: H. Lillywhite

13:00  39.1  (DCPB) LIGHTON, JRB, SCHILMAN, PE; What the *Eleodes* going on: Cyclic gas exchange in the xeric beetle, *Eleodes armata*
13:40  39.3  (DCPB) BRADLEY, TJ, GRAY, EM; Mosquitoes Respire Using The Discontinuous Gas Exchange Cycle.
14:00 39.4 (DCPB) TRUEBLOOD, Lloyd A., SEIBEL, Brad A., GILLY, William F.; Breath holding squid: Physiological constraints on vertical migrations of Dosidicus gigas

14:20 39.5 (DCPB) LILLYWHITE, H., SAWYER, W. G., HEATWOLE, H.; A Functional Interpretation of Pulmonary Structure in Marine Snakes

14:40 39.6 (DCPB) GUADAGNOLI, J. A., TOBITA, K., REIBER, C.L.; Assessing changes in the pressure-area relationship in the open circulatory system of a decapod crustacean, Palaemonetes pugio in response to hypoxia.

40 (Room Sapphire) Macroevolution II
Chair: A. Aronowsky

13:00 40.1 (DEE) ARONOWSKY, A., ANDERSON, L.C.; Corbulid bivalve phylogeny and the facilitation of ecosystem invasion

13:20 40.2 LIOW, Lee Hsiang; Lineage longevity: Luck and a Little Flexibility Go a Long Way

13:40 40.3 (DSEB) SIDLAUSKAS, B.L.; Unequal rates of morphological diversification in sister clades of characiform fishes

14:00 40.4 (DIZ) VENIT, E.P.; Interzoooidal connection predicts division of labor in colonial invertebrates

14:20 40.5 (DSEB) KAMMERER, Christian F.; Temporal patterns in non-mammalian synapsid morphospace

14:40 40.6 (DVM) HOLLIDAY, CM, WITMER, LM; Evolutionary morphology of the orbitotemporal region in Archosauria

41 (Room Scotland A) Prey Processing
Co-chairs: M. Ashley-Ross & L. McBrayer

13:00 41.1 (DVM) ASHLEY-ROSS, MA, WADE, HS; Fearsome fangs and fast feet: Kinematics of prey capture in tarantulas

13:20 41.2 (DVM) MCBRAYER, LD, HERREL, AH, LARSON, PM; Functional basis for intersexual differences in bite force in the lizard Anolis carolinensis

13:40 41.3 (DVM) METZGER, K.A.; The effect of food properties on intraoral transport kinematics in lizards

14:00 41.4 (DVM) ROSS, CF; How do primates chew harder?

14:20 41.5 VINYARD, Christopher J, WALL, Christine E, WILLIAMS, Susan H, JOHNSON, Kirk R, HYLANDER, William L; Are jaw-muscle activity patterns correlated with masticatory apparatus morphology among primate species?

14:40 41.6 (DVM) MARSHALL, C.D., DEHNHARDT, G.; Suction Capability and Performance in Feeding Harbor Seals (Phoca vitulina)

43 (Room Ireland B) Feeding and Flow I
Co-chairs: J. O'Reilly & J. Cooper

14:00 43.1 (DVM) CARROLL, Andrew M., WAINWRIGHT, Peter C., COUGHLIN, David J.; Muscle function and muscular power output during suction feeding

14:20 43.2 (DVM) O'REILLY, J.C., INFANTE, C.R., FENOLIO, D.B., DEBAN, S.M.; Prey Capture in Macrophagous Tadpoles

14:40 43.3 (DVM) CLARK, A. J.*, SUMMERS, A. P.; Functional morphology and kinematics of the hagfish feeding apparatus

44 (Room Ireland C) Paleomorphology
Chair: S. Sumida

13:00 45.1 (DVM) LONGRICH, N. R.; Aquatic marsupials from the Late Cretaceous of North America

13:20 45.2 (DVM) SUMIDA, S.S., NORIEGA, K., FISK, J.; Developing a digital atlas of a ceratopsian dinosaur foot using nearly complete and articulated materials

13:40 45.3 (DVM) GIGNAC, P.M., PRIETO-MARQUEZ, A., ERICKSON, G.M., JOSHI, S.H.; Testing the utility of
### 42 (Room Scotland C) Regulatory Biology: Androgens
**Chair:** S. Woodley

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<td>13:00</td>
<td>42.1</td>
<td>(DAB) Could female ringtailed lemurs be 'masculinized' by maternal androgens?</td>
<td>DREA, C.M.;</td>
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<td>42.2</td>
<td>(DCE) Transfer of Maternal Corticosterone to Yolk in Preovulatory and Postovulatory Tree Lizard (Urosaurus ornatus) Eggs</td>
<td>JOHNSTON, G.I.H.*, MOORE, M.C.;</td>
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<td>(DAB) Sex-Specific Effects of Yolk Androgens in American Kestrels</td>
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<td>(DAB) Blocking androgen and estrogen action does not affect territorial behaviour of sex-role reversed female black coucals Centropus grilii</td>
<td>O’NEAL, D.M., PAVLIS, K., KETTERSON, E.D.;</td>
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<td>42.5</td>
<td>(DCE) Yolk androgens differ independently of maternal androgens in eastern bluebirds: an experimental study</td>
<td>NAVARA, KJ, SIEFFERMAN, LM, HILL, GE, MENDONÇA, MT;</td>
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### 43 (Room Ireland A) Flight Aerodynamics I
**Chair:** B. Tobalske

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<td>43.1</td>
<td>(DIZ) Clap and peel in insect flight with flexible and bristled wings</td>
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### 46 (Room Great Hall West) Complementary to Zebrafish Symposium: Genetics
**Chair:** I. A. Hurley

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<td>46.1</td>
<td>(DEDB) A comparative analysis of gene expression patterns conserved in segmentation of fish and tetrapod skeletons</td>
<td>CROTWELL, P.L., MABEE, P.M.;</td>
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<td>46.2</td>
<td>(DEDB) Transgenic analysis of the mechanism of cypriniform oral tooth loss</td>
<td>JACKMAN, W.R., STOCK, D.W.;</td>
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<td>46.3</td>
<td>(DEDB) The mechanism and consequences of duplicate gene preservation a comparison of hoxb1 duplicates across teleost fish</td>
<td>HURLEY, IA, SCEMAMA, JL, PRINCE, VE;</td>
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<td>46.4</td>
<td>(DEDB) Bone morphogenetic protein expression, regulation, and function in teleost tooth development and evolution</td>
<td>WISE, S. B., STOCK, D. W.;</td>
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<td>(DCE) Overlapping and distinct functions of the duplicated zebrafish insulin-like growth factor-1 receptor (IGF-1R) genes in early development</td>
<td>SCHLUETER, P.J., DUAN, C.;</td>
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<td>(DCE) Preliminary Phylogeny of the Tilefishes Based Upon Their Cytochrome b and 16S Gene Sequences</td>
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