**SICB 2006 Orlando - Saturday, Jan. 7 - Contributed Presentations**

### 47 (Room Diamond) Cladistics/Phylogenetic Analysis
*Chair: A. Schulze*

**08:20 47.1** CLAMP, J.C.; The phylogenetic position of *Lagenophrys* (Protista, Ciliophora, Peritricha) inferred from the sequence of the gene for 18S small subunit rRNA

**08:40 47.2** (DIZ) SCHULZE, A, CUTLER, E.B., GIRIBET, G.; Molecular and Morphological Evolution in Sipunculan Worms

**09:00 47.3** (DSEB) MOTT, TAMI; Molecular Systematics of Brazilian amphibaenids (Reptilia, Squamata, Amphibiaenidae)

**09:20 47.4** ZHONG, M., HALANYCH, K. M.; Mitochondrial Genomes of Three Terebelliformia Annelids

### 48 (Room Diamond) Development: Invertebrate Evolution and Development
*Chair: D. Munson*

**10:20 48.1** (DEDB) DUNN, CW, WAGNER, GP; The evolution and development of colony-level organization in the Siphonophora (Cnidaria, Hydrozoa)

**10:40 48.2** (DEDB) MATUS, DQ, PANG, K, THOMSEN, GH, MARTINDALE, MQ; Signaling pathway complexity in the development of an anthozoan cnidarian

**11:00 48.3** (DEDB) IRVINE, Steven Q; Genomic regulation of the Dll-A/B gene cluster in *Ciona intestinalis*.

**11:20 48.4** (DEDB) RYCHEL, A.L., SWALLA, B.J.; Evolution of Pharyngeal Gill Bars in the Deuterostomes

### 49 (Room Sapphire) Digestion and Excretion: Comparative Digestive Strategies in Flying Endotherms
*Chair: C. R. Tracy*

**08:00 49.1** (DCPB) LAVIN, S.R., MCWHORTER, T.J., KARASOV, W.H.; Differences in paracellular absorption: a function of solvent drag or pore size?

**08:20 49.2** (DCPB) MCWHORTER, T.J., HARTMAN BAKKEN, B., KARASOV, W.H., MARTINEZ DEL RIO, C.; Hummingbirds fuel high metabolism with both paracellular and carrier-mediated intestinal glucose absorption

**08:40 49.3** (DCPB) WELCH, KC, BAKKEN, BH, SUAREZ, RK; Use of Dietary Sugar by Hummingbirds as Revealed by Stable Isotope and Respiratory Analysis

**09:00 49.4** (DCPB) PODLESAK, D. W., MCWILLIAMS, S. R.; Birds metabolically route exogenous nutrients to rebuild digestive organs after fasting

**09:20 49.5** (DCPB) TRACY, C.R., WOJCIECHOWSKI, M.S., MCWHORTER, T.J., YOSEF, R., KARASOV,

### 51 (Room Sapphire) Digestion and Excretion: Comparative Digestive Strategies in Flying Endotherms

**08:40 51.3** (DEE) ERWIN, P. M., THACKER, R. W.; Incidence and Importance of Photosynthetic Symbionts in Shallow-Water Sponge Communities

**09:00 51.4** (DIZ) COWART, J.D.*, PAWLIK, J.R; Is there a trade-off between reproduction and growth form for two closely related Florida reef sponges?

**09:20 51.5** (DEE) GOFFREDO, S., LASKER, H.R.; Modular Growth of a Gorgonian Coral Generates Predictable Patterns of Colony And Population Growth

**09:40 51.6** (DIZ) LAPI, E., CHADWICK, N. E.; Coral sweeper tentacles as probes to remotely detect competitors

**10:20 51.7** (DEE) LEICHTER, J.J., HELMUTH, B., FISCHER, A.M.; What lies beneath the surface: quantifying complex thermal environments on corals reefs

**10:40 51.8** (DCE) TARRANT, A.M., CORTÉS, J., BEZY, B, JOHANNING, K.J., CHIANG, T.C., VARGAS, J.A.; Identification and expression patterns of nuclear receptors in the coral *Pocillopora damicornis*

**11:00 51.9** (DAB) TRESPALACIOS, D., BEULIG, A.; Coral Luminescent Banding as Environmental Indicator in Bocas del Toro, Panama

**11:20 51.10** (DIZ) QUINN, NJ, KOJIS, BL; Assessing Enhancement Techniques to Increase *Acropora cervicornis* Populations and Increase Fish Biodiversity in Jamaica

### 52 (Room Scotland C) Comparative Evolutionary Morphology I
*Co-chairs: D. Hulsey & E. Hoffman (10:30 am)*

**08:00 52.1** (DSEB) HILL, R.I.; Morphology and locomotor mimicry in ithomiine butterflies (Nymphalidae)

**08:20 52.2** (DVM) MCELROY, EJ, REILLY, SM; The evolutionary relationship between foraging mode and locomotor functional morphology in lizards

**08:40 52.3** (DVM) COLLAR, D.C.*; Testing the bass fishermen’s hypothesis: Does reaching an adaptive peak limit diversification of the feeding apparatus in *Micropterus* (Teleostei: Centrarchidae)?

**09:00 52.4** (DCPB) PAPASTAMATIOUT, Yannis P., LOWE, Christopher G., HOLLAND, Kim N.; Variations in the response of gastric acid secretion during periods of fasting between shark species

**09:20 52.5** (DVM) HULSEY, CD, STREELMAN, JT; Cichlid Pharyngeal Jaw Fusion: Is Suturing the Key to Unparalleled Trophic Divergence?

**10:00 52.6** TODT, C., TYLER, S.; Comparative studies on the pharynx simplex of Acoela

**10:20 52.7** (DIZ) SWEENEY, A., DES MARAIS, D.L.,
W.H., PINSHOW, B.; Carbohydrate absorption in migrating blackcaps, upon arrival and after refeeding, at a stopover in southern Israel

**09:40 49.6 (DCPB)** TRACY, C.R., MCWHORTER, T.J., KORINE, C., PINSHOW, B., KARASOV, W.H.; A mystery solved: how the Egyptian fruit bat absorbs sugar

**50 (Room Sapphire) Digestion and Excretion: Effects of Feeding and Digestion on Metabolism**

*Chair: S. Secor*

**10:20 50.1** ROARK, Alison M., BJORNDAL, Karen A.; Experimentally imposed patterns of food availability and their effects on metabolic rate in Indian stick insects,

*Carausius morosus*

**10:40 50.2 (DIZ)** CURTIS, D.L.*, MCGAW, I.J.; Feeding and digestion in response to low salinity in the Dungeness crab,

*Cancer magister*

**11:00 50.3 (DCE)** HERNANDEZ, R/A, SECOR, S/M, ESPINOZA, R/E; Is a dietary jack of all trades a master of none? Adaptability of gut form and function in an omnivorous lizard.

**11:20 50.4 (DCPB)** BRITT, E.J., HICKS, J.W., BENNETT, A.F.; The energetic consequences of prey specialist and generalist populations of three species of garter snake (*Thamnophis elegans*, *T. couchii* and *T. ordinoides*).

**11:40 50.5 (DCPB)** OTT, BD, SECOR, SM; Postprandial Upregulation of Intestinal Morphology and Function in Python

**51 (Room Scotland A) Coral Reef Biology**

*Co-chairs: N. Chadwick & V. Weis*

**08:00 51.1 (DCE)** RODRIGUEZ-LANETTY, Mauricio, WEIS, Virginia M, PHILLIPS, Wendy S; Transcriptome analysis of a cnidarian dinoflagellate mutualism reveals complex modulation of host gene expression

**08:20 51.2 (DCPB)** BERTIN, M.J., POMPONI, S.A., ELLINGTON, W.R.; Creatine and Arginine Kinases are Widespread in the Porifera

**BAN, A., JOHNSEN, S.; Evolving Refractive Index: How Lens Protein Evolution Contributed to High-Resolution Squid Vision**

**10:40 52.8 (DEE)** SISON-MANGUS, MP, BRISCOE, AD; Evolutionary origin of a blue opsin gene duplication in lycaenid butterflies

**11:00 52.9** HOFFMAN, Eric A., GOODisman, Michael A. D.; Genomic analysis of caste differentiation in yellowjacket wasps

**11:20 52.10** MAHLER, L., KEARNEY, M.; The Palatal Dentition in Squamate Reptiles: Morphology, Development, Attachment, and Replacement

**11:40 52.11** EVANS, A.R., WILSON, G.P., JERNVALL, J., FORTELIUS, M.; New methods in 3D tooth shape analysis: a study of form and function in murine and sigmodontine rodents

**53 (Room Scotland B) Regulatory Biology: Comparative Endocrinology**

*Chair: D. Buchholz*

**08:20 53.1 (DCE)** MCCORMICK, Stephen D., O’DEA, Michael F., MOECKEL, Amy M.; Are we missing a mineralocorticoid in fish? Effect of corticoids and receptor inhibitors on salinity tolerance of Atlantic salmon.

**08:40 53.2 (DCE)** NORBECK, L., KITITILSON, J., SHERIDAN, M.A.; Nutritional Regulation of the Somatotropic Axis of Rainbow Trout (*Oncorhynchus mykiss*).

**09:00 53.3 (DCE)** MOORE, Brandon C, COOK, Robert W, CHUNG, Koo Whang, ALVERS, Ashley L, WOODRUFF, Teresa K, GUILLETTE, Louis J; Ovarian Response to Gonadotropin in Alligator Neonates

**09:20 53.4** SEABURY SPRAGUE, R.*, BREUNER, C.W.; Timing of fledging, body condition, and corticosteroid binding globulin in Laysan Albatross
09:40 53.5 (DCE) SILVER, M.R., SOWER, S.A.; Characterization of an ancestral type II GnRH receptor: function and pharmacological profile of the sea lamprey GnRH receptor

10:20 53.6 (DCE) BUCHHOLZ, D.R., PAUL, B.P., SHI, Y.-B.; Gene-specific changes in promoter occupancy by thyroid hormone receptor during frog metamorphosis: Implications for developmental gene regulation

10:40 53.7 (DVM) SERRAT, M.A., LOVEJOY, C.O., KING, D.; Age- and site-specific decline in IGF-I receptor expression and growth plate activity in the mouse hindlimb

11:00 53.8 (DCPB) HYNDMAN, K/A, EVANS, D/H; Endothelin receptors in the killifish, Fundulus heteroclitus, gill

11:20 53.9 CHRISTIANS, Julian K, HOEFLICH, Andreas, KEIGHTLEY, Peter D; Investigation of the causal gene underlying a quantitative trait locus (QTL) contributing to genetic variation in growth

11:40 53.10 (DCE) KAJIMURA, S., AIDA, K., DUAN, C.; Understanding hypoxia-induced gene expression in early development: In vitro and in vivo analysis of HIF-1-regulated zebrafish IGFBP-1 gene expression

54 (Room Ireland A) Bone Form

08:00 54.1 (DVM) DEVLIN, Maureen, LIEBERMAN, Daniel, LEDOUX, Nicole; Estradiol, strain, and periosteal bone growth

08:20 54.2 (DVM) DUMONT, E.R., GROSSE, I.R., COLETTA, C.E.; Applying muscle forces to finite element models of bone: How much modeling precision is necessary?

08:40 54.3 (DEE) FORD, D.K., HOLLIDAY, C.M.; An investigation into the effects of PCB 126 on bone density in turtles

09:00 54.4 (DVM) HORTON, Jaquan M., RANCHES, Gregory, SUMMERS, Adam P.; The morphology, mechanical properties, and composition of the acellular ribs in a teleost fish, Myxoecephalus polyacanthocephalus.


09:40 54.6 VANDEN BROOKS, J.M.; The development of Alligator mississippiensis under varying PO2

10:20 54.7 (DCPB) REESE, Scott A., MOORE, Douglas, ULTSCH, Gordon R., WARREN, Daniel E., JACKSON, Donald C.; Mechanical characteristics of bone change little during anoxic submergence at 3 °C in red-eared slider turtles, Trachemys scripta.

10:40 54.8 (DEDB) ZELDITCH, ML, MYERS, P,

10:40 56.2 (DCPB) VOGEL, S; Bioballistics: The Scaling of Prelaunch Acceleration and Subsequent Trajectories

11:00 56.3 MONEY, N. P., PRINGLE, A., PATEK, S. N., FISCHER, M., STOLZE, J.; Rapid Discharge of Mushroom Spores

11:20 56.4 (DVM) ESSNER, R.L., NAUWELAERTS, S., ROME, L.C.; Forelimb and caudopelvic function during takeoff in Rana pipiens

11:40 56.5 (DVM) JACKSON, B.E., DIAL, K.P.; Allometry of avian flight performance: contribution of legs and wings during maximal burst takeoff and vertical flight

57 (Room Ireland C) Physical Biology and Ecomorphology

08:20 57.1 THOMAS, F.I.M., BADGLEY, B.D., YUND, P.O., GRABOWSKI, R.C.; Linking field measurements of hydrodynamic conditions to the fertilization of the green sea urchin Strongylocentrotus droebachiensis

08:40 57.2 BADGLEY, BD, THOMAS, FIM, YUND, PO; The effects of hydrodynamics on fertilization success in the green sea urchin, Strongylocentrotus droebachiensis.

09:00 57.3 (DIZ) VON DASSOW, M; Influences of flow and feeding on colony organization in a bryozoan

09:20 57.4 AVENI-DEFORGE, Kyle, WETHEY, David S; Fortuna dubia: Byssal function in marine mussel adaptation to seasonal changes in wave energy

09:40 57.5 (DIZ) WOLCOTT, TG, WOLCOTT, DL, KAMYKOWSKI, D, WATERS, L; Plankton mimicry: fake dinoflagellates to help understand real red tides.

10:20 57.6 (DVM) HILLIENUS, Willem/J, MADERSON, Paul/F; DOES PITH STRETCH A FEATHER? Does pith stretch a feather?

10:40 57.7 (DCPB) JOHNSEN, S., KELBER, A., WARRANT, E.J., SWEENEY, A.M., WIDDER, E.A., LEE, R.L.; The color of night: twilight and nocturnal illumination and its effects on color perception

11:00 57.8 KINANE, S., THOMAS, F.I.M.; Bleaching in the coral Porites divaricata: effects of temperature, light, and water motion

11:20 57.9 (DEE) SCHNEIDER, KR, HELMUTH, BST; The effect of intertidal thermal environments on survival and growth: a comparison between an invasive and native mussel species

58 (Room Diamond) Biogeography and Biodiversity

13:00 58.1 WILLIAMS, J. D.*, MCDERMOTT, J. J., BOYKO, C. B.; A world-wide review of hermit crab parasites

13:20 58.2 (DEE) WETHEY, DS, GILMAN, SE,
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<td>11:00</td>
<td>54.9</td>
<td>LUNDRIGAN, BL; Dietary consistency and the canalization of skull growth</td>
<td>ESPINOZA, N.R.*, CIRILO, S.R., HILL, S., BLOB, R.W.; Limb Bone Strain in Jumping Frogs</td>
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<td>54.11</td>
<td>YOUNG, JW, FERNANDEZ, D; Ontogeny of limb bone geometry and bone strength in an arboreal primate (Cebus albifrons)</td>
<td>JACINTO, RD, NAGLE, L, PATEK, SN, SUMMERS, AP; Keeping an open mind: investigating poacher skeletal morphology</td>
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<td>11:00</td>
<td>55.1</td>
<td>CHADWELL, BA*, STANDEN, EM, LAUDER, GV; Dorsal and anal fin function during the C-start escape response in bluegill sunfish.</td>
<td>TYTELL, E.D.; Median fin function in bluegill sunfish, Lepomis macrochirus: Streamwise vortex structure during steady swimming</td>
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<td>11:20</td>
<td>55.2</td>
<td>SCHAEFER, Justin T, KOOB, Thomas J, LONG, JR., John H; Bending mechanics of elasmobranch vertebral columns</td>
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<td>DANOS, N., BRAINERD, E.L.; Biomechanics of the skin during swimming in the American Eel, Anguilla rostrata.</td>
<td>KOROBOV, N, BRAINERD, EL, MADDEN, P, LAUDER, GV; Novel pectoral fin kinematics during steady swimming in a benthic fish, the Longhorn sculpin, Myxocephalus octodecimspinosus</td>
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<td>13:00</td>
<td>59.1</td>
<td>JOHNSON, M. A.; Does Where an Animal Lives Determine Its Behavior? The Role of Microhabitat in Lizard Territoriality</td>
<td>FONTAINE, JOSEPH/J, MARTIN, THOMAS/E; Reproductive responses to experimentally reduced nest predation risk</td>
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<td>13:20</td>
<td>59.2</td>
<td>LEE, DN, TANG-MARTINEZ, Z; of Early Social Environment on the Physical Development of Prairie Voles</td>
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<td>59.3</td>
<td>HELMUTH, BS, HILBISH, TJ; Ecological hindcasting of biogeographic responses to climate change in intertidal ecosystems</td>
<td>SNELL-ROOD, Emilie C; Developmental costs of behavioral plasticity: exploration during oviposition-cue learning in butterflies (Lepidoptera: Pieridae)</td>
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<td>14:00</td>
<td>59.4</td>
<td>NISHIGUCHI, M.K., JONES, B.W.; Population dynamics of sepolid squid-Vibrio mutualism from the Indo-west Pacific</td>
<td>HOLMBERG, R; Immunohistochemistry and 3-D cerebral architecture in species of Asplanchna (Rotifera)</td>
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**55 (Room Ireland B) Hydrodynamics - Locomotion I**

**Chair:** F. Fish & B. Chadwell

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**59 (Room Sapphire) Behavioral Plasticity**

**Chair:** S. MacDougall-Shackleton

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<td>59.1</td>
<td>CHRISTY, J.H., RISSANEN, J.R., BACKWELL, P.R.Y.; A One-day Pause in the Biweekly Courtship Cycle of a Tropical Fiddler Crab Allows Females to Avoid Releasing Larvae During Twilight</td>
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<td>LEE, DN, TANG-MARTINEZ, Z; of Early Social Environment on the Physical Development of Prairie Voles</td>
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**56 (Room Ireland B) Hydrodynamics - Acceleration**

**Chair:** F. Fish & S. Vogel

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**60 (Room Emerald) Comparative Neurobiology**

**Chair:** J. Newcomb

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<td>HOCHBERG, R; Immunohistochemistry and 3-D cerebral architecture in species of Asplanchna (Rotifera)</td>
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13:20 60.2 (DNB) BALTZLEY, MJ, LOHMANN, KJ; Evolution of a neural circuit in sea slugs

13:40 60.3 (DNB) NEWCOMB, J.M.*, KATZ, P.S.; Patterns of neural evolution in nudibranch mollusces: functional divergence of homologous neurons embedded in a common neural network

14:00 60.4 (DNB) TURNER, A.C., DASARI, S., COOPER, R.L.; Influence of the Dopamine and Serotonergic System on Physiology, Development and Behavior of Drosophila melanogaster

14:20 60.5 (DNB) VON DER OHE, C.G., DARIAN-SMITH, C, HELLER, H.C.; Neural Plasticity in Hibernation

14:40 60.6 (DNB) BELANGER, RM, MCDOWELL, KE, MOORE, PA, ZIELINSKI, BS; Reproductive significance and sensory hair morphology of the major chelae of male crayfish Orconectes rusticus

61 (Room Scotland C) Comparative Evolutionary Morphology II
Chair: J. Hanken


13:40 61.2 (DVM) HANKEN, J., GROSS, J.B.; Fate maps evolve, too: neural crest derivation of the bony skull in frogs, revealed by transgenic labeling

14:00 61.3 (DVM) CLAESON*, Kerin M., LUNDBERG, John G.; Micro Catfish Micro CATscans

14:20 61.4 BLACKBURN, D.C.; The effect of miniaturization on skeletal morphology within the African frog family Arthroleptidae

14:40 61.5 MILLER, G., ANGIELCZYK, K.D.; Geometric Morphometric Analysis of Shell Kinesis in Emydine Turtles

62 (Room Ireland A) Flight Aerodynamics II
Co-chairs: S. Swartz & S. Combes

13:00 62.1 (DVM) SWARTZ, S, GALVAO, R, IRIARTE-DIAZ, J, ISRAELI, E, MIDDLETON, K, ROEMER, R; Unique characteristics of aerodynamics of bat flight: evidence from direct visualization of patterns of airflow in the wakes of naturally flying bats

13:20 62.2 (DIZ) COMBES, S.A., DUDLEY, R.; Limits to maximum flight velocity: Pitch control and roll instability in orchid bees during fast, forward flight

13:40 62.3 BUNDLE, M/W, DIAL, K/P; Power requirements of bird flight with additional mass

14:00 62.4 (DVM) BERG, A.M., BIEWENER, A.A.; Differences among Ascending, Level, and Descending Flapping Flight

14:20 62.5 (DCPB) BREWER, Michael/L, CHEVIRON,

13:40 64.2 BROWN, FD, SWALLA, BJ; Germ Cells and Vasa Expression in Ascidians

14:00 64.3 (DEDB) GALIS, F., VAN DOOREN, T.J.M., METZ, J.A.J., WITKAM, A., WIJNAENDTS, L.C.D.; The coordinated patterning of the embryonic axes and the conservation of the seven cervical vertebrae

14:20 64.4 GIRIBET, G., EDGEcombe, G.D., KRISTENSEN, R.M., MARTINDALE, M.Q., SEAVER, E.C., SORENSEN, M.V.; Assembling the Protostome Tree of Life

65 (Room Great Hall West) Complementary to Metamorphosis Symposium
Chair: E. Crespi

13:00 65.1 (DEE) REITZEL, A.M., SULLIVAN, J.C., FINNERTY, J.R.; Metamorphosis in the Life History of a Parasitic Sea Anemone, Edwardsiella lineata

13:20 65.2 EDWARDS, T.M., MOORE, B.C., GUILLETTE, L.J.; Metamorphic Sex Change: Evolutionary Insight for Endocrine Disruption Studies

13:40 65.3 (DCE) MILLER, MF, OKADA, R, ITO, Y, DE GROEF, B, YAMAMOTO, K, DENVER, RJ; Involvement of the corticotropin-releasing factor (CRF) type 2 receptor in CRF-induced thyrotropin release from the tadpole pituitary.

14:00 65.4 (DEE) MCCOY, Krista A, AMICK, Alison M; Metamorphosis and reproductive growth and development

14:20 65.5 (DCE) CRESPI, Erica J, DENVER, Robert J; Conserved and novel functions of leptin in the South African clawed frog (Xenopus laevis)

14:40 65.6 (DCE) BAKER, M.E.; Role of the Environment on the Evolution of Signal Transduction Proteins and Metamorphosis
Altitudinal variation of wing shape in the Andean passerine Zonotrichia capensis

14:40 62.6 (DVM) PADIAN, K., DIAL, K.P.; Was there a "four-winged" transitional stage between dinosaurs and birds?

63 (Room Ireland B) Feeding and Flow II
Chair: P. Wainwright

13:00 63.1 (DVM) CASE, J.E., MARSHALL, C.D.; Using Morphology to Predict Feeding Behavior: A Preliminary Study of Juvenile Red Snapper (Lutjanus campechanus) Feeding

13:20 63.2 (DVM) VAN WASSENBERGH, S, HERREL, A, ADRIAENS, D, AERTS, P; Terrestrial feeding in the eel catfish, Channallabes apus

13:40 63.3 MARKEY, M. J., MAIN, R. P., MARSHALL, C. R.; In vivo cranial suture function and suture morphology in the extant fish Polypterus

14:00 63.4 (DVM) DAY, S W, HIGHAM, T E, WAINWRIGHT, P C; THE RELATION OF SUCTION PRESSURE AND FLUID SPEED DURING FEEDING IN LARGEMOUTH BASS

14:20 63.5 (DVM) FRANCIS, A.W.; Phylogeny and Feeding Biomechanics of Pleuronectiform Fishes

14:40 63.6 (DCPB) RICE, Aaron N.; Evolution of Coordination in Fish Feeding: The Intersection of Functional Morphology and Ecology

64 (Room Great Hall East) Complementary to Mesoderm Symposium
Chair: G. Giribet

13:20 64.1 (DEDB) LIVINGSTON, BT, HARMON, M; Development of the skeletogenic mesoderm in the Ophiuroid Ophiocoma wendtii