

**S2-2 (Room Great Hall West) Symposium: Zebrafish in Comparative Context**

- 08:00 S2-2.1** (*DEDB*) MABEE, P.M.; Integrating CToL-related studies with available phenotype and genomics databases for the zebrafish
- 08:30 S2-2.2** MCCUNE, A.R.; Insights from natural variation in *Danio rerio*
- 09:00 S2-2.3** SCHILLING, TF; Craniofacial development and evolution in gnathostomes
- 09:30 S2-2.4** (*DEDB*) HERNANDEZ, LP; Zebrafish: A model system for investigating the generation of novel feeding mechanisms
- 10:30 S2-2.5** KIMMEL, CHARLES B., MCGUIGAN, KATRINA, ULLMANN, BONNIE, CURREY, MARK, CRESKO, WILLIAM A.; Dorsal-ventral Patterning of Facial Bone Morphology
- 11:00 S2-2.6** (*DEDB*) STOCK, D.W.; Comparative studies of tooth development in teleost fishes
- 11:30 S2-2.7** PARICHY, D.M.; Evolutionary genetics of danio pigment pattern development

**S3-2 (Room Great Hall East) Symposium: Biomechanics and Neuromuscular Control**

- 08:00 S3-2.1** NICHOLS, T. Richard; Differing Roles of Length and Force Feedback in the Regulation of Motor Coordination
- 08:30 S3-2.2** (*DVM*) BIEWENER, Andrew A.; Neuromuscular dynamics: passive versus active control of locomotion and stability.
- 09:00 S3-2.3** (*DCPB*) AHN, Anna N; Translating a Neural Signal into a Mechanical Output
- 09:30 S3-2.4** (*DVM*) AERTS, P; Locomotor performance and strategies in frogs: a simple modelling approach
- 10:30 S3-2.5** (*DNB*) NISHIKAWA, KC, LAPPIN, AK, MONROY, JA, PILARSKI, JQ, PIEROTTI, DJ; Neuromechanics of elastic energy storage and recovery during ballistic movements
- 11:00 S3-2.6** (*DCPB*) FULL, R.J.; Principles of Neuromechanics: Integration of Experiments, Mathematical and Physical Models
- 11:30 S3-2.7** QUINN, R.D., RITZMANN, R.E., CHIEL, H.J., VAIDYANATHAN, R.; Neuromechanics of Biorobots

**S4 (Room Scotland B) Symposium: Integrating Function over Marine Life Cycles**

- 08:00 S4.1** (*DIZ*) PODOLSKY, R.D., MORAN, A.L.; Functional links and carryover effects across life cycles
- 08:30 S4.2** PEARSON, GARETH A, SERRAO, ESTER A; REVISITING SYNCHRONOUS SPAWNING IN SEAWEEDS IS IT JUST ABOUT SEX?

- 13:30 S5-1.2** BURTON, Patrick M, PANG, Kevin, KRONE, Cassandra, MARTINDALE, Mark, FINNERTY, John; An Endodermal Origin of Mesoderm
- 14:00 S5-1.3** KINGSLEY, Evan P., RABINOWITZ, Jeremy, LAMBERT, J. David; A Nanos ortholog is required for endomesoderm specification in the snail *Ilyanassa*
- 14:30 S5-1.4** (*DDCB*) PRICE, Alivia L., PATEL, Nipam H.; Mesoderm development in arthropods: a view from crustaceans

**S6-1 (Room Emerald) Symposium: Recent Developments in Neurobiology**

- 13:00 S6-1.1** GILLETTE, Rhanor, YAFREMAVA, Liudmila; Evolution and Function in Serotonergic Systems
- 13:00 S6-1.1B** YAFREMAVA, Liudmila, GILLETTE, Rhanor; Multiplexed function in Serotonergic Neurons of Gastropod Molluscs
- 14:00 S6-1.2B** MOROZ, Leonid; "What is a Neuron from a Genomic Standpoint? Polyphyletic Origin and Natural System of Neurons
- 14:00 S6-1.2** LOVELL, P.J., KOHN, A.B., MOROZ, L.L.; Molluscan neurites grow into the genomic era: Insights from *Aplysia* transcriptome

**09:00 S4.3** YUND, P.O., JOHNSON, S.L., CONNOLLY, L.E.; Multiple paternity and subsequent fusion/rejection interactions in a colonial ascidian

**09:30 S4.4** (DIZ) PHILLIPS, N.E., SHIMA, J.S.; Recruitment of marine organisms around Wellington, New Zealand: a model natural system to examine causes and consequences of variability in larval quality in mussels and reef fish

**10:30 S4.5** THORNER, C.S.; Functional properties of algal life cycles

**11:00 S4.6** GIMÉNEZ, L; Functional links among life phases and the consequences for individual performance in decapod crustaceans

**13:00 S4.7** SPONAUGLE, S., GRORUD-COLVERT, K.; Influence of early life history traits on recruitment success and early survival in a coral reef fish

**13:30 S4.8** (DIZ) EMLET, R.B.; Functional and ecological limits on size at metamorphosis of marine invertebrates

**14:00 S4.9** (DIZ) WENDT, D.E., JOHNSON, C.H.; Availability of dissolved organic matter (DOM) reduces carryover performance consequences for the marine bryozoan *Bugula neritina*

**14:30 S4.10** MARSHALL, D.J.; Transgenerational Offspring Size Effects in Marine Invertebrates

**S5-1 (Room Great Hall East) Symposium: Movers and Shakers: The Evolution and Development of Mesoderm**

**13:00 S5-1.1** (DEDB) DEGNAN, BM, ADAMSKA, M; Pre-mesoderm: the expression of Wnts during sponge gastrulation and their ancestral role in metazoan development