S5-2 (Room Great Hall East) Symposium: Movers and Shakers: The Evolution and Development of Mesoderm

08:30 S5-2.1 DUBOC, V., RÖTTINGER, E., LAPRAZ, F., BESNARDEAU, L., LEPAGE, T.; Role of Nodal in establishment of sea urchin larva body plan

09:00 S5-2.2 HINMAN, Veronica, F, DAVIDSON, Eric, H; Evolution of Mesoderm Specification in Echinoderms: Gene Regulatory Network Architectural Reorganization Across Immense Periods of Evolutionary Time

09:30 S5-2.3 (DEDB) DAVIDSON, Brad; Ascidian mesoderm specification and the emergence of the chordate body plan

10:30 S5-2.4 XAVIER-NETO, Jose, SIMôES-COSTA, Marcos S: The evolutionary origins of cardiac chambers

11:00 S5-2.5 (DEDB) SHOOK, David, KELLER, Ray; Evolution of Vertebrate Mesoderm Morphogenesis

11:30 S5-2.6 HEASMAN, Janet, TAO, Qinghua, YOKOTA, Chika, KOFRON, Matt, LIN, Xinhua; The canonical Wnt pathway and axis formation in *Xenopus laevis*

S6-2 (Room Emerald) Symposium: Recent Developments in Neurobiology

08:00 S6-2.1B (DNB) CAIN, Shaun D., CHRISTIE, Andrew E.; Distribution of NOS-like immunoreactivity within the Nudibranchia

08:00 S6-2.1 (DNB) MURRAY, JA; Advances in the neural bases of orientation & navigation

09:00 S6-2.2B TUBLITZ, NJ; Mechanisms underlying peptide mediated neuropasticity: A spineless approach in moths, flies and cephalopods.


10:30 S6-2.3B LOWE, CJ, ARONOWICZ, J, TERASAKI, M, KIRCHNER, M, GERHART, J; Hemichordate development and the evolution of chordate nervous system

10:30 S6-2.3 ARONOWICZ, J., LOWE, C.J.; The midbrain-hindbrain gene expression profile in *Saccoglossus kowalewskii*

S7-1 (Room Great Hall West) Symposium: Metamorphosis: A Multi-Kingdom Approach

08:00 S7-1.1 (DEDB) BISHOP, C.D., PECHENIK, J, HADFIELD, M.G.; Metamorphosis: under stimulatory or inhibitory control?

08:30 S7-1.2 DEGNAN, S.M., DEGNAN, B.M.; The origin of the metazoan biphasic life cycle: new insights
from an ancient phylum.

**09:00 S7-1.3** HE, Y, TANG, R, HAO, Y, STEVENS, R.D., PEI, Z-M; Nitric Oxide Represses Arabidopsis Flowering

**09:30 S7-1.4** GEORGIOU, C.D.; Sclerotial morphogenesis in fungi is induced by oxidative stress

**10:30 S7-1.5** SANTELICES, B., ALVARADO, J.L.; Applying the concept of metamorphosis to the crustose-to-erect thallus transition of macroalgae

**11:00 S7-1.6** HODIN, Jason; Expanding networks: a hypothesis for the evolution of metamorphosis

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**S8-1 (Room Scotland A) Symposium: Genomic and Proteomic Approaches in Crustacean Biology**

**13:00 S8-1.1** CHAPMAN, Robert, JENNY, Matt; EcoGenomics: analysis of complex systems

**13:30 S8-1.2** COLBOURNE, J.K., LINDQUIST, E., BAUER, D., BROKSTEIN, P., THOMAS, W.K., ANDREWS, J.; Gene discovery in *Daphnia* by expressed sequence tag sequencing

**14:00 S8-1.3** (DCPB) TOWLE, David W.; Functional Genomics of Environmental Adaptations in Marine Crustaceans

**14:30 S8-1.4** (DCPB) STILLMAN, Jonathon H, TERANISHI, Kristen S; Transcriptome changes during thermal acclimation, acclimatization, and stress in porcelain crabs

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**S9-1 (Room Scotland B) Symposium: EcoPhysiology and Conservation: The Contributions of Energetics**

**13:00 S9-1.1** GOLDSTEIN, J. L., HEPPELL, S., BRAULT, S., LUTCAVAGE, M. E.; Reproductive Status and Body Condition of Atlantic Bluefin Tuna in the Gulf of Maine, 2000-02: Conservation Implications