



**Cover:** Confocal microscopy projection image of a *Ciona* tail bud embryo. Wheat germ agglutinin staining (green) demonstrates the architecture of the ascidian embryonic extracellular matrix (ECM), which presents in two distinct layers. The outer layer localizes at the body surface of the epithelium, whereas the inner one is the sheath surrounding the notochord. DAPI staining (blue) indicates cell nuclei. On page 1383, Wei et al. reveal the architecture, molecular composition and dynamic expression profile of the ECM in ascidian embryos and larvae, providing clues for understanding the function of the ECM in chordate development. Image provided by Bo Dong and licensed under a Creative Commons Attribution 4.0 International licence.

## RESEARCH ARTICLES

- 1257** Phosphorylation of SNAP-23 regulates its dynamic membrane association during mast cell exocytosis  
**Naskar, P. and Puri, N.**
- 1270** Dlx3b/4b is required for early-born but not later-forming sensory hair cells during zebrafish inner ear development  
**Schwarzer, S., Spieß, S., Brand, M. and Hans, S.**
- 1279** EsGLUT4 and CHHBP are involved in the regulation of glucose homeostasis in the crustacean *Eriocheir sinensis*  
**Li, R., Tian, J.-Z., Wang, M.-R., Zhu, L.-N. and Sun, J.-S.**
- 1290** The probability of wing damage in the dragonfly *Sympetrum vulgatum* (Anisoptera: Libellulidae): a field study  
**Rajabi, H., Schroeter, V., Eshghi, S. and Gorb, S. N.**
- 1294** Fat-containing cells are eliminated during *Dictyostelium* development  
**Kornke, J. M. and Maniak, M.**
- 1305** Standard metabolic rate predicts growth trajectory of juvenile Chinese crucian carp (*Carassius auratus*) under changing food availability  
**Zeng, L.-Q., Zhang, A.-J., Killen, S. S., Cao, Z.-D., Wang, Y.-X. and Fu, S.-J.**
- 1310** Targeting long non-coding RNA DANCR inhibits triple negative breast cancer progression  
**Sha, S., Yuan, D., Liu, Y., Han, B. and Zhong, N.**
- 1317** Metabolomics reveals variation and correlation among different tissues of olive (*Olea europaea* L.)  
**Guodong, R., Xiaoxia, L., Weiwei, Z., Wenjun, W. and Jianguo, Z.**
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**Zhang, Y., Yang, Y., Zhu, Z. and Ou, G.**
- 1329** The effects of the exopolysaccharide and growth rate on the morphogenesis of the terrestrial filamentous cyanobacterium *Nostoc flagelliforme*  
**Cui, L., Xu, H., Zhu, Z. and Gao, X.**
- 1336** The expression of *Ldh-c* in the skeletal muscle of plateau pika (*Ochotona curzoniae*) enhances adaptation to a hypoxic environment  
**An, Z. F., Wei, D. B., Wei, L., Wang, Y. and Wei, L. N.**
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**Poole, A. R., Vicino, I., Adachi, H., Yu, Y.-T. and Hebert, M. D.**
- 1355** PQN-75 is expressed in the pharyngeal gland cells of *Caenorhabditis elegans* and is dispensable for germline development  
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- 1364** Distinct intestinal adaptation for vitamin B12 and bile acid absorption revealed in a new mouse model of massive ileocecal resection  
**Matsumoto, Y., Mochizuki, W., Akiyama, S., Matsumoto, T., Nozaki, K., Watanabe, M. and Nakamura, T.**
- 1375** Differential expression of sirtuin 2 and adipocyte maturation restriction: an adaptation process during hypoxia in fish  
**Ekambaram, P. and Parasuraman, P.**
- 1383** Architectural delineation and molecular identification of extracellular matrix in ascidian embryos and larvae  
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## METHODS & TECHNIQUES

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- 1396** The utility of accelerometers to predict stroke rate in captive fur seals and sea lions  
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## CORRECTION

- 1401** CORRECTION: Surviving murine experimental sepsis affects the function and morphology of the inner ear  
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