

Special Issue

Neuropeptides and Endocrine Regulations in Insects and Crustaceans: 2nd Edition

Message from the Guest Editor

The past decade has seen exponential increase in availability of next generation sequencing from multiple arthropod species, enabling a rapid rate of endocrine factors discovery, including ligands, their putative cognate receptors and their putative regulatory pathways. While sequences of endocrine factors are readily available in multiple pancrustacea species, their functions remain elusive, given their pleiotropic roles and lineage-specific family expansions, which lead to neofunctionalization across lineages. A key example includes the crustacean hyperglycemic hormone (CHH) superfamily of neuropeptides which is expanded in decapods. The CHH receptors are a longstanding key gap in our understanding. Insulin-like peptides (ILPs), as another example, have up to eight members in insects with yet unresolved functions for the most part. This special issue accepts contributions that advance our knowledge of neuroendocrine and endocrine regulation in insects and crustaceans, with the aim to provide synthesis of knowledge towards a better understanding of the key gaps and how to address them.

Guest Editor

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