

Invertebrate Zoology A Functional Evolutionary Approach

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this thorough revision of invertebrate zoology provides a survey by groups emphasizing adaptive morphology and physiology while covering anatomical ground plans and basic developmental patterns the most modern evolutionary research is included

indexes the world's zoological and animal science literature covering all research from biochemistry to veterinary medicine the database provides a collection of references from over 4 500 international serial publications plus books meetings reviews and other non serial literature from over 100 countries it is the oldest continuing database of animal biology indexing literature published from 1864 to the present zoological record has long been recognized as the unofficial register for taxonomy and systematics but other topics in animal biology are also covered

construction of comprehensive and detailed brain regions neuroanatomical connections matrices macro connectomes is necessary to

understand how the nervous system is organized and to elucidate how its different parts interact macro connectomes also are the structural foundation of any finer granularity approaches at the neuron classes and types meso connectomes or individual neuron micro connectomes levels the advent of novel neuroanatomical methods as well as combinations of classic techniques form the basis of several large scale projects with the ultimate goal of producing publicly available connectomes at different levels a parallel approach that of systematic and comprehensive collation of connectivity data from the published literature and from publicly accessible neuroinformatics platforms has produced macro connectomes of different parts of the central nervous system cns in several mammalian species the emergence of these public platforms that allow for the manipulation of rich connectivity data sets and enable the construction of cns macro connectomes in different species may have significant and long lasting implications moreover when these efforts are leveraged by novel statistical methods they may influence our way of thinking about the brain hence the present brain region centric paradigm may be challenged by a network centric one ultimately these projects will provide the information and knowledge for understanding how different neuronal parts communicate and function developing novel approaches to diseases and disorders and facilitating translational efforts in neurosciences with this research topic we bring together the current state of macro connectome related projects including the large scale production of thousands of publicly available neuronatomical experiments databases with tens of thousands of connectivity records collated from the published literature and the newest methods for displaying and analyzing this information this topic also includes a wide range of challenges and how they are addressed from platforms designed to integrate connectivity data across different sources species and cns levels of organization to languages specifically designed to use these data in models at different scales of resolution to efforts of 3d reconstruction and data integration and to approaches for extraction and representation of this knowledge finally we address the present state of different efforts of meso connectomes construction and of computational modeling in the context of the information provided by macro connectomes

a separate section of the journal molecular and developmental evolution is devoted to experimental approaches to evolution and development

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