

Skeletal Muscle Structure Function And Plasticity

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Structure, function, and plasticity of hippocampal dentate gyrus
microcircuits
Viral Membrane Proteins: Structure, Function, and Drug Design
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this book discusses voltage gated ion channels and their importance in drug discovery and development the book includes reviews of the channel genome the physiological bases of targeting ion channels in disease the unique technologies developed for ion channel drug discovery and the increasingly important role of ion channel screening in cardiac risk assessment it provides an important reference for research scientists and drug

discovery companies

the hippocampus mediates several higher brain functions such as learning memory and spatial coding the input region of the hippocampus the dentate gyrus plays a critical role in these processes several lines of evidence suggest that the dentate gyrus acts as a preprocessor of incoming information preparing it for subsequent processing in ca3 for example the dentate gyrus converts input from the entorhinal cortex where cells have multiple spatial fields into the spatially more specific place cell activity characteristic of the ca3 region furthermore the dentate gyrus is involved in pattern separation transforming relatively similar input patterns into substantially different output patterns finally the dentate gyrus produces a very sparse coding scheme in which only a very small fraction of neurons are active at any one time how are these unique functions implemented at the level of cells and synapses dentate gyrus granule cells receive excitatory neuron input from the entorhinal cortex and send excitatory output to the hippocampal ca3 region via the mossy fibers furthermore several types of gabaergic interneurons are present in this region providing inhibitory control over granule cell activity via feedback and feedforward inhibition additionally hilar mossy cells mediate an excitatory loop receiving powerful input from a small number of granule cells and providing highly distributed excitatory output to a large number of granule cells finally the dentate gyrus is one of the few brain regions exhibiting adult neurogenesis thus new neurons are generated and functionally integrated throughout life how these specific cellular and synaptic properties contribute to higher brain functions remains unclear one way to understand these properties of the dentate gyrus is to try to integrate experimental data into models following the famous hopfield quote build it and you understand it however when trying this one faces two major challenges first hard quantitative data about cellular properties structural connectivity and functional properties of synapses are lacking second the number of individual neurons and synapses to be represented in the model is huge for example the dentate gyrus contains 1 million granule cells in rodents and 10 million in humans thus full scale models will be complex and computationally demanding in this frontiers research topic we collect important information about cells synapses and microcircuit elements of the dentate gyrus we have put together a combination of original research articles review articles and a methods article we hope that the collected information will be useful for both experimentalists and modelers we also hope that the papers will be interesting beyond the small world of dentology i e for scientists working on other brain areas ideally the dentate gyrus may serve as a blueprint helping neuroscientists to define strategies to analyze network organization of other brain regions

in viral membrane proteins structure function and drug design wolfgang fischer summarizes the current structural and functional knowledge of membrane proteins encoded by viruses in addition contributors to the book address questions about proteins as potential drug targets the range of information covered includes signal proteins ion channels and fusion proteins this book has a place in the libraries of researchers and scientists in a wide array of fields including protein chemistry molecular biophysics pharmaceutical science and research bioanotechnology molecular biology and biochemistry

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