
Electroreception

electroreception in monotremes - journal of experimental ... - electroreception in monotremes 1449 behaviour a striking reflex, in the form of a head saccade elicited by a square-wave electrical stimulus, can be used to investigate both directionality and threshold. platypus can detect stimuli that generate field strengths as low as $20\mu\text{Vcm}^{-1}$ (manger and pettigrew, 1996). these behavioural studies ... **electroreception - rhodes university** - electroreception is the biological ability to perceive electrical impulses. the primary functions of electroreception are object location (electrolocation), which is important for feeding and navigation in turbid or dark environments, orientation, and communication (electrocommunication), which is often species specific. **james s. albert and william g.r. crampton** - electroreception is a sensory modality entirely unfamiliar to humans and other terrestrial vertebrates. like the sense of hearing, electrosensory information is organized using timing and **electroreception and the behaviour of mormyrid electric fish** - types are involved in electroreception: the tuberous high-frequency-tuned, phasic receptors, called mormyromasts and 'knollenorgans', both of which respond to the fish's own eod; and the ampullary receptors which primarily respond to d.c. field components which emanate from many aquatic organisms 4. **evolution of electroreception - cell** - electroreception t. h. bullock, r. g. northcutt and d. a. bodznick recent evidence shows that the taxonomic distribution of electroreception is, ~ greater than was previously thought. this knowledge permits new speculation about the evolution of this sense, a topic already discussed in limited aspects by lissman .s and **electric field properties electroreception evolution ...** - electroreception • electric field properties • electroreception evolution • bioelectric field production • electrolocation • electrocommunication. electric field • generated by separation of positive (electron deficit) and negative charges (e.g. a dipole such as a battery) ... **electroreception in sharks - journal of experimental biology** - the 'enhanced electroreception' hypothesis proposes that the sphyrnid head morphology provides a greater electrosensory search area compared with similar sized carcharhinid sharks (kajiura, 2001a). the consequent greater head area is accompanied by a greater number of electrosensory pores, which provide sphyrnids with a pore **electroreception and communication in fishes** - know electroreception from all classes of lower, aquatic vertebrates (fishes and some amphibians), but not invertebrates. electroreception is equally not present in terrestrial vertebrates nor their aquatic descendants; that is, reptiles, birds, and mammals, with a recently discovered exception among the primitive, egg-laying

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