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## Speed Animals Specialization Running Leaping Howell

**functional tradeoffs in specialization for fighting versus ...** - at high running speed or in animals with heavy limbs, such as hominids, the internal work can constitute a significant portion of the total mechanical work of running (cavagna and kaneko, 1977; fedak et al. 1982; willems et al. 1995). **functional trade-offs in the limb bones of dogs selected ...** - selection for high-speed running is associated with the evolution of relatively stiff, brittle limb bones, whereas ... functional trade-offs in the limb bones of dogs selected for running versus fighting t. j. kemp1, ... failure than the bones of animals specialized for running. obviously, specialization for fighting cannot be driven as far **a field study of the effects of incline on the escape ...** - of a bipedal lizard, callisaurus draconoides duncan j. irschick\* bruce c. jayne ... native is that animals use only the minimal speed needed to escape. in addition, few studies have examined whether the ... on its toes are a morphological specialization that enhances running speed on loose sand (carothers 1986). irschick and jayne ... **isprawl: design and tuning for high-speed autonomous open ...** - • limb specialization in which the rear legs primarily ac- ... is seen in many running animals [8]. ... to use a single high-speed electric motor as the primary actuation source. for large robots, the actuator energy can be stored elastically and periodically released, as in the case of the ... **functional trade-offs in the limb muscles of dogs selected ...** - consistent with the hypothesis that specialization for rapid or economical running can limit fighting performance and vice versa. we suggest that ... leads to the expectation that animals specialized for high speed running will have relatively less muscle mass in their distal limbs (hildebrand & hurley, 1985; steudel, **chapter 32 the internal environment of animals ...** - top speed recorded for a running arthropod. speedy sprinting minimizes the time that the ant is exposed to the sun. thus, ... cells facilitates specialization. for example, a hard outer cover - ... publishing services ® **chapter 32 the internal environment of animals: ... the effect of leg specialization in a biomimetic hexapedal ...** - the effect of leg specialization in a biomimetic hexapedal running robot ... animals are the current gold standard of locomotion ability. their ability to navigate rough terrain is unmatched by their man- ... speed at a single fixed frequency. the robot also has servo motors **vertical leaping mechanics of the lesser egyptian jerboa ...** - reveal specialization for maneuverability rather than elastic energy storage." *frontiers in zoology* 14 (1) (july 3). doi:10.1186/ ... running, turning, and leaping vertically as ... both of these animals are able to sustain high speed locomotion over long time **the evolution of cost efficient swimming in marine mammals ...** - the evolution of cost efficient swimming in marine mammals: limits to energetic optimization terrie m. williams department of biology, earth and marine science building, a316, university of california, santa cruz, ca 95064, usa ... locomotor costs of extant mammals varying in degree of aquatic specialization. the results indicate that **thermal dependence of sprint performance of the lizard ...** - thermal dependence of sprint performance of the lizard *sceloporus occidentalis* by richard l. marsh department of biology, northeastern university, boston, ma 021 15, usa ... useful group of animals in which to examine the thermal effects on performance. ... high-speed running, and also for their ecological significance. the existence of an **locomotion in the north american mink, a semi-aquatic mammal.** - locomotion in the north american mink, a semi-aquatic mammal. i. swimming energetics and body drag ...  $v_{O_2}$  increased curvilinearly with speed for minks swimming against a current in a water flume. similarly, body drag ... or means of locomotion for many semi-aquatic animals, with alternate environments **londei t. 2000. the cheetah (acinonyx jubatus) dewclaw ...** - dewclaw in the cheetah: a strong hook to stop running animals by using the energy of the victim itself. however, this would hardly be an explanation for the rather large dewclaw in the puma. **anatomical adaptations for cursorial locomotion** - anatomical adaptations for cursorial locomotion and impact of diet (designed for running web site) ... running success is ultimately about speed (catching prey & escaping predators). speed is ... (joint support, secure surface-contact). anatomical specialization has evolved to include different functional roles for thoracic and pelvic limbs. **1. oryx 2. kudu 3. duiker 4. steenbok 5. springbok** - the way land and animals are managed determines the future of all ecosystems. the ... running to help increase speed. tear marks distinctive black tear stripes ... adaptations to facilitate a specialization for speed. speed consists of the distance one

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