
Cilia Model Organisms Intraflagellar Transport

intraflagellar transport and cilia-dependent renal disease ... - model of polycystic kidney disease (pkd) affected assembly ... organisms. recent research has changed this, demonstrating ... 2004 intraflagellar transport and cilia-dependent renal disease 2529. composed of nine triplet microtubules cross-linked into a barrel (20,21). the basal body is also known as the centriole, which **c11orf70 mutations disrupting the intraflagellar transport ...** - tory cilia, a hallmark of the axonemal dynein assembly co-chaperones. using model organisms, we show that c11orf70 orthologs perform a conserved dynein assembly function and are present in both the cytoplasm and in cilia. furthermore, ciliary abundance of this protein is detergent sensitive and dependent on continued ift traf- **getting to the heart of intraflagellar transport models** - intraflagellar transport (ift), the bi-directional movement of 'trains' composed of protein complexes found between axoneme microtubules and the flagellum membrane. although extensive information about ift components and their mode of action were discovered in the green algae *chlamydomonas reinhardtii*, other model organisms have **intraflagellar transport gene expression associated with ...** - intraflagellar transport gene expression associated with short cilia in smoking and copd justina hessel1, ... and alterations in ift lead to short cilia in model organisms, we also hypothesized that smoking induces changes in the expression of ift-related genes in the airway ... of intraflagellar transport genes in the human airway epithelium **review trends in cell biology vol.12 no.12 december 2002 ...** - the assembly of motile and sensory cilia in many organisms including mice [7]. the outward, ... this has led to new insights into the role of cilia in intraflagellar transport involves the movement of large protein particles along ... model of intraflagellar transport (ift). intraflagellar transport involves the movement of **intraflagellar transport: it's not just for cilia anymore** - underlying the ift process in the cilia and flagella of various organisms has led to an expanding literature on the role of cilia in disease [2-4] these diseases have been ... the model that presents itself (figure 1), there-fore, is one in which ift20 accompanies golgi-derived ... intraflagellar transport: it's not just for cilia anymore ... **chlamydomonas basal bodies as flagella organizing centers** - intraflagellar transport (ift) machinery, a microtubule-based motility that is required for the assembly of most cilia. numerous model organisms are utilized to study the cell biology of cilia and to elucidate the molecular basis of cilia-related disease. here, we will focus on *c. reinhardtii*, a unicellular green alga, **chapter 83 the role of intraflagellar transport in the ...** - the role of intraflagellar transport ... elongation, or function of cilia in all organisms investigated (cole et al. 1998; pa-zour et al. 2002). thus, ift is absolutely required for ciliogenesis and maintenance. ... components involved in ift as well as the comparability of model organisms in studying ciliogenesis and cilia maintenance. **cilia in vertebrate development and disease** - through the combined study of model organisms, cell biology, ... cilia, ift, signaling introduction once considered to be vestigial organelles, cilia are microtubule- ... delineated a dynamic process of intraflagellar transport (ift) that is responsible for the transport of cytoplasmic proteins along the **intraflagellar transport at a glance reinhardtii limin hao ...** - intraflagellar transport at a glance limin hao and jonathan m. scholey* molecular and cellular biology, university of ... of cilia and flagella by contributing to cell motility, sensory perception and cilium- ... model for the mechanism of ift ift is proposed to occur in six phases (pedersen et al., 2008). ... **the primary cilium as the cell's antenna: signaling at a ...** - the primary cilium as the cell's antenna: signaling at a sensory organelle ... well characterized in model organisms. cilia are the sites at which the vanilloid family of tran- ... consistent with this model, complete loss of primary cilia in the mouse kidney also produces cysts (35). **cilium-generated signaling and cilia-related disorders** - cilium-generated signaling and cilia-related ... (intraflagellar transport: ift). ... homologues of two of the remaining genes are present in basal bodies/cilia of model organisms. here we briefly **intraflagellar transport protein 172 is essential for ...** - cilia outgrowth in cells of the neuroepithelium is initiated but the axonemes are ... we propose a model suggesting that forebrain and mid-hindbrain growth and ap patterning depends on the early function of ift172 at gastrulation. our data suggest that the formation and ... ift172 protein is well conserved among different organisms (pedersen ... **6 photoreceptors and intraflagellar transport** - cilia, flagella, and modified sensory cilia such as photoreceptor outer ... studies is a large number of diverse model systems. specifically within ... over the last decade, intraflagellar ...

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