
Phenotypic Plasticity Cuticular Hydrocarbons Herbivorous

adaptive dynamics of cuticular hydrocarbons in drosophila - cuticular hydrocarbons (chcs) are hydrophobic compounds deposited on the arthropod cuticle that are of functional significance with respect to stress tolerance, social interactions and mating dynamics. **short communication phenotypic plasticity in sexual ...** - the first study showing adaptive phenotypic plasticity in a moth sex pheromone and suggests that behavioural differentiation may precede genetic divergence in the sexual signals of moths. **genotype-by-environment interactions for cuticular ...** - of phenotypic plasticity varies between genotypes and results in crossover in this example, where the ranked order of genotypes changes between environments. (c) g 9 e interaction without ecological crossover. **genotype-by-environment interactions and sexual selection** - 2 abstract genotype-by-environment interactions (g x es) describe genetic variation for phenotypic plasticity, such that the relative performance of genotypes varies across environments. **copied with the climate: cuticular hydrocarbon acclimation ...** - phenotypic plasticity, microrheology, viscosity introduction climate change is predicted to raise the global mean temperature, increase temperature fluctuations, make weather events such as heat waves or drought events more common, and change the global distribution of water availability and precipitation (coumou and rahmstorf, 2012; fung et al., 2011). therefore, the effects of climatic factors ... **rapid desiccation hardening changes the cuticular ...** - phenotypic plasticity acute stress response the success of insects in terrestrial environments is due in large part to their ability to resist desiccation stress. **a model-based analysis of chemical and temporal patterns ...** - male cuticular hydrocarbon expression is a dynamic trait influenced by light and time of day; since abundant hydrocarbons affect male sexual behavior, males may present different pheromonal ... **copied with climate: cuticular hydrocarbon acclimation of ...** - cuticular hydrocarbon acclimation, desiccation resistance, drought survival, phenotypic plasticity, microrheology, viscosity journal of experimental biology • accepted manuscript **male-derived cuticular hydrocarbons signal sperm ...** - male-derived cuticular hydrocarbons signal sperm competition intensity and affect ejaculate expenditure in crickets melissa l. thomas* and leigh w. simmons **research open access ecology and morphological variations ...** - analysis of cuticular hydrocarbons [8], isoenzymes [9], random amplified polymorphic dna [10], sequences of the mitochondrial cytochrome b gene [5] and microsat- **functional ecology adaptive maternal plasticity in ...** - song and cuticular hydrocarbons (bailey 2011). these examples illustrate plasticity in premating choice, but females could also adjust their preferences for males or **sexual selection and population divergence i. the ...** - cuticular hydrocarbons are long-chain waxy molecules expressed on the surface cuticle of most insects (tregenza and wedell 1997), and chc profiles appear to be sexually selected in both sexes of t. oceanicus (thomas and simmons 2009, 2010). **genetic variance in female condition predicts indirect ...** - cuticular hydrocarbons (chcs), a display trait that is an important target of mate choice. several chcs in males exhibited significant iges, and iges were inducible on both males reared in the labora- tory and on field-caught individuals. a vector describing genetic variance in multiple chcs in females was found to be almost identical to a vector describing indirect genetic variance in male ...

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