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## Adaptive sensorimotor control of walking in fruit flies and snow flies

In Part I of my talk, I will show that descending signals from the Drosophila brain predictively inhibit leg proprioceptor axons during walking. Predictively suppressing expected proprioceptive feedback caused by self-generated movement increases sensitivity to unexpected external perturbations. C + 60 SPSL M9+BJ HI: MG B: BDP DA GC8 C1=: HCDL NZChionea[R6C6I K: D; 1=: +68> 8]) DG =L : HCSL MEG H CI : K9: C8: 1=61 HCDL HE6C BDDGPC6I: 9 L 6AeC < 7: =6KDG6Iinternal body temperatures of -10° C.

