**Title**:

Authors: *Presenting author: (person who registers)*

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**Abstract:** max 400 words

**EXAMPLE:**

**Hedgehog signaling regulates ciliary transport of odorant receptors**

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**Abstract:**

Hedgehog (Hh) signaling is a key regulatory pathway during development. However, the role of Hh and the primary cilia is less understood in the adult nervous system.

Here, we present that Drosophila Hh signaling regulates the odorant response.

Knock down experiments show that Hh, Smoothened and the kinesin like protein Cos2 is required for odorant receptor transport to and within the cilium.

We show that that Cos2 and its function as motor protein is required for the transport of odorant receptors to the distal cilium. In addition, we show that IFT-B transport odorant receptors in a parallel Hh independent path.

Thus, Hh signaling regulate neuron activity by controlling the localization of receptors within the cilium.