Supporting Information

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Fig. S1. Olfactory sensory neurons in culture. (A) Olfactory marker protein (OMP) immunofluorescence in an OSN in culture. Upper right, dendrite; lower left, axon. (B) An olfactory sensory neuron in culture transfected with the PKA based sensor for cAMP. The fluorescence is evenly distributed through the cytoplasm with the exclusion of the nucleus. Upper left, axon; lower right, dendrite.



Fig. 52. Expression of Gs in the olfactory bulb. Immunolocalization of Gs in coronal sections through the olfactory bulb of P2-P5 (*A*) and >P20 (*B*) rats. In *A* and *B*: *Left*, Gs immunofluorescence; *Middle*, OMP immunofluorescence; and *Right*, merge of the two immunofluorescences. Identical results were obtained for mice (not shown). Arrowheads indicate glomeruli. ONL, olfactory nerve layer; GL, glomeruli layer; EPL, external plexiform layer.

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Movie S1. Sequence of pseudocolor images showing the fluorescence ratio changes (480 nm/545 nm) recorded in cilia-dendrite (*lower right*), soma, and axon termini-growth cone (*upper left*) of an olfactory sensory neuron challenged with odors, bath applied.

Movie S1 (MOV)

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Movie S2. Sequence of pseudocolor images showing the change in fluorescence (ΔF/F₀) recorded in two glomeruli in hemi-head preparation, challenged with an odor puff focally applied.

Movie S2 (MOV)

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