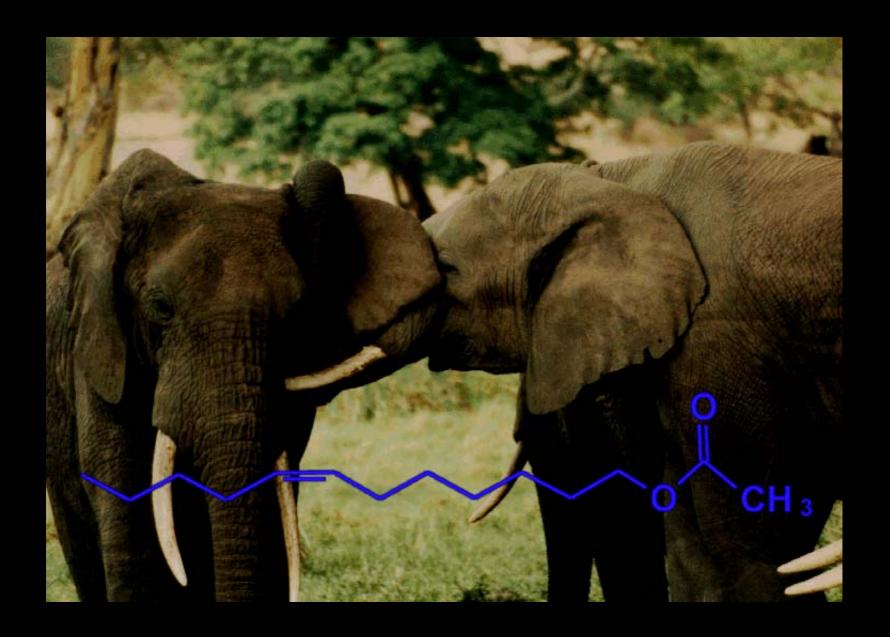






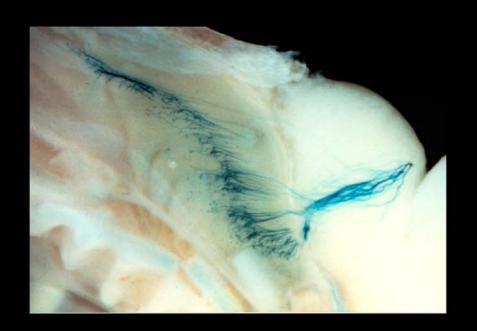
Pheromone Elicits Discrete Behavior

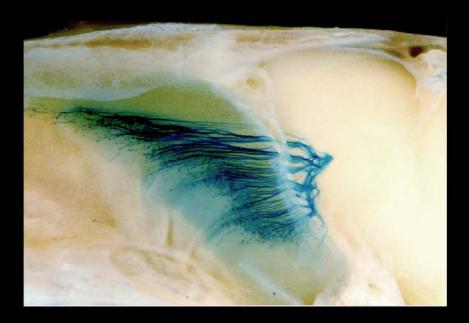




Different Sensory Modalities Employ Receptor Repertoires of Vastly Different Size



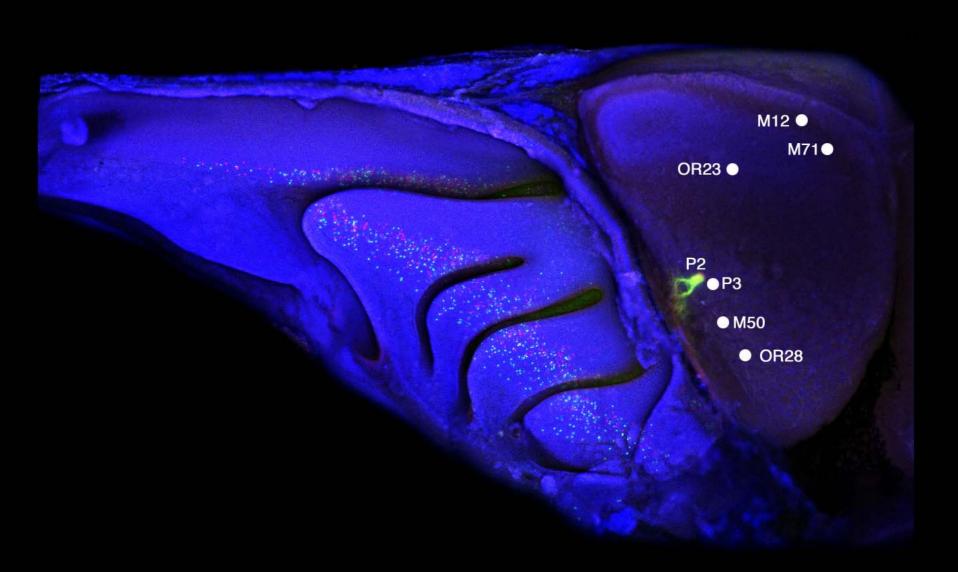




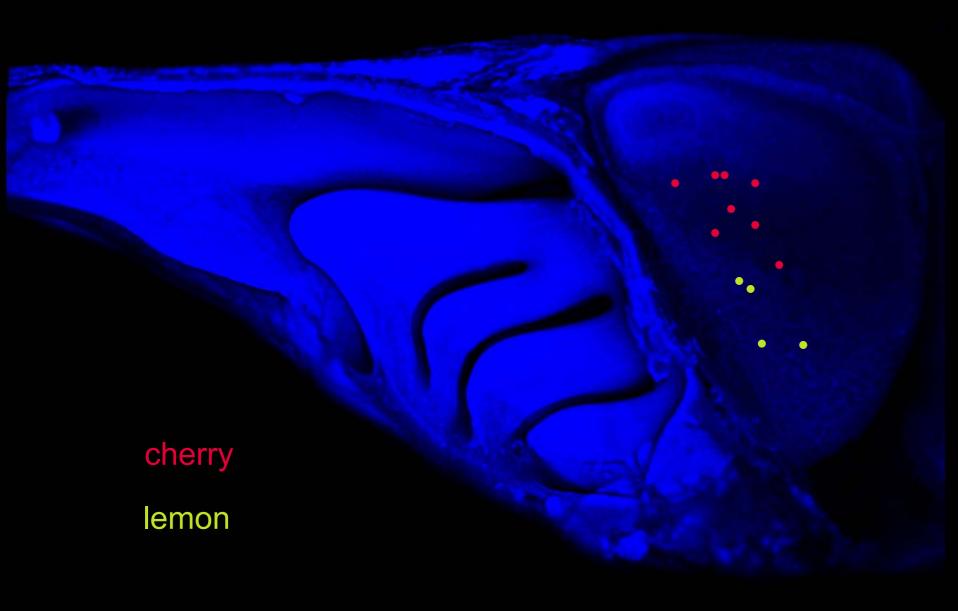
M12 IRES T Lac Z

P2 | IRES T | Lac Z

Olfactory Sensory Map



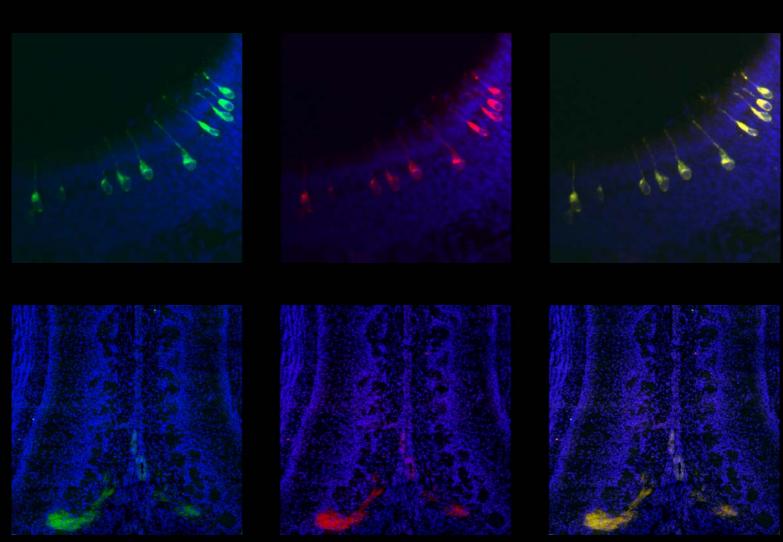
Odor Quality Encoded By Spatial Pattern of Activation



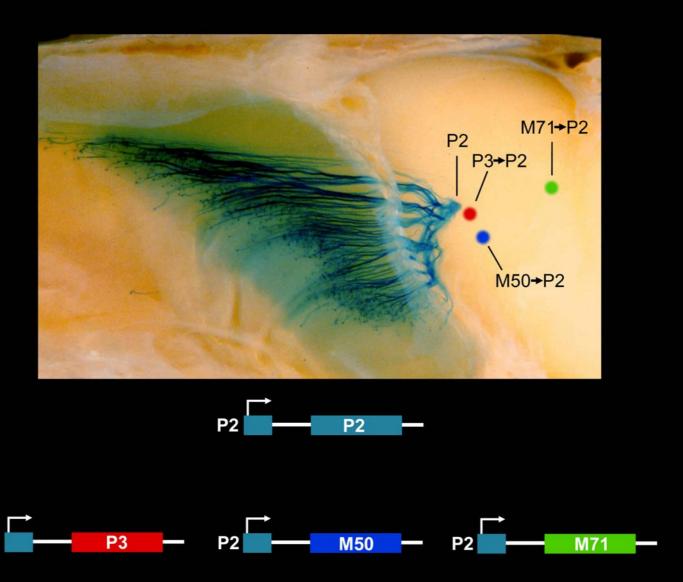
MOR28 Protein is Present in the Axon Terminal

Cytoplasmic

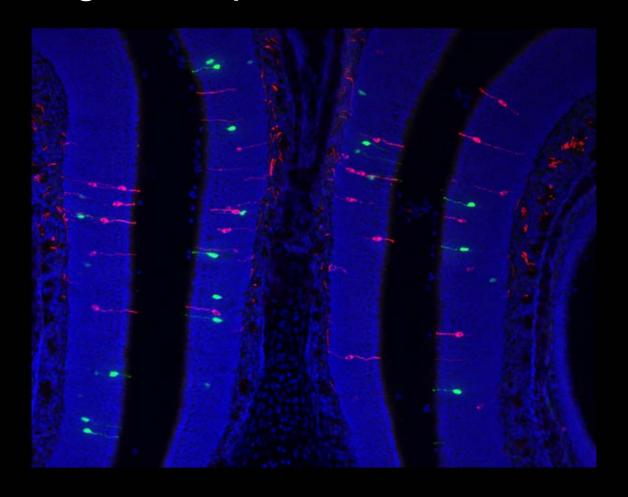
Extracellular

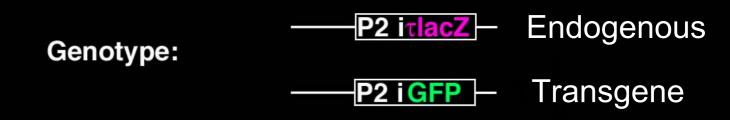


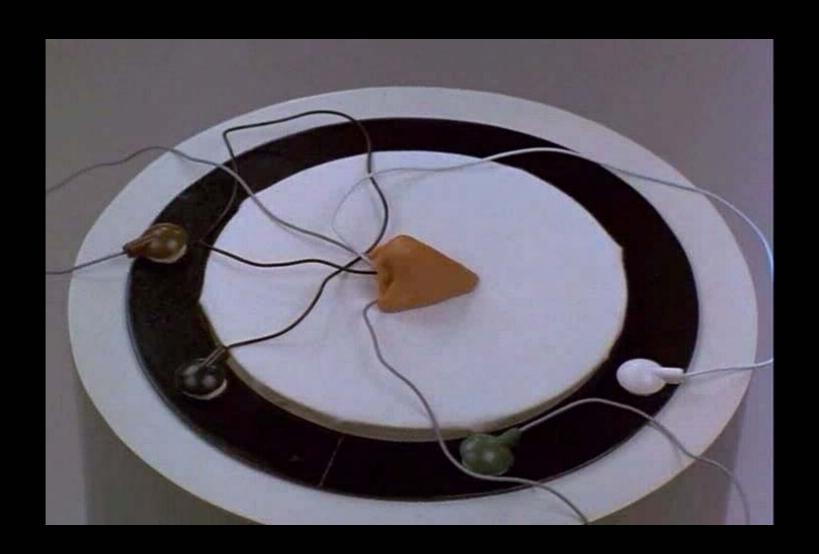
Receptor Governs Formation Of The Olfactory Sensory Map



Singular Expression of OR Genes

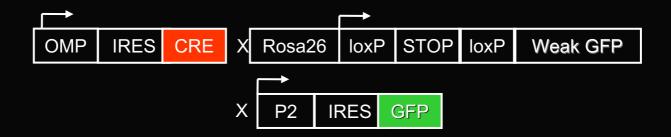


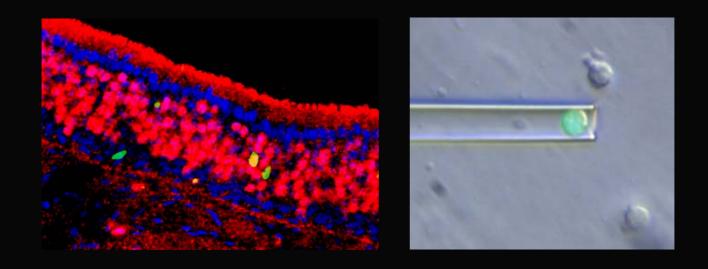




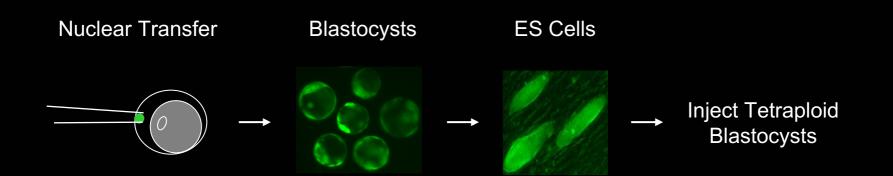


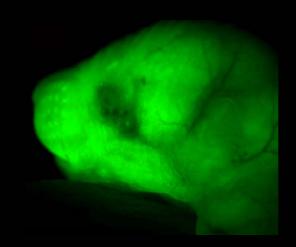
Cloning mice from a P2 sensory neuron nucleus



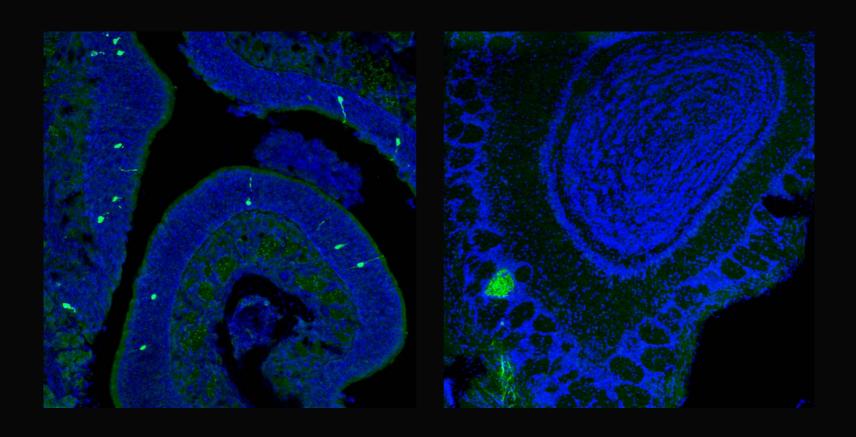


Cloning mice from a sensory neuron nucleus

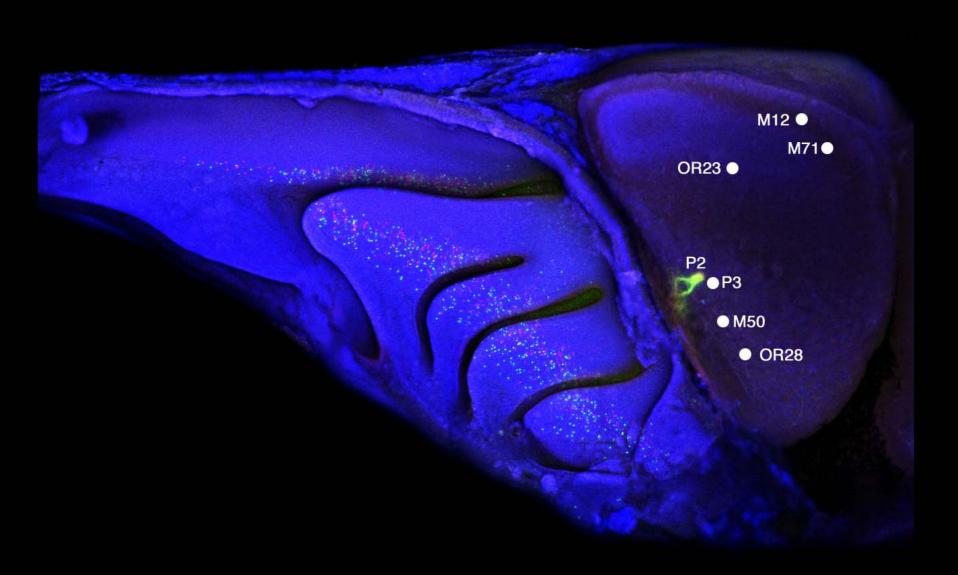




Expression of the P2 IRES GFP allele in P2 clones



Olfactory Sensory Map



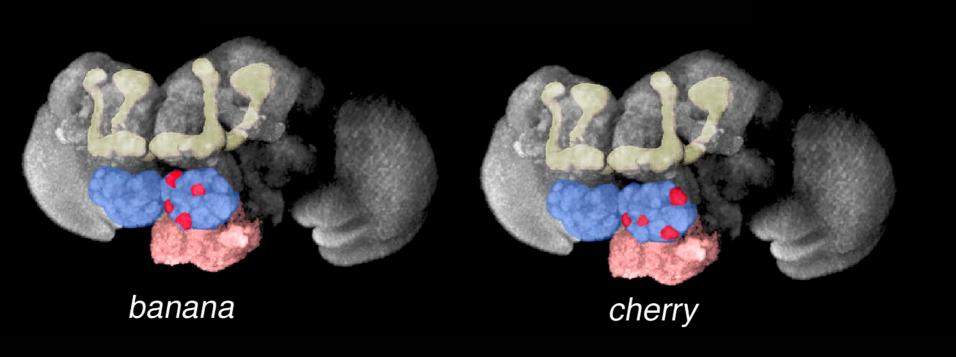




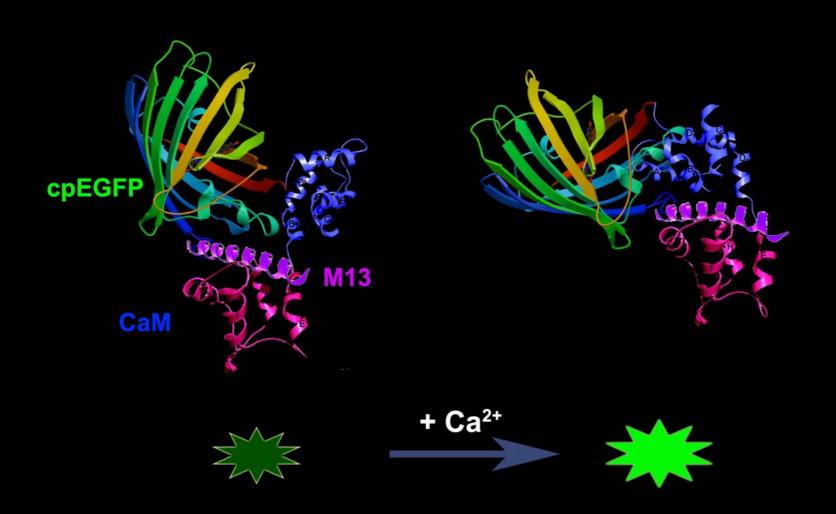


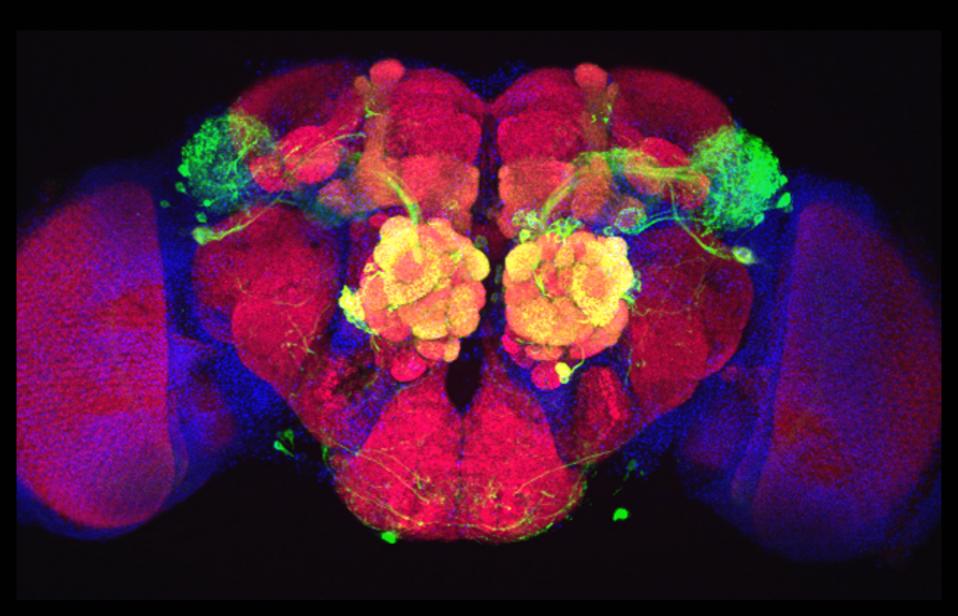
An Olfactory Sensory Map in the Antennal Lobe

A Topographic Map of Odor Quality

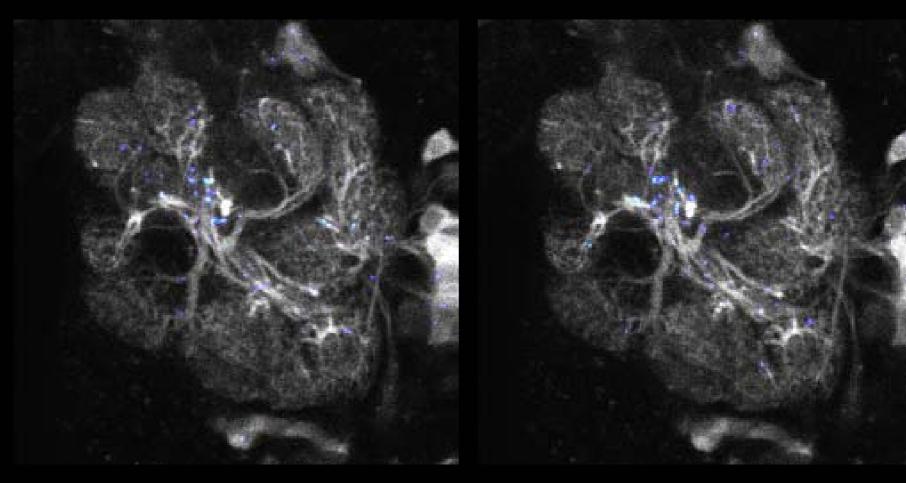


G-CaMP: a Calcium Sensitive Fluorescent Protein





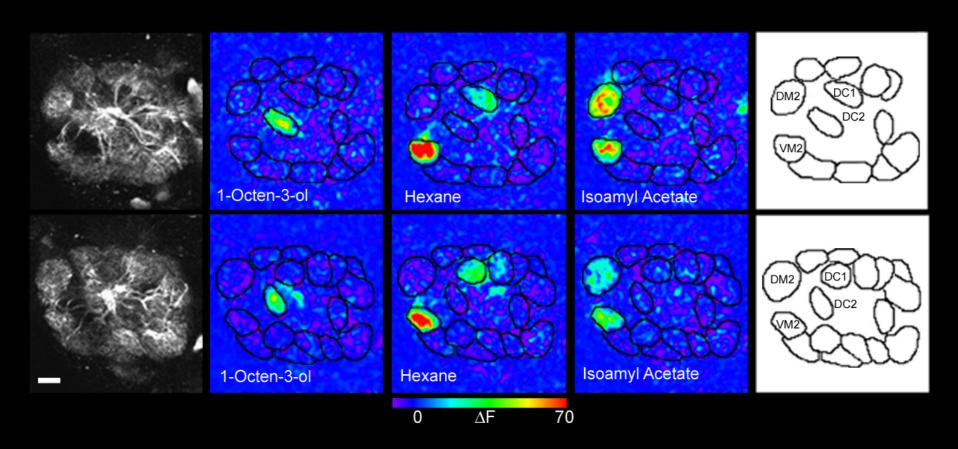
Glomerular Response to Odor Stimulation at 2% SV



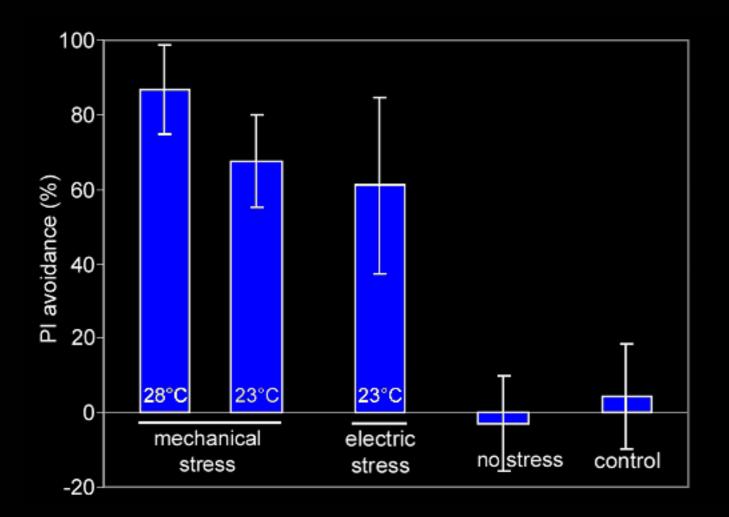
Ethyl hexanoate

Isoamyl acetate

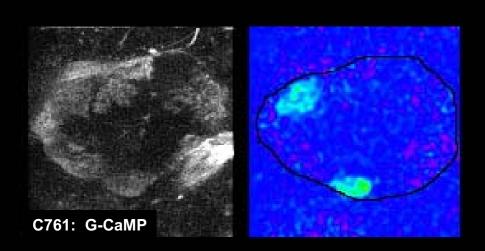
Conserved Glomerular Patterns in Different Animals

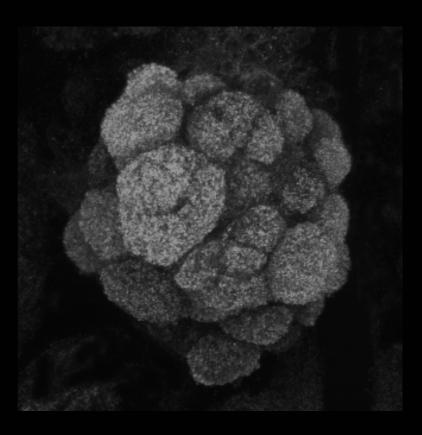


Stress Odors: Drosophila Alarm Response?

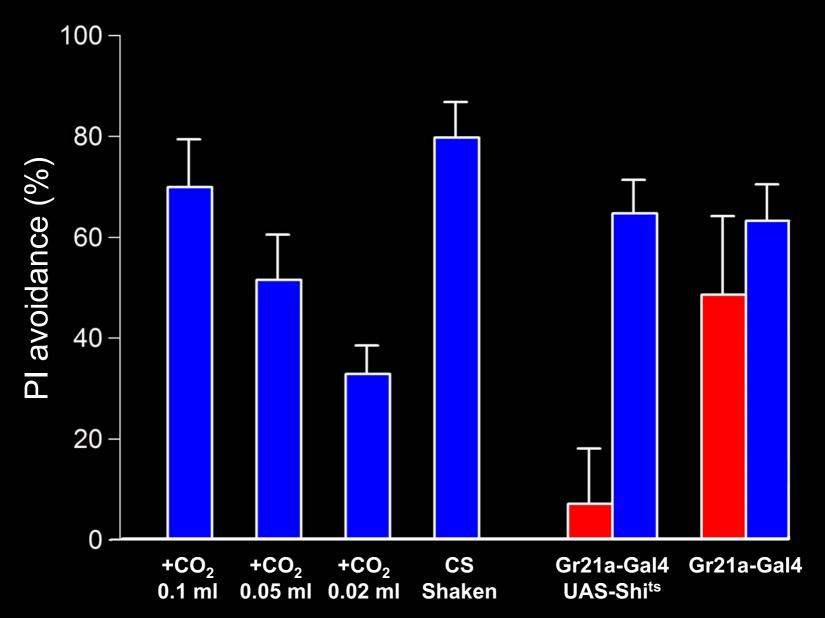


Activation of the V glomerulus by Stress Odor and CO₂

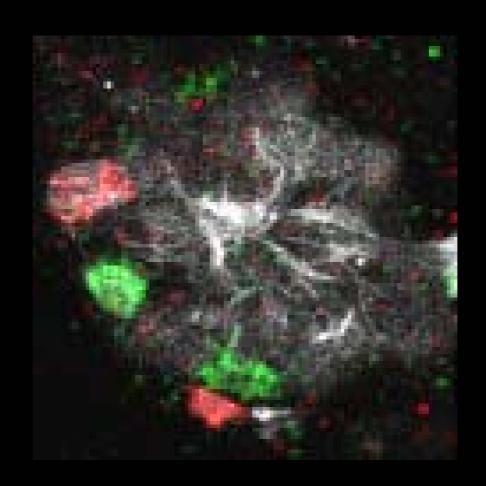




A Single Glomerulus Mediates the Behavioral Response to CO₂



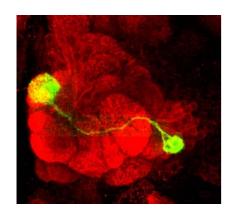
Glomerular Response to Caproic Acid and Pyridine

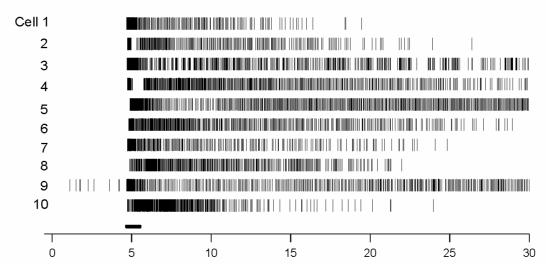


Caproic Acid
Pyridine

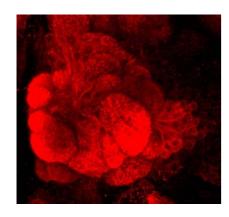
Calcium Influx Correlates to Robust Neuronal Firing

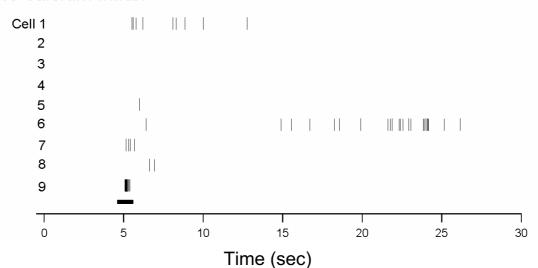
Calcium influx

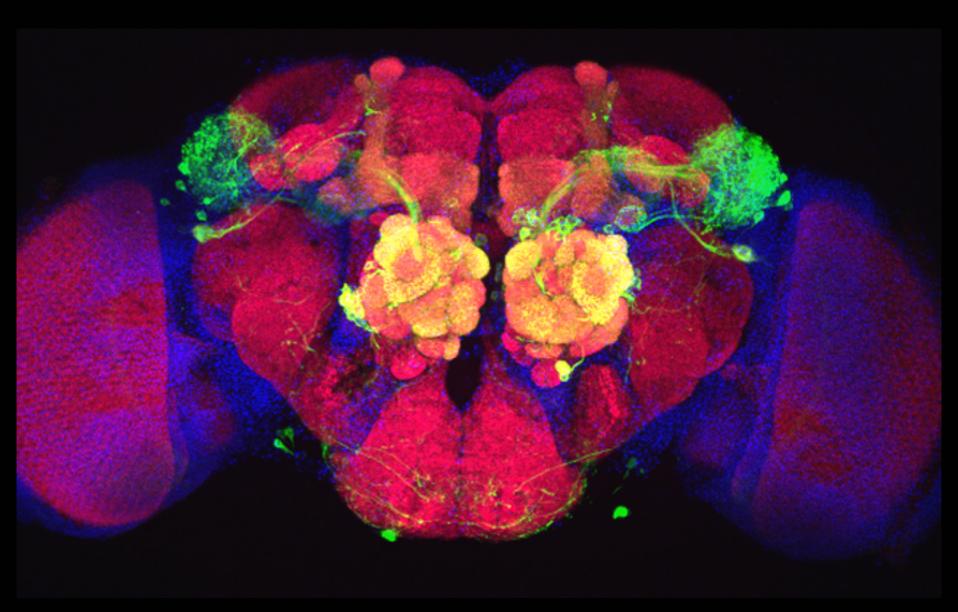




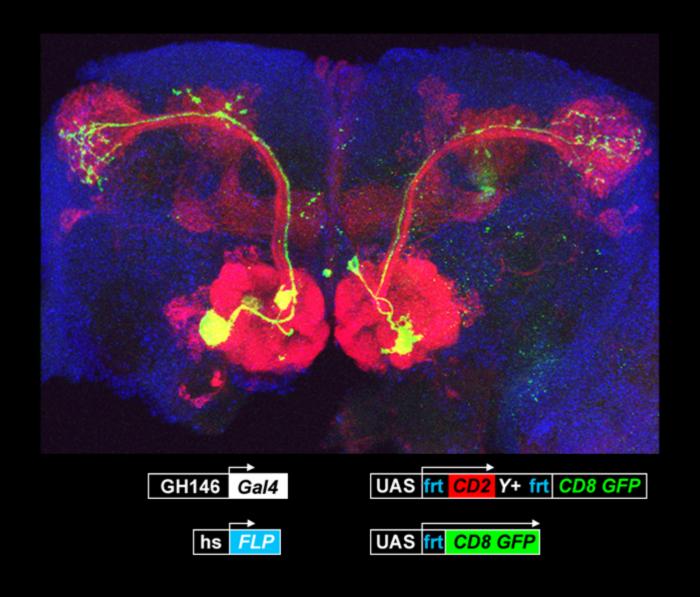
No calcium influx



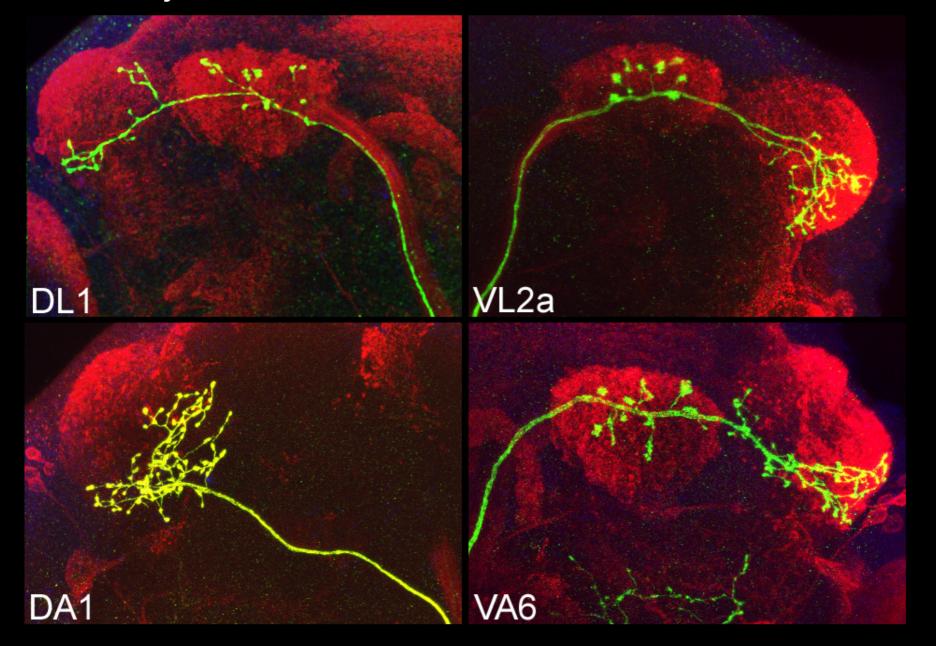




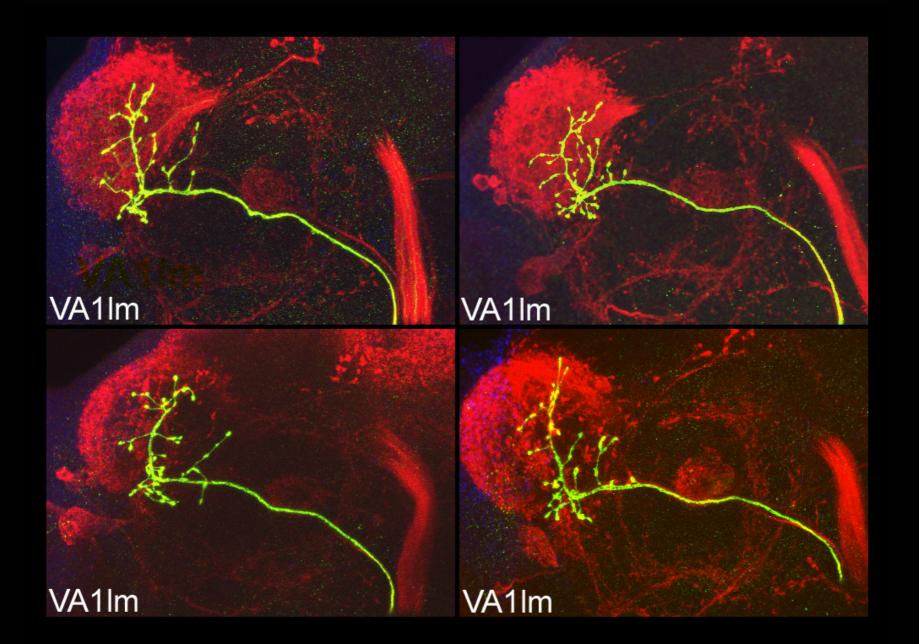
Expression of CD8-GFP in Single Projection Neurons



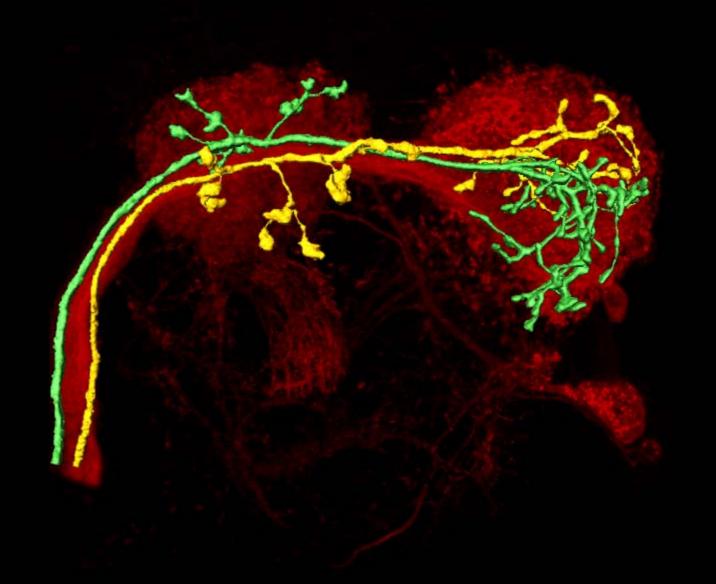
Different Projection Neurons Show Distinct Patterns in the Protocerebrum



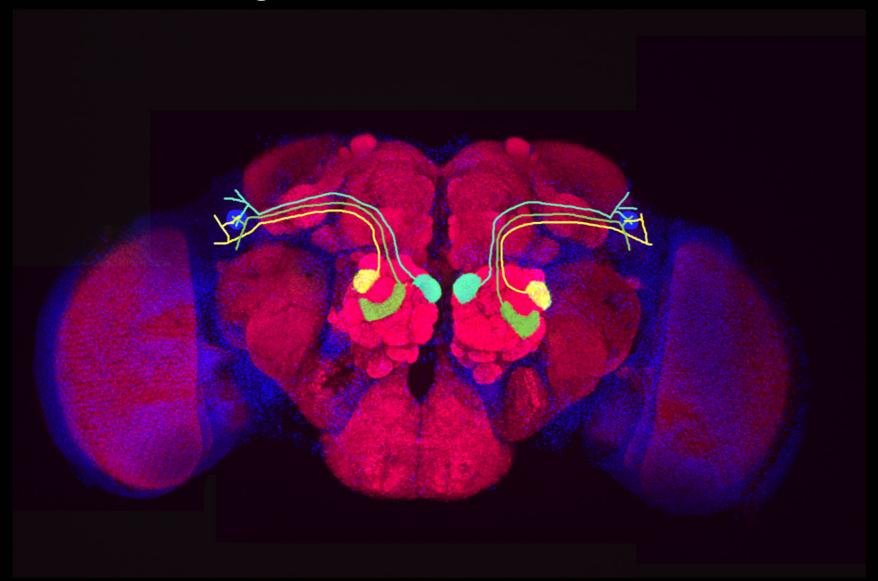
Maintenance of a Spatial Map in the Protocerebrum



Mapping the Fly Olfactory System



Convergence of Glomerular Information



Sten Grillner Torsten Wiesel Tomas Hokfelt



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