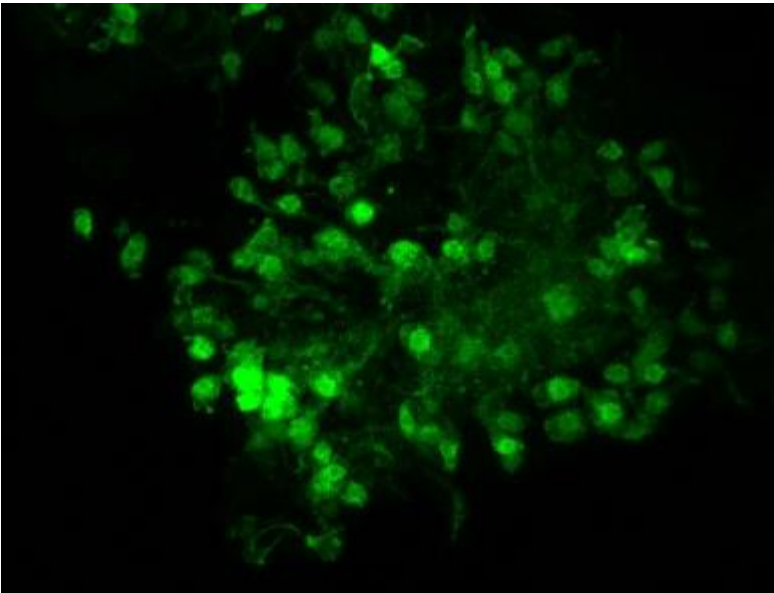
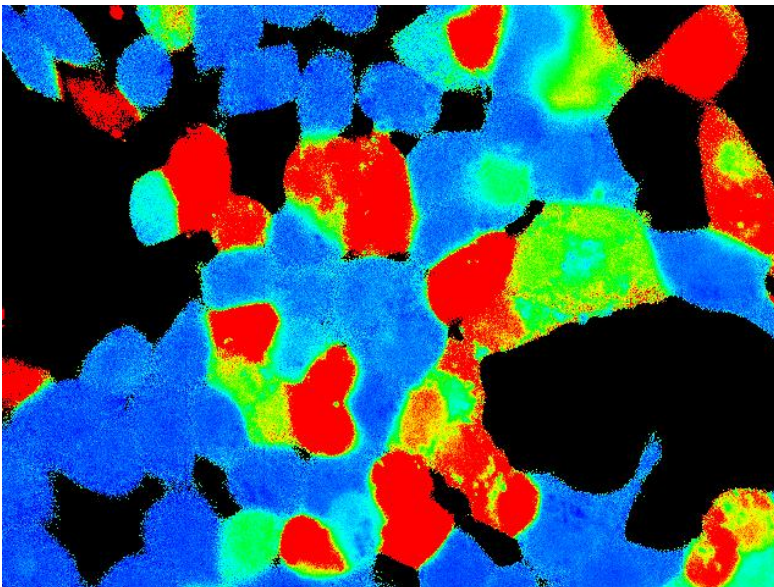


Top view into a *Drosophila* antenna. The antenna was opened via a transversal cut. Olfactory sensory neurons express the calcium-sensitive dye GCaMP3



Isolated *Drosophila* olfactory sensory neurons (expressing GFP)



HEK293 cells expressing the *Drosophila* odorant coreceptor (Orco). Stimulation of Orco with a synthetic agonist opens the ion channel formed by Orco thereby increasing the intracellular calcium concentration reported by a calcium-sensitive dye in the cells (low calcium, blue, high calcium, red)