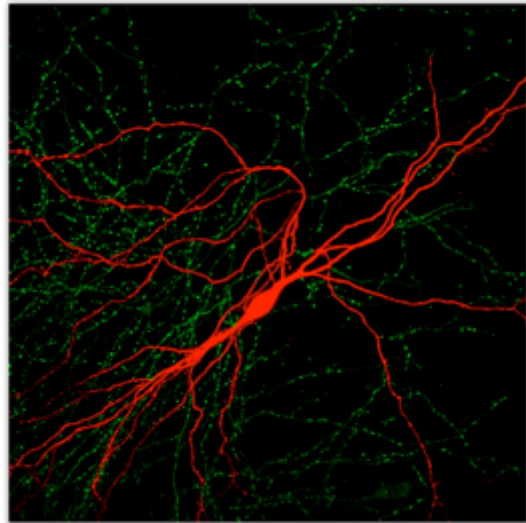
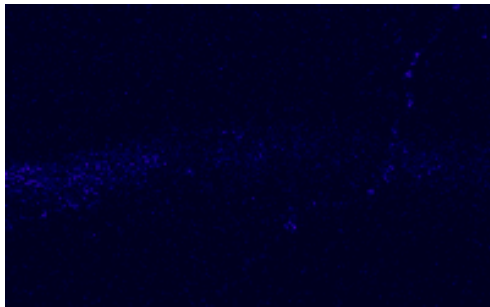
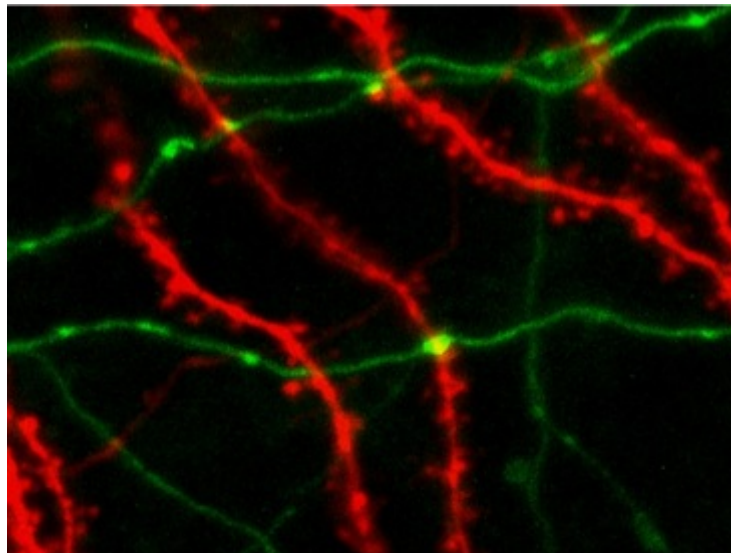




Images of Neurons



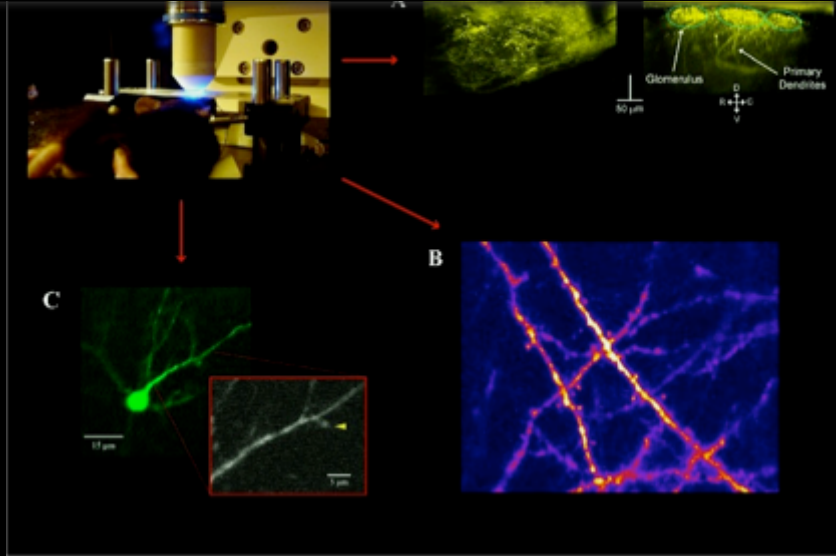
We implement several high resolution optical imaging approaches to visualize neuronal structure and function. Several modern optical imaging approaches provide investigators with minimally invasive approaches to investigate synaptic transmission and plasticity in intact nervous tissues. The complexity of structures in the nervous system is bewildering.



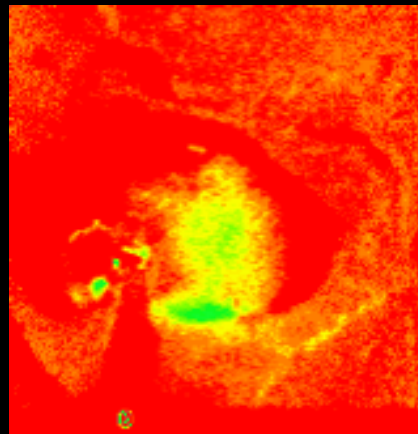
VAMP-EGFP expressing CA3 pyramidal neuron and its

2 captures

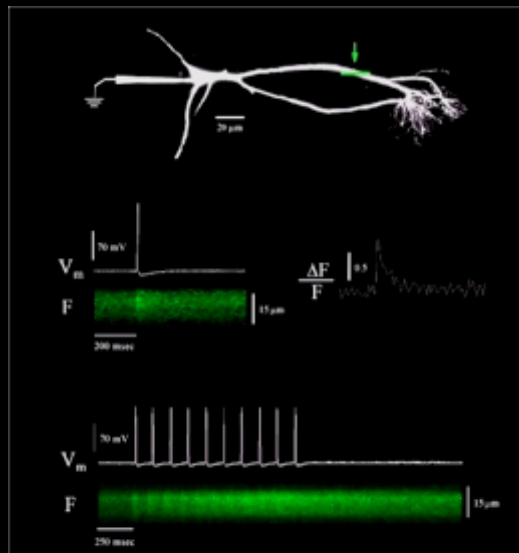
30 Jun 2010 - 10 Apr 2016



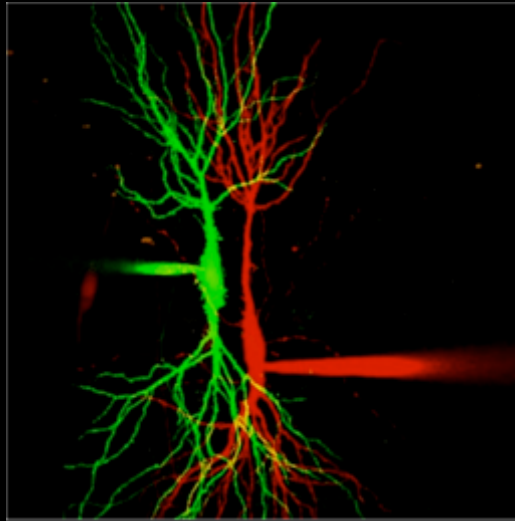
In vivo multiphoton imaging of mouse olfactory bulb and cortex



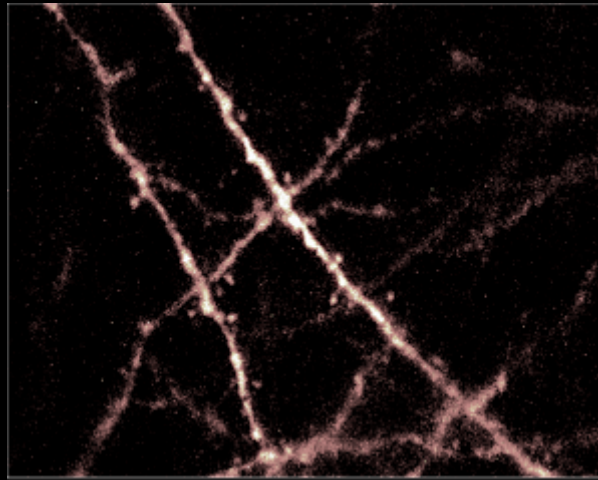
The time-series above illustrates cortical spreading depression imaged using intrinsic optical imaging techniques (images acquired by Yusuf Tufail)



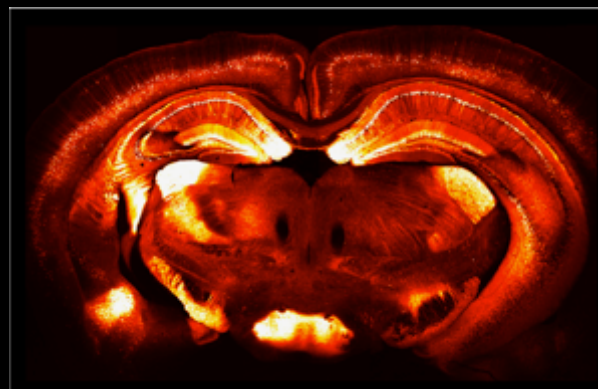
Calcium imaging in a mitral cell from acute slice of a
rat olfactory bulb



Dual patch-clamp of Hippocampal CA3 Pyramidal
Neurons from a slice culture



Cortical dendritic spines imaged *in vivo* using two-
photon microscopy from a *Thy-1-YFP* transgenic mouse



Low power confocal image of a coronal brain section

<http://www.public.asu.edu/~wtyler/lab/Optical Imaging.html>

Go

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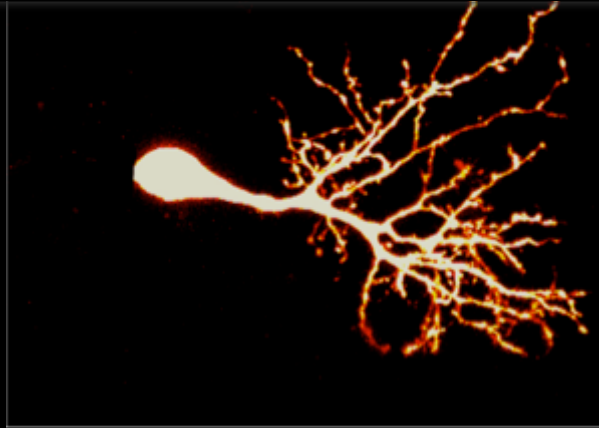
2016



About this capture

[2 captures](#)

30 Jun 2010 - 10 Apr 2016



Maximum intensity Z-projection of confocal optical sections illustrating a PG cell obtained from an acute slice of rat olfactory bulb