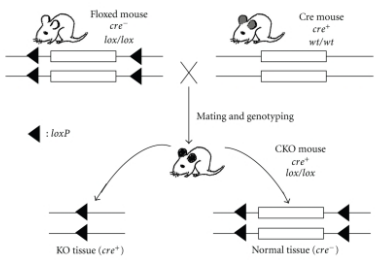# *The tools we use*
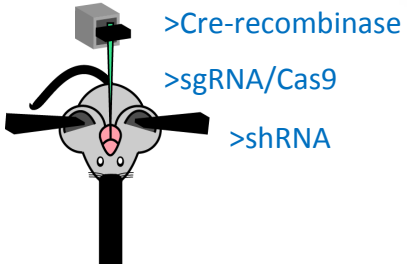
Genes
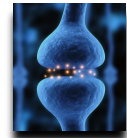

Conditional/ knockout animals
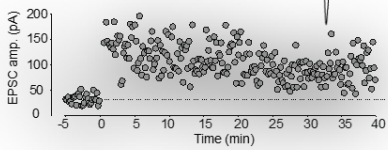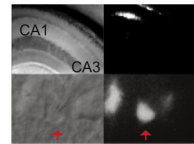

Adeno associated/Lenti Virus

>Cre-recombinase

>sgRNA/Cas9

>shRNA

Synapses

In vitro electrophysiology

Imaging
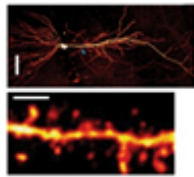
Networks

In vivo electrophysiology

Full band   3-12 Hz   35-85 Hz 100-250 Hz

Circuit mapping & manipulation
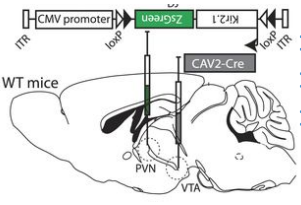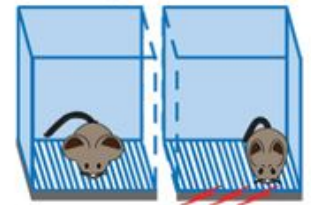
>Rabies Virus

>retro AAV

>Canine adeno -virus
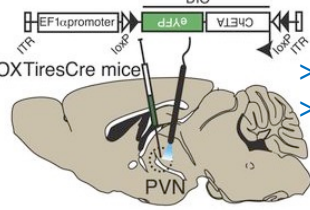
>Optogenetic

>Chemogenetic

Behaviours

Memory guided behaviours

Choice/Preference

Polepalli et al, 2012; Polepalli et al., 2017a; Polepalli et al., 2017b; Hung et al., 2017