Excitatory Synapses in the Hippocampus
Electrical synapses

Chemical synapses
> 30 00 excitatory inputs on a hippocampal pyramidal neuron
GFP transgenic mice

Feng et al 2000
The axon of a CA3 pyramidal neuron is highly branched. It can make up to 15000 synaptic contact with almost as many postsynaptic neurons.
Boutons are axonal swellings or varicosities found typically at the sites where synapses occur.
The cortical neuropil contains of $10^9$ synapses/mm$^3$