Olf and Pheromone receptors

P. Mombaerts, 2004
Generation of an olfactory map

(a) Diagram of the olfactory system showing different zones (Zone I to Zone IV) and the olfactory bulb. Odor molecules bind to specific receptors in the olfactory epithelium, guiding neural projections to specific glomeruli in the olfactory bulb.

(b) Schematic representation of the olfactory bulb showing how different odorant receptors map to specific zones and glomeruli, creating a map of olfactory information.
ORNs expressing the same receptor project to the same glomeruli in the olfactory bulb
P2

M12 → P2
VNO projections

Nature Reviews | Neuroscience

P. Mombaerts, 2004
Pyramidal neuron dendritic architecture

Whitford et al., 2002
3/24 Presentation
(Wang et al., 1998)
Neurotrophins lecture
QUIZ
(axon guidance)

3/28 Neurotrophins lecture
Class discussion
(Lee et al., 2001)

3/31 Synapse formation lecture