

## SPECIAL SENSE: OLFACTION

### CHEMORECEPTORS:

#### NEURONS WITH DENDRITES IN MUCUS

- chemicals dissolve in surface fluid layer
- bind to receptors on dendrites
- neurons depolarize, signal to brain
- fluid replaced rapidly - chemical stimuli removed

### SUPPORTING EPITHELIUM

- specialized respiratory epithelium
- pseudostratified, NO goblet cells, NO cilia
- fluid secreted by glands in lamina propria

fluid gland  
in lamina propria

olfactory  
epithelium

nasal cavity

