



Table 1.2 General features and processes common to many types of sensory receptors

Transduction-processes*	Fixed voltage-gate cells	Fixed v - v potentials
Detection	Mechanisms that alter membrane conductance (flow, voltage, timing, membrane)	Mechanisms that alter membrane conductance (flow, voltage, timing, membrane)
Amplification	Water-soluble second messengers or membrane channels Signal to other substances Active processes to membrane	Positive feedback among cells Signal-to-receptor enhancement
Encoding and discrimination	Intensity coding Temporal discrimination Quality coding	Different dendrite inputs among cells Independent coding of quality and intensity Cross-correlated antagonism Opponent mechanisms
Adaptation and sensitization	Desensitization Negative feedback Temporal discrimination Repetitive responses	Temporal discrimination
Coding of time course	Channel type or state	
Electrical response of membrane	Depolarization or hyperpolarization	
Transmission to brain	Electrotonic spread Number and frequency of APs Synaptic transmission	Signal patterns: range and range frequency Temporal patterns, directional selectivity, etc.

* Adaptation and sensitization are not included.















