

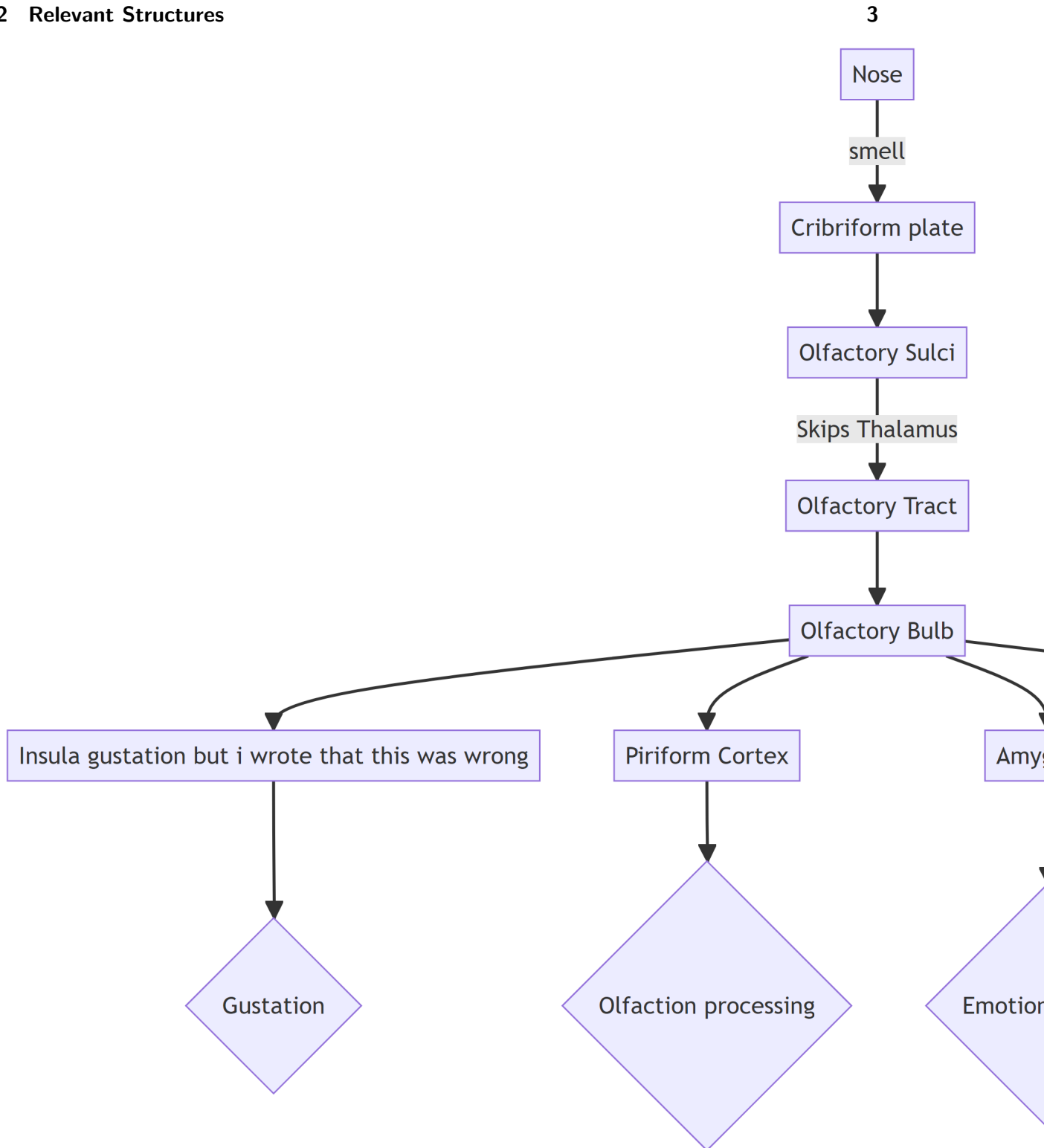
CN I: Olfactory nerve

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2 Relevant Structures



SKIPS THALAMUS: Directly to cerebrum

1 Pathway:

1.1 First order neurons:

1. Olfactory receptor cells (Bipolar) (in olfactory epithelium)
2. Olfactory nerve (made up of axons combined with other receptor cell axons)
3. Pass through Cribriform plate of Ethmoid bone
4. Terminate: olfactory bulb (main relay station of olfactory pathway)

1.2 Second order neurons:

1. Olfactory tract
2. Split: Medial & Lateral striae
 1. Medial Stria: Projects to subcallosal gyrus
 2. Lateral Stria: continues on to Parahippocampal gyrus

2 Relevant Structures

Olfactory cortex: no single structure - Piriform cortex: - Located: Below lateral olfactory stria
- Function: Olfactory processing - Amygdala: - Located: Anterior to Temporal/Inferior horn of Lateral Ventricle - Function: Emotion & Fear - Entorhinal cortex: - Location: Anterior part of Parahippocampal gyrus - Function: Formation of Memory