A Afferent pathways B Efferent pathways Periaqueductal Periaqueductal gray matter gray matter Parabrachial Parabrachial nucleus nucleus Cortex Cortex Amygdala Amygdala Hypothálamus Hypothalamus Nucleus ambiguus -Nucleus ambiguus Dorsal motor Dorsal motor Ventrolateral vagal nucleus vagal nucleus Parasympathetic medulla Ventrolateral input Nucleus of the Nucleus of the medulla solitary tract solitary tract Sympathetic input Hear Heart Intermediolateral Gut > cell column