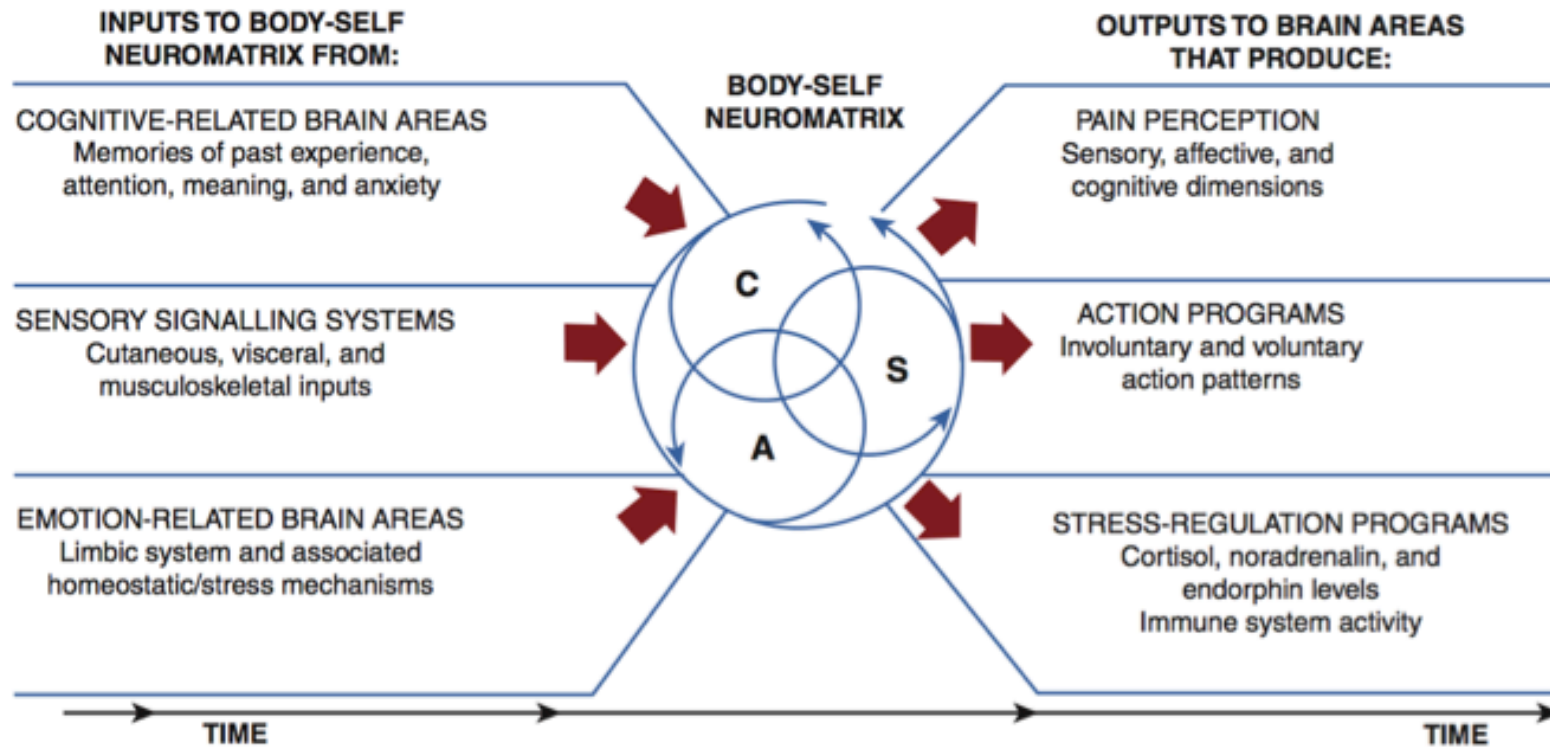


**Chapter 1—A Conceptual Framework for Understanding Pain in the Human**



**Fig. 1.3** Factors that contribute to the patterns of activity generated by the body-self neuromatrix, which is composed of sensory, affective, and cognitive neuromodules. The output patterns from the neuromatrix produce the multiple dimensions of pain experience, as well as concurrent homeostatic and behavioral responses. (From Melzack R: *Pain and the neuromatrix in the brain*, J Dent Educ 65:1378–1382, 2001.)

IMAGE: Updated Neuromatrix Model. Waldman SD; Pain Management, 2<sup>nd</sup> Ed. (Saunders) 2011  
 p. 5. Ch. 1: A Conceptual Framework for Understanding Pain in the Human. Joel Katz and Ronald Melzack