Joint Event

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Motivational salience-coding dopamine (DA) neurons, being excited by both rewarding and aversive events with weaker responses to neutral events, of er a suitable instructive signal for neural circuits to learn to detect, predict, and respond to situations of high importance. In this regard, DA neurons play a crucial role in motivating efforts of the tentromedial substantial nigration parts compactated (SNc) and ventral tegmental area (VTA), signals are sent to the ventromedial prefrontal cortex and orbitofrontal cortex (OFC), in uencing choice assessment and updating outcome expectations. In the dorsal striatum processes both motivational value and salience signals, ese signals guide value learning in striatal circuitry, with burst or ring facilitating reward learning and pausing facilitating avoidance learning. Similarly, in the dorsal and lateral frontal cortex, impacting cognitive functions such as attention, working memory, eth 6ch