The role of dopaminergic midbrain in Alzheimer’s Disease

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Highlights: Alzheimer’s disease (AD) is a progressive neurological disorder characterized by several cognitive and non-cognitive symptoms, with episodic memory being the earliest and most prominently impaired cognitive function. Dopaminergic signals are required for encoding hippocampal memory for new events and the ventral tegmental area (VTA), together with the locus coeruleus, are the primary sources of dopamine acting on dopaminergic receptors in the hippocampus. With this in mind, we will discuss recent results highlighting on the hippocampal dysfunction and its correlation with an early degeneration of dopaminergic neurons in the VTA.

Host: Prof. Fabio Mammano