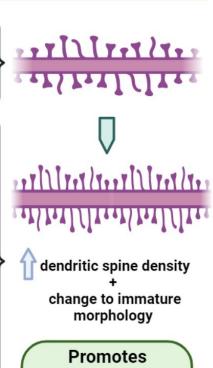
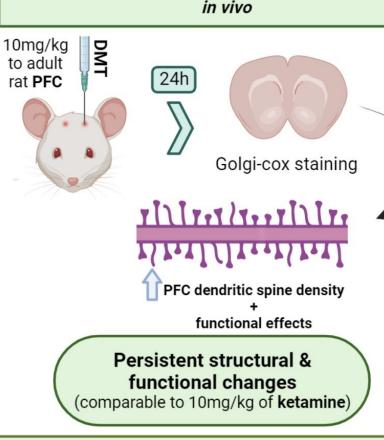
## Psychedelics Promote Structural and Functional Neural Plasticity

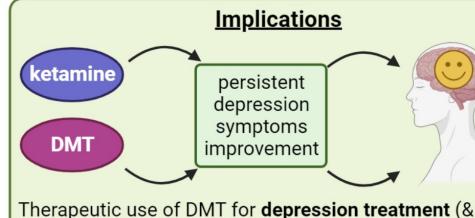
Ly, Calvin, et al. "Psychedelics Promote Structural and Functional Neural Plasticity." Cell Reports, vol. 23, no. 11, June 2018, pp. 3170-3182, www.cell.com/cell-reports/pdf/S2211-1247(18)30755-1.pdf, 10.1016/j.celrep.2018.05.022. Visual summary by: Eline Poinsignon-Clavel. Images produced with BioRender app.biorender.com

## in vitro 24h (Structured Illumination Microscopy) synaptogenesis





erotonergic psychedelics (DOI, DMT, LSD) showed promotion of ral plasticity by significantly increasing spinogenesis in-vivo and n-vitro. Increased spine density & promotion of immature spine orphology was observed for all tested psychedelics in-vitro. This leads to increased function and number of synapses. Usual amine dose (10mg/kg) of DMT (short half-life) was administered in vivo to compare their effects. Similar results of persistent unctional & structural changes were observed, demonstrating rsistent promotion of neural plasticity, and indicating DMT (and other serotonergic psychedelics) as potential treatment for depression due to similar effects to ketamine.



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related disorders)