

10 most significant publications (2022-2012):

Perez S, Cui Y, Vignoud G, Perrin E, Mendes A, Zheng Z, Touboul J, Venance L. Striatum expresses region-specific plasticity consistent with distinct memory abilities. *Cell Reports* 38(11):110521 (2022).

Valverde, S., Vandecasteele, M., Piette, C., Derousseaux, W., Gangarossa, G., Aristieta Arbelaz, A., Touboul, J., Degos, B. & Venance, L. Deep brain stimulation-guided optogenetic rescue of parkinsonian symptoms. *Nature Communications* 11(1):2388 (2020).

Mendes, A., Vignoud, G., Perez, S., Perrin, E., Touboul, J. & Venance, L. Concurrent thalamostriatal and corticostriatal spike-timing-dependent plasticity and heterosynaptic interactions shape striatal plasticity map. *Cerebral Cortex* 30(8):4381-4401 (2020).

Gangarossa, G., Perez, S., Dembitskaya, Y., Prokin, I., Berry, H. & Venance, L. BDNF controls bidirectional endocannabinoid-plasticity at corticostriatal synapses. *Cerebral Cortex* 30(1):197-214 (2020).

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Xu, H., Perez, S., Detraux, B., Cornil, A., Prokin, I., Cui, Y., Degos, B., Berry, H., de Kerchove d'Exaerde, A. & Venance, L. Endocannabinoid-dopamine interactions mediate spike-timing dependent potentiation in the striatum. *Nature Communications* 9(1):4118 (2018).

Fino, E., Vandecasteele, M., Perez, S., Saudou, F. & Venance, L. Region-specific and statedependent action of striatal GABAergic interneurons. *Nature Communications* 9(1):3339 (2018).

Valtcheva, S. & Venance, L. Astrocytes gate Hebbian synaptic plasticity in striatum. *Nature Communications* 7:13845 (2016).

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Coutant B, Frontera JL, Perrin E, Combes A, Tarpin T, Menardy F, Mailhes-Hamon C, Perez S, Degos B, **Venance L**, Léna C, Popa D. Cerebellar stimulation prevents Levodopa-induced dyskinesia in mice and normalizes activity in a motor network. *Nat Commun.* 13(1):3211 (2022)

Perez S, Cui Y, Vignoud G, Perrin E, Mendes A, Zheng Z, Touboul J, **Venance L**. Striatum expresses region-specific plasticity consistent with distinct memory abilities. *Cell Reports* 38(11):110521 (2022).

Smith JB, Smith Y, **Venance L**, Watson GDR. Editorial: Thalamic Interactions With the Basal Ganglia: Thalamostriatal System and Beyond. *Front Syst Neurosci.* 16:883094 (2022).

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