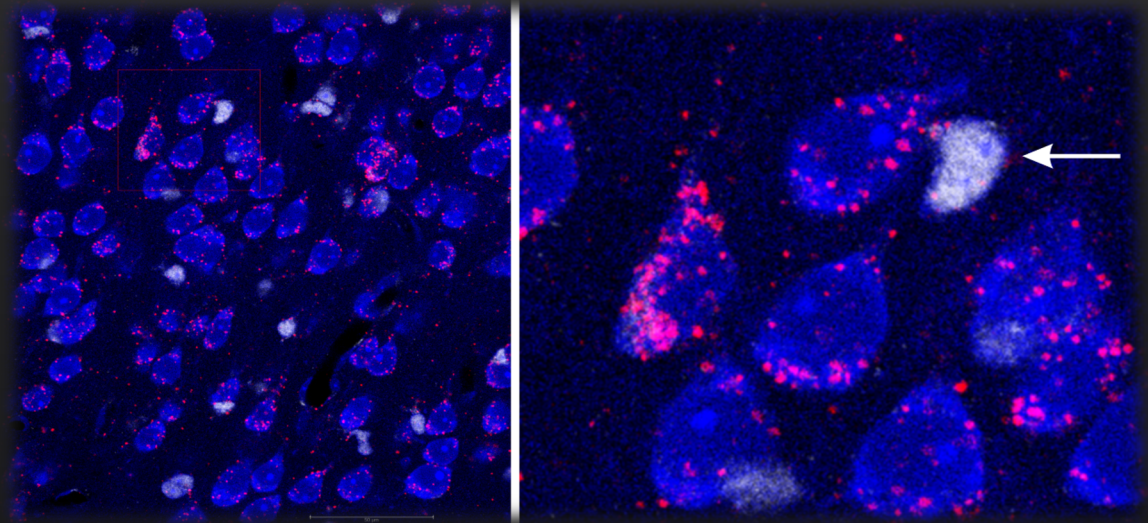


Expression of the Psychiatric Risk Gene *TCF4* in the Developing Macaque Neocortex

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My research focused on TCF4, a transcription factor that, when haploinsufficient, causes Pitt-Hopkins Syndrome (PTHS).

Specifically, I studied the biodistribution of TCF4 in the developing Macaque brain using *in situ* hybridization and immunohistochemistry.

My research is significant as eventual pharmacological or genetic approaches to treat PTHS, and other TCF4-linked disorders, require knowledge of TCF4 distribution at the resolution of discrete brain areas and specific cell lineages and types.

Conclusions



- TCF4 is evenly distributed across the 6 layers of the neocortex
- TCF4 is found in both neurons and glial cells



- TCF4 is concentrated in layers 2 and 4 of the neocortex
- TCF4 is found in neurons and at a lower level in glial cells

Our data point to unexpected and potentially significant differences between TCF4 expression in mice and primates, which will critically guide emerging strategies to treat PTHS.