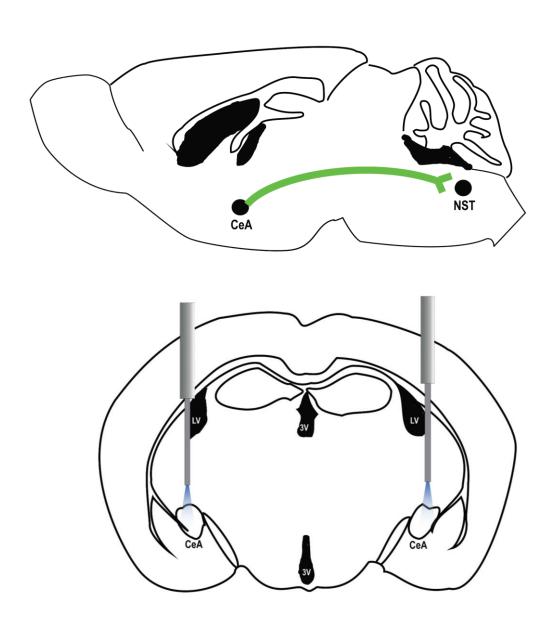
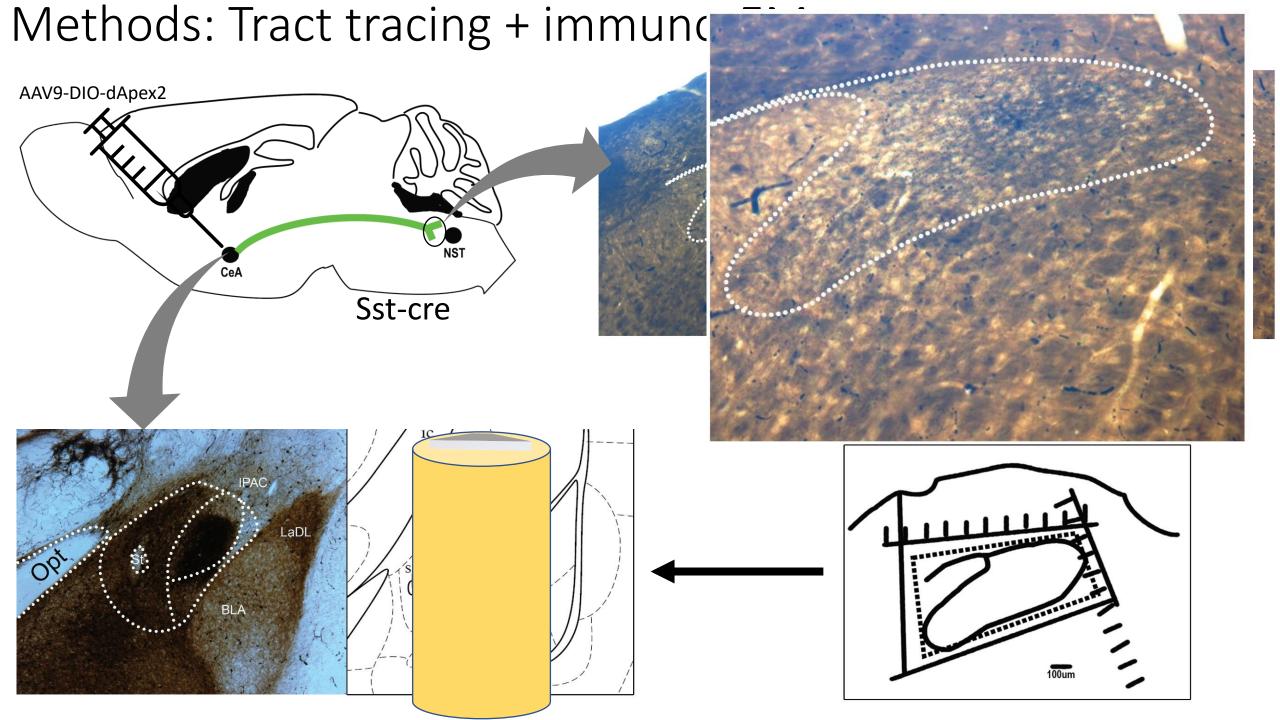
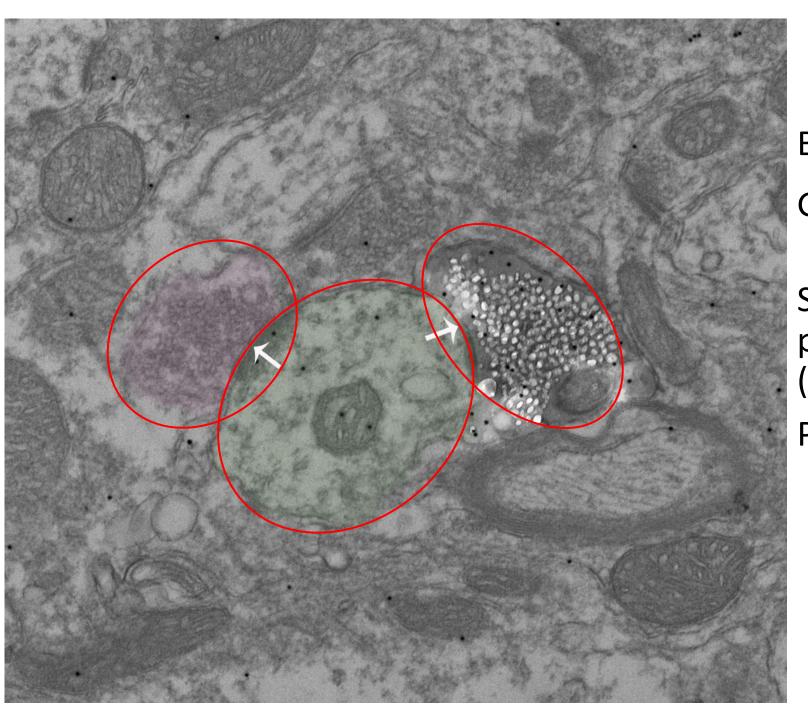


Background: Why TEM

- Central amygdala (CeA) somatostatin neurons projecting to the nucleus of Solitary tract (NST) Vs. ingestive behavior
- Optogenetic silencing = Increased intake of high concentration of quinine
- Synaptic connectivity?
- TEM provides required resolution







Data Analysis

 $Background = \frac{\text{#gold particles}}{Area}$

GABA+ =2SD above background

2SD: 14.13

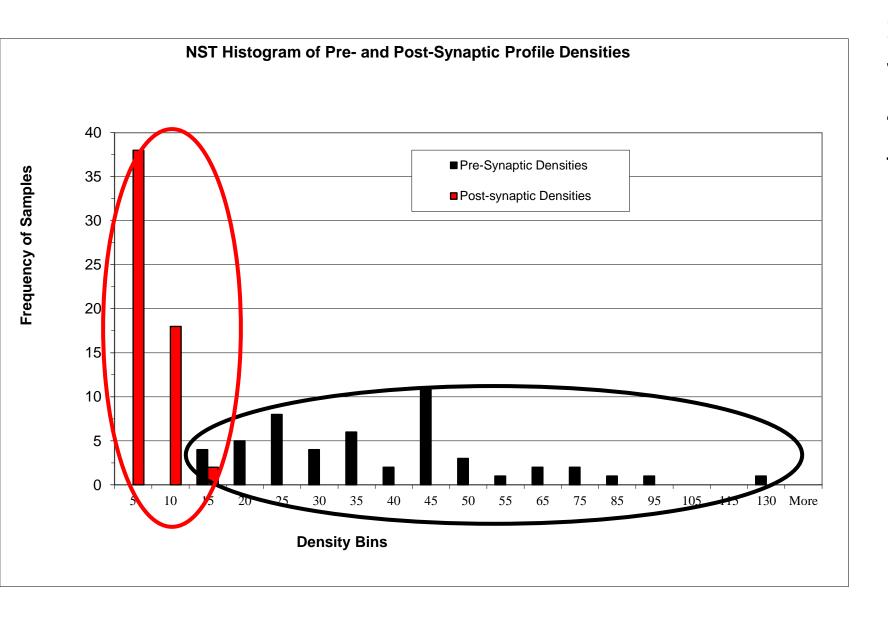
Sst-terminal: 34.16

particles/um²

(GABAergic/GABA+)

Post-synaptic cell: 5.39 (GABA⁻)

CeA somatostatin cells co-express GABA



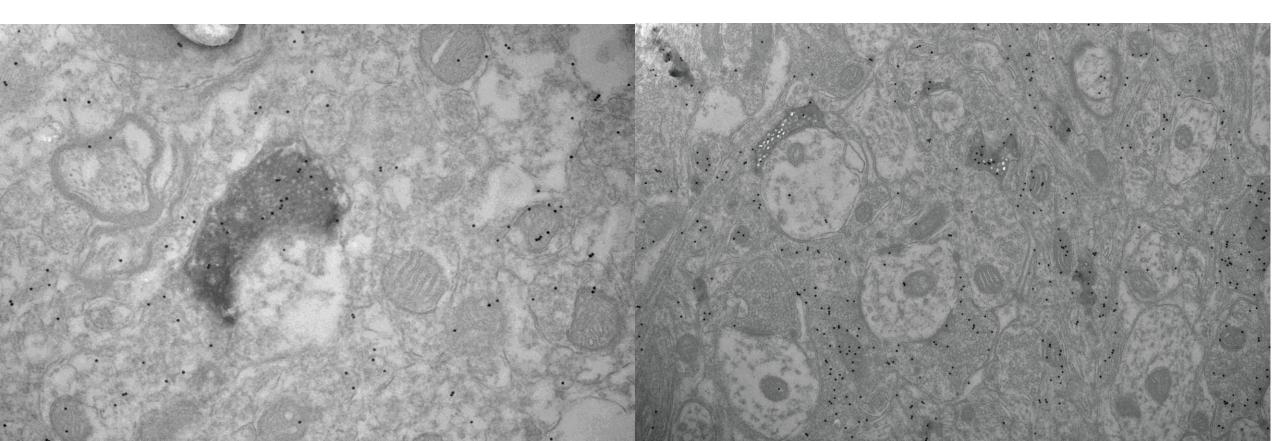
>95% of SSt- terminals were GABA+
~100% post-synaptic targets GABAergic

Issues encountered: Ultrastructural loss

AAV2-DIO-EYFP
Immunoperoxidase
DAB substrate

AAV9-DIO-dApex

DAB Substrate



Questions