



**Gabby Rudenko, PhD**

**Professor**

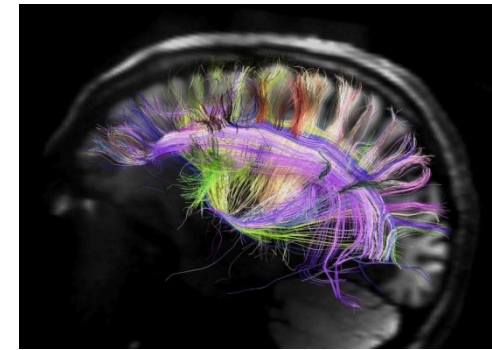
**University of Texas Medical Branch**

**Sealy Center for Structural Biology and Molecular Biophysics**

**Dept. Pharmacology/Toxicology**

**[garudenk@utmb.edu](mailto:garudenk@utmb.edu)**

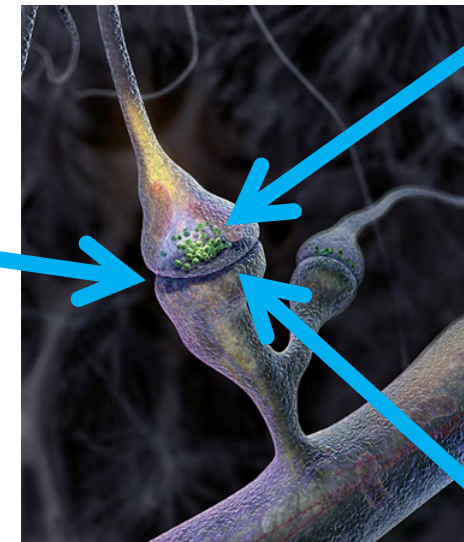
**circuits**



**neurons**



**synapses**



**Pre-synaptic machinery**

**Post-synaptic machinery**

**Synaptic cleft**

Graham Johnson HHMI, 2004

**Research Interests:**

**Synapse Biology**

**Structural Biology**

**Drug discovery**

**Neurological/neuropsychiatric disorders**

**Biochemist, Biophysicist, Structural Biologist**

**Collaborators sought in:**

**Neuroscience**

**Method/Assay development**

**Drug discovery**

**<https://www.ncbi.nlm.nih.gov/myncbi/gabrielle.rudenko.1/bibliography/public/>**

**<https://scsb.utmb.edu/labgroups/rudenko/welcome>**

**[linkedin.com/in/gabrielle-gabby-rudenko-phd-4813a610](https://www.linkedin.com/in/gabrielle-gabby-rudenko-phd-4813a610)**

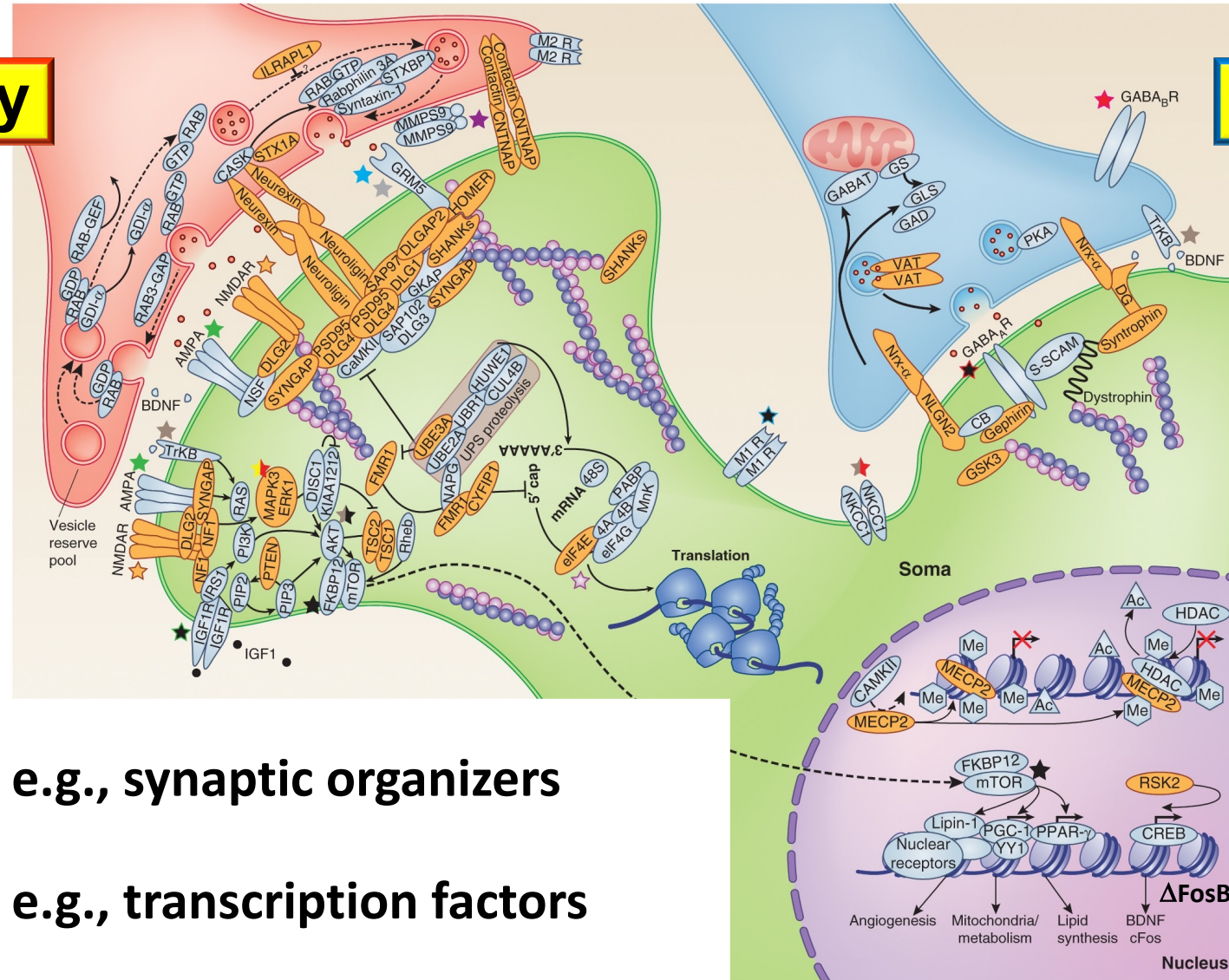
# Molecules regulating synapse development

**Excitatory**

synapse

**Inhibitory**

synapse



**directly** e.g., synaptic organizers

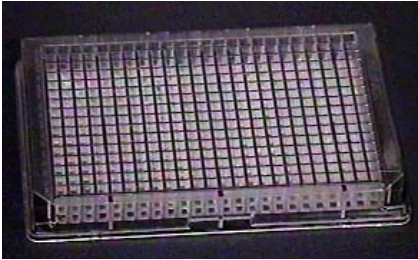


**indirectly** e.g., transcription factors

Delorme et al. 2013, Nature Medicine 19(6):685-94

Many of these proteins are linked to diseases such as ASD and schizophrenia

# Rudenko Lab

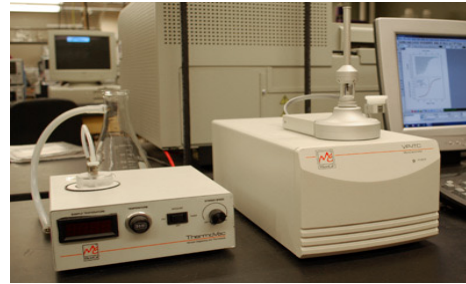
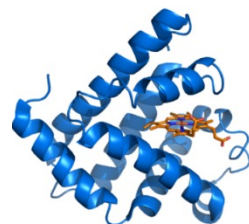
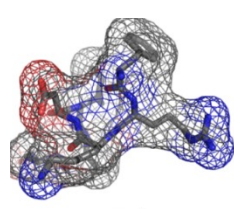
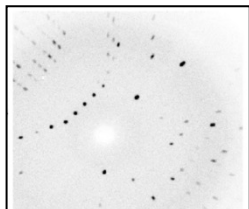
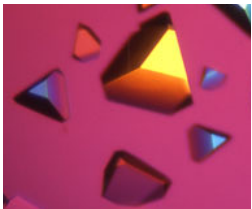


## Biochemistry

- protein purification
- protein-interaction assays
- compound screening

## Structural Biology

- X-ray crystallography
- EM



## Biophysics

- ITC
- FP
- AUC
- SPR



## Neuroscience

- synaptosome pulldowns
- collaborations

