The Freeman Lab:
Oxytocin, Vasopressin, and the
Comparative Neurobiology of Social Behavior

Comparative Neuroanatomy of Social Circuits

Oxytocin receptor mapping across mammalian species, especially primates

Methods development: novel staining techniques to visualize the oxytocin receptor at the cellular level

Receptor Autoradiography (Current approach)

Immunohistochemistry (Unavailable for OXTR)

Autohistochemistry (Novel approach)

LEGEND

BRAND

BEHAVIOR

(ASD vs. TD)

NIH NEUROBIOBANK

The Human Oxytocin System and Autism Spectrum Disorder

Oxytocin receptor distribution in the neurotypical human brain, effects of age, sex differences, and changes in autism

Genetic, genomic, and epigenetic variation in the oxytocin receptor gene and its involvement in human disease

Behavioral Studies in Animal Models of Social Attachment

Social cognition and visual attention in two species of monogamous New World Monkey: titi monkeys and owl monkeys

Biological basis of social bonding in canids: behavior, brains, & hormones in monogamous coyotes