

Highlights

- Mice living in social hierarchies express different levels of oxytocin receptor (OTR) and vasopressin 1a receptor (V1aR) binding in various brain regions according to their social status.
- Alphas and subdominants have higher OTR binding in the nucleus accumbens compared to subordinates.
- Alphas have higher OTR binding in the anterior olfactory nucleus compared to subdominants and subordinates.
- Alphas have higher OTR and lower V1aR binding in the rostral lateral septum compared to subordinates.
- Alphas have lower V1aR binding in the lateral preoptic area compared to subordinates.