

### The role of CYP2D in rat brain in methamphetamine-induced striatal dopamine and serotonin release and behavioral sensitization

Marlaina R Stocco, Ahmed A El-Sherbeni, Bin Zhao, Maria Novalen, Rachel F Tyndale

Corresponding author: Dr. Rachel F Tyndale

Departments of Pharmacology & Toxicology, Psychiatry, University of Toronto

Email address: r.tyndale@utoronto.ca

**Online Resource 2** ICV propranolol (versus vehicle) pretreatment enhanced the repeated MAMP-induced decrease in rearing response. Rats were given ICV propranolol (n = 8) or vehicle (n = 8) pretreatment 20 hr prior to 7 daily MAMP sessions, and rearing response was recorded daily from 15-45 min after injection (Experiment 3). Day 1 rearing events were excluded due to rearing behavior being disrupted by the microdialysis apparatus on day 1. **(a)** Total rearing events decreased across MAMP sessions (day 2-7) in propranolol-pretreated rats. **(b)** The slope of rearing events across sessions trended towards being lower in propranolol-pretreated rats. Day versus day 2: #p < 0.05, ##p < 0.01, ###p < 0.001. Veh, vehicle; Prl, propranolol; SD, standard deviation.

