



TEST THERAPADD 2B

Evaluation of new compounds for the treatment of cocaine addiction in rodents

Background

Cocaine addiction or severe cocaine use disorder affects about one-quarter of the estimated 14 million cocaine users worldwide. Despite a tremendous amount of research devoted to understanding this severe psychiatric disorder, the therapeutic approaches developed so far remain limited in number and efficacy. We developed a unique innovative high face and predictive validity model of transition to cocaine addiction in the rat, which allows identifying 15-20% of addict-like rats, a percentage similar to the human condition.

Assay principle

Anti-addictive compounds should prevent loss of control over cocaine use. Cocaine addiction is evaluated after protracted drug use, using the three main criteria of addiction: difficulty to limit cocaine seeking; high motivation for cocaine taking; maintenance of drug use despite negative consequences.

Assay Information

Biological models	Male rats
Methods	Cocaine intravenous self-administration
Readouts	Ability to reverse addiction criteria
Standard reference	None currently available
Turn around time	17 weeks per test

Person in charge

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