

Evaluation of neonatal dopamine-depletion in the rat as a model of attention-deficit hyperactivity disorder

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The n6-OHDA rat as a model of ADHD continues to be important in the search for new ADHD treatments. There is no general consent about how to weigh the different categories of validity in the model evaluation process. Broken or indistinct print, colored or poor quality illustrations and photographs, print bleedthrough, substandard margins, and improper alignment can adversely affect reproduction.

Evaluation of animal models of neurobehavioral disorders

In these replication approaches, major aspects of the experimental conditions are systematically varied, such as rearing and housing environments, gender and age of the animal, and the exact testing conditions that may have an impact on the generalizability of findings originating from an animal model see above. Abstract This manuscript has been reproduced from the microfilm master. The striatal extraneuronal milieu of DA and serotonin is markedly altered.

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The model of a neurobehavioral disorder must be broken down into elemental phenotypes that are observables i.

Perinatal 6

. Breese GR, Baumeister AA, McCown TJ, Emerick SG, Frye GD, Crotty K, Mueller RA 1984a Behavioral differences between neonatal and adult 6-hydroxydopamine-treated rats to dopamine agonists: relevance to neurological symptoms in clinical syndromes with reduced brain dopamine. Thus, some thesis and dissertation copies are in typewriter face, while others may be from any type of computer printer.

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Model development requires a multidisciplinary approach. Behaviorally, these rats in adulthood display spontaneous hyperlocomotor activity, attentional deficits, and cognitive impairment—all of which are acutely attenuated by the psychostimulants amphetamine AMPH and methylphenidate MPH i. Of course it will not always be possible to anticipate whether the model will accomplish the intended purpose.

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