

SCHIZOPHRENIA MODELS

It has been well established that prepulse inhibition (PPI) is decreased in symptomatic schizophrenia patients. This is thought to reflect an abnormality in sensorimotor gating of schizophrenia patients, an abnormality that is believed to account, at least in part, for their symptoms. Further evidence suggesting PPI abnormalities and schizophrenia symptoms are linked is that brain circuitry underlying both phenomena overlap considerably and evidence that drugs that improve psychotic symptoms in schizophrenia patients also improve their PPI abnormalities.

Pharmaseed provides a comprehensive array of translational research and development services, from early-stage R&D to first-in-man. Our state-of-the-art GLP-accredited laboratories and animal facility are well equipped to address the needs of all developmental stages of pharmaceutical, medical device and biotechnology products.

With more than 200 years of accumulated experience in basic and applied scientific research, Pharmaseed is your preferred choice of R&D partner.

EXPERIMENTAL SCHIZOPHRENIA MODELS

- DRUG INDUCED MODELS
 - AMPHETAMINE
 - APOMORPHINE
 - KETAMINE

OUTCOME MEASURES

- BEHAVIORAL EVALUATION
 - LOCOMOTION, STEREOTYPIC MOVEMENT, VELOCITY, DURATION – OPEN FIELD ARENA/ ACTIVITY CAGE
 - COGNITIVE TESTS – WATER-MAZE, PASSIVE AVOIDANCE, T-MAZE, SOCIAL RECOGNITION
 - PREPULSE INHIBITION – STARTLE BOX

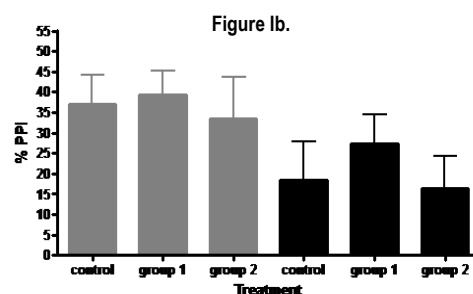
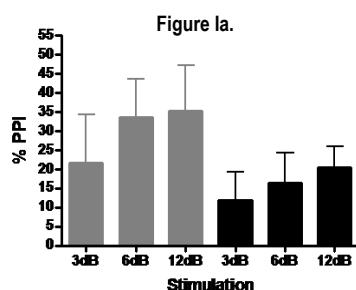


Figure 1: Prepulse inhibition test; a. measurement startle reaction to a startle-eliciting stimulus. Measurements of PPI base line levels (gray) and following apomorphine (black) b. Prepulse inhibition test; Measurements of PPI base line levels as a response of 6dB subthreshold prepulse stimulus (gray) and apomorphine (black) disrupt 6dB base line PPI response in vehicle (control) and group 1 (tested item 1) or group 2 (tested item 2).

CONTACT

Tomer Shemesh, PhD
Business Development Unit

9 Hamazmera St.
Ness Ziona 74047
Israel

Phone: +972-8-9302771 ext. 107
Fax: +972-8-9302773
E-mail: tomer@pharmaseedltd.com

