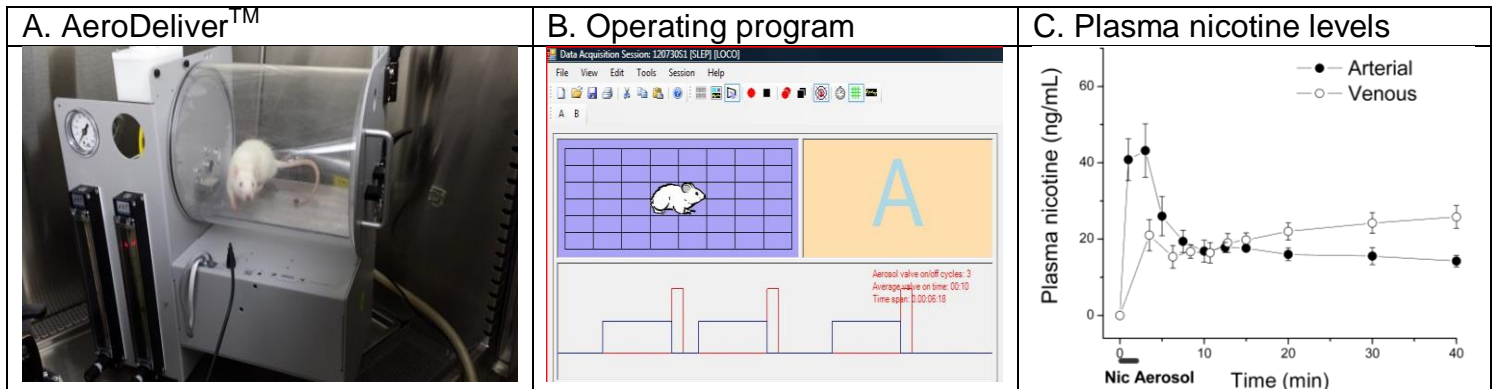




AeroDeliver™ – Aerosol Delivery System

The aerosol delivery chamber is a SmartCage module that can be used to model behaviors of drug dependency by noninvasively delivering substances in aerosol form.



A. A rat inside the aerosol delivery chamber. **B.** The Operating program CageCenter. **C.** Data showing that the aerosol chamber delivers nicotine with results similar to the kinetic profile of human cigarette smoking.

Features

- Aerosol delivery chamber which allows control over amount of aerosol of a substance entering the system's circulation and the brain of the test animal.
- One collision nebulizer, two air flowmeters with valves that regulate the airflow rate and one air pressure gauge.
- Nosepoke-operated food and/or drug administration system
- Operation using the CageCenter software with two pre-programmed modes of aerosol delivery:
 - 1. Timer- The user set schedule to control the
 - 2. Self-administered with three phases: I. Food only, II. Food and aerosol, III. Aerosol only

Applications

- Modeling of substance abuse such as nicotine abuse in smoking.
- Conditioning using aerosol and food cues to cause dependence.

Parameters Measured

- Elapsed time
- Aerosol events (open and close)
- Food administration events

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