

INTER-OFFICE CORRESPONDENCE

RICHMOND, VIRGINIA

• Dr. J. L. Charles

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• V. J. DeNoble

• Project Number 1610 (Behavioral Pharmacology) Objectives and Plans--
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OBJECTIVES:

1. To develop a behavioral profile of the reinforcing effects of nicotine and acetaldehyde.
 - a. To find a ratio(s) of acetaldehyde to nicotine that will have optimal reinforcing effects.
 - b. To examine the potential physical dependence producing properties of acetaldehyde.
 - c. To determine if congeners of acetaldehyde have reinforcing effects.

(Product with the most desirable smoke properties, natural tobacco flavors, new and modified brands)

2. Examine other behavioral interactions between nicotine and acetaldehyde using drug discriminating techniques and intraventricular administration techniques.

(Natural tobacco flavors--physiological response)

3. Develop methods for differentiating between the physical (physiological) dependence producing properties and the behavioral dependence producing properties of reinforcing agents.

(Product with the most desirable smoke properties, new blend concepts--defensive advantages)

4. Identify neuroanatomical sites that mediate the behavioral disruption induced by intraventricular nicotine administration.

(Product with the most desirable smoke properties)

5. Examine the interaction of behavioral and metabolic tolerance induced by chronic nicotine administration.

(Product with the most desirable smoke properties, natural tobacco flavors)

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