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To: . Cathy Ellis
From: . V. J. DeNoble
Subject: . Neurochemistry

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As per our conversation I have outlined below a list of four basic questions which would provide us with a starting data base to investigate the neurochemical basis of acetaldehyde's behavioral effects.

1. What is the brain to blood ratio of C¹⁴ acetaldehyde following both subcutaneous (1-10 mg/kg) and intravenous (10-50 µg/kg) injection at the following intervals post injection (1, 3, 10 and 30 minutes).
2. What is the subcellular distribution of C¹⁴ acetaldehyde?
3. Is there differential uptake of C¹⁴ acetaldehyde by different brain structures especially those that have a high concentration of dopamine?
4. Is the C¹⁴ in brain acetaldehyde?

Your suggestions concerning the feasibility and a potential time table to complete this work would be welcomed.

/mps

cc: Dr. J. L. Charles
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