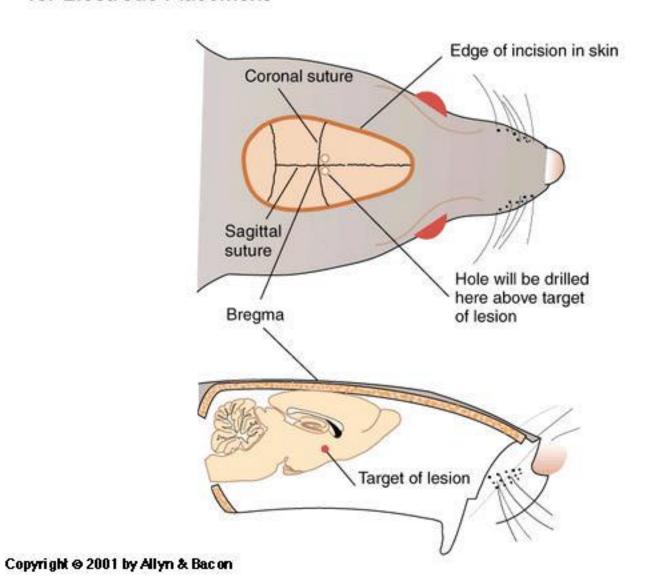


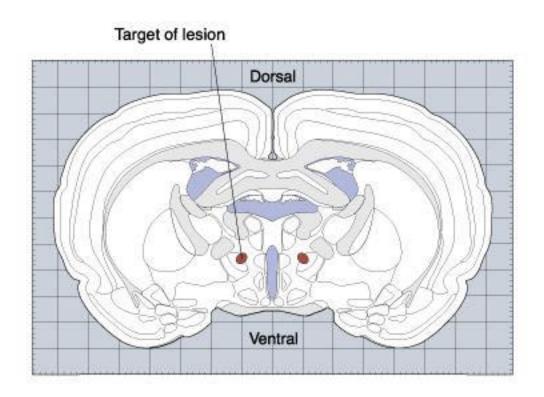
for Physiology of Behavior by Neil R. Carlson Seventh Edition

CHAPTER 5
Methods and Strategies of Research

► Relation of the Skull Sutures to a Rat's Brain, and Target for Electrode Placement

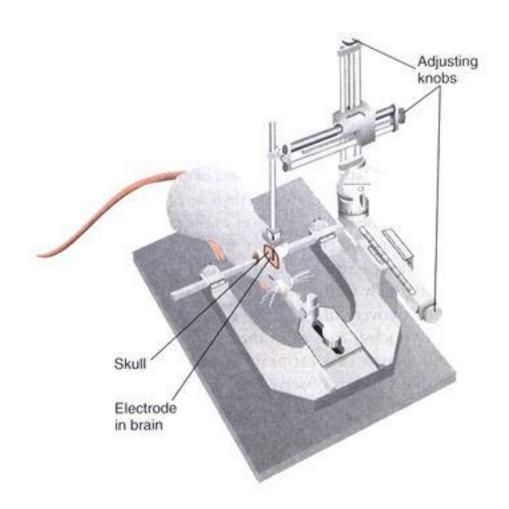


► A Sample Page from a Sterotaxic Atlas of the Rat Brain

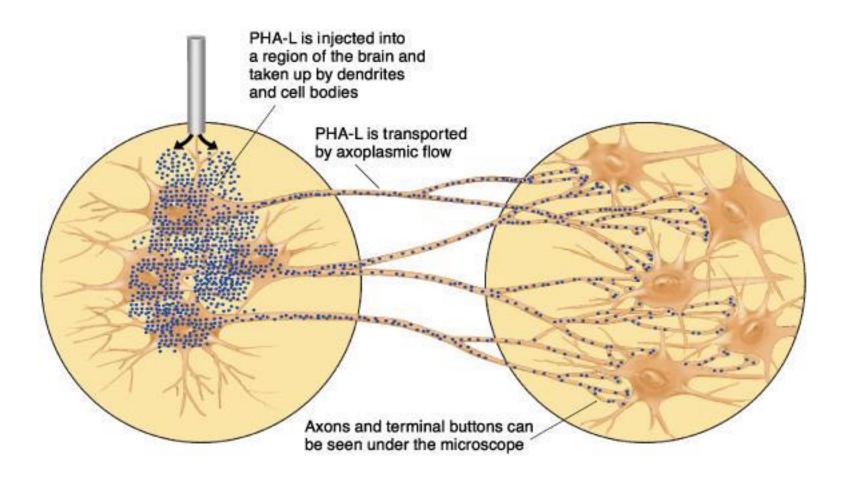


Source: Adapted from Swanson, L.W. Brain Maps: Structure of the Rat Brain. New York: Elsevier, 1992. Copyright © 2001 by Allyn & Bacon

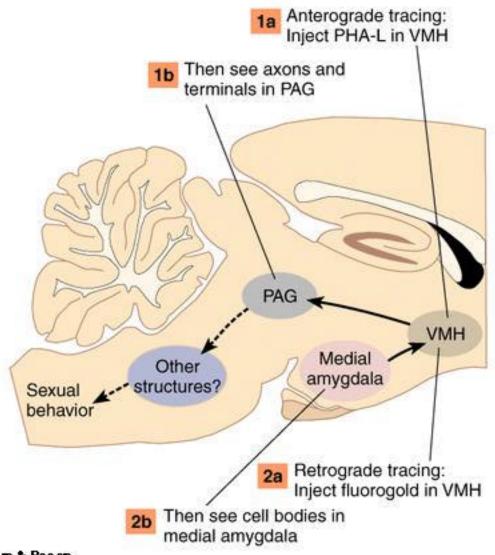
► Stereotaxic Apparatus for Performing Brain Surgery on Rats



► Rationale for the Use of PHA-L to Trace Efferent Axons

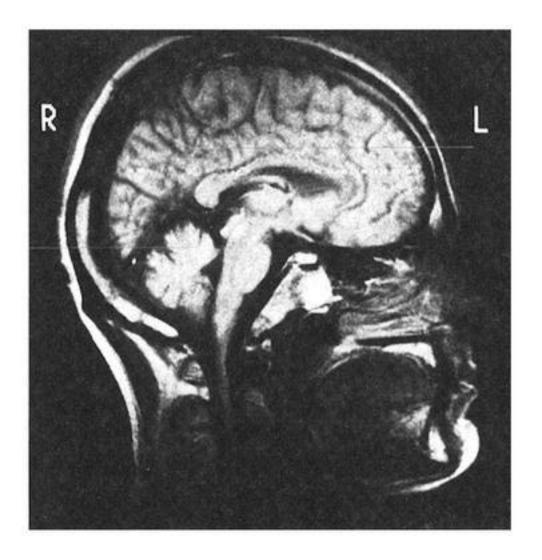


► One of the Inputs to the VMH and One of the Outputs



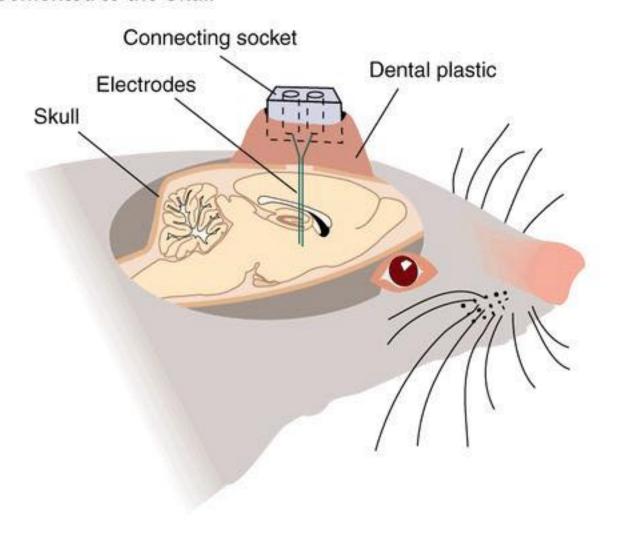
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► A Midsagittal MRI Scan of a Human Brain

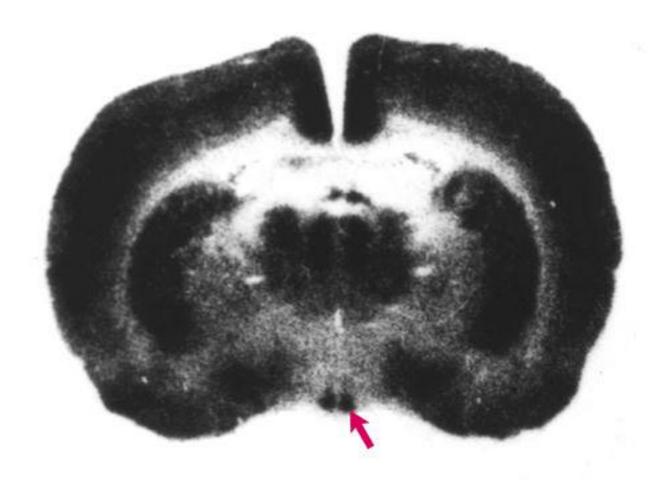


(Photo courtesy of Phillips Medical Systems) Copyright ⊕ 2001 by Allyn & Bacon

Permanently Attached Set of Electrodes, with a Connecting Socket Cemented to the Skull

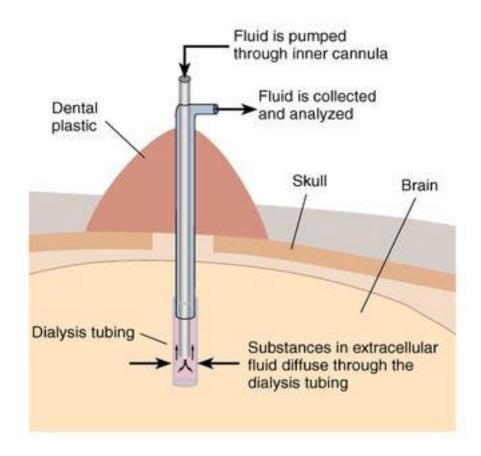


► A 2-DG Autoradiogram of a Rat Brain Showing Activity in Nuclei of the Hypothalamus



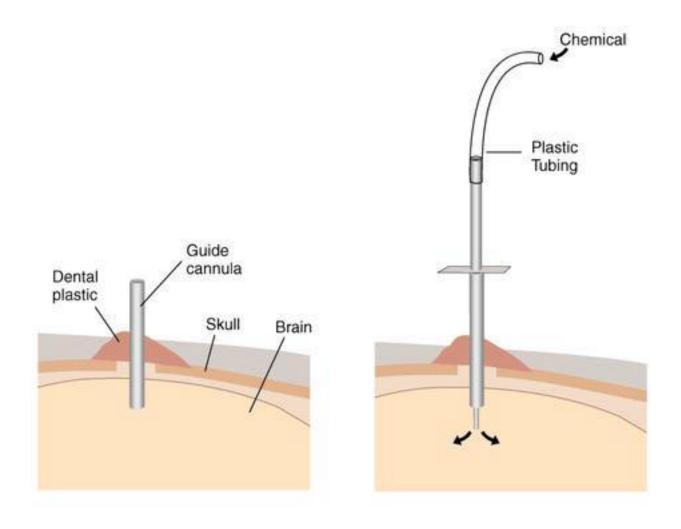
Source: From Schwartz, W.J., and Gainer, H. Science, 1977, 197, 1089–1091. Copyright ⊗ 2001 by Allyn & Bacon

▶ Microdialysis

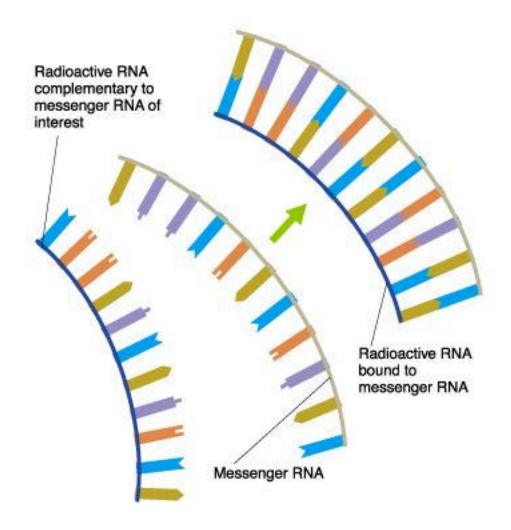


Source: Adapted from Hernandez, L., Stanley, B.G., and Hoebel, B.G. *Life Sciences*, 1986, *39*, 2629–2637. Copyright ⊗ 2001 by Allyn & Bacon

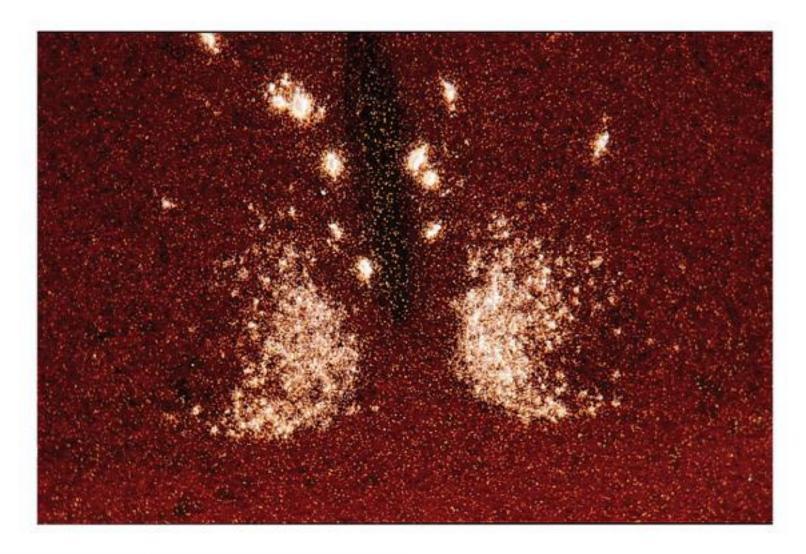
► Intracranial Cannula



► Explanation of the Use of In Situ Hybridization



► In Situ Hybridization



Source: Courtesy of Geert DeVries, University of Massachusetts. Copyright ⊗ 2001 by Allyn & Bacon