







# The Chemical Differentiation of Nerve Cells

*The development of the intricate network of nerve cells that makes up the nervous system requires each cell to “choose” a transmitter substance appropriate to its specific connections with other cells*

by Paul H. Patterson, David D. Potter and Edwin J. Furshpan

**T**he flow of information through the nervous system is determined by the particular pattern of connections made by the neurons, or nerve cells, with one another and with other

creted by the innervating neuron and the receptors present on the target cell? The investigation of these questions has involved the collaboration of electrophysiologists, biochemists and electron

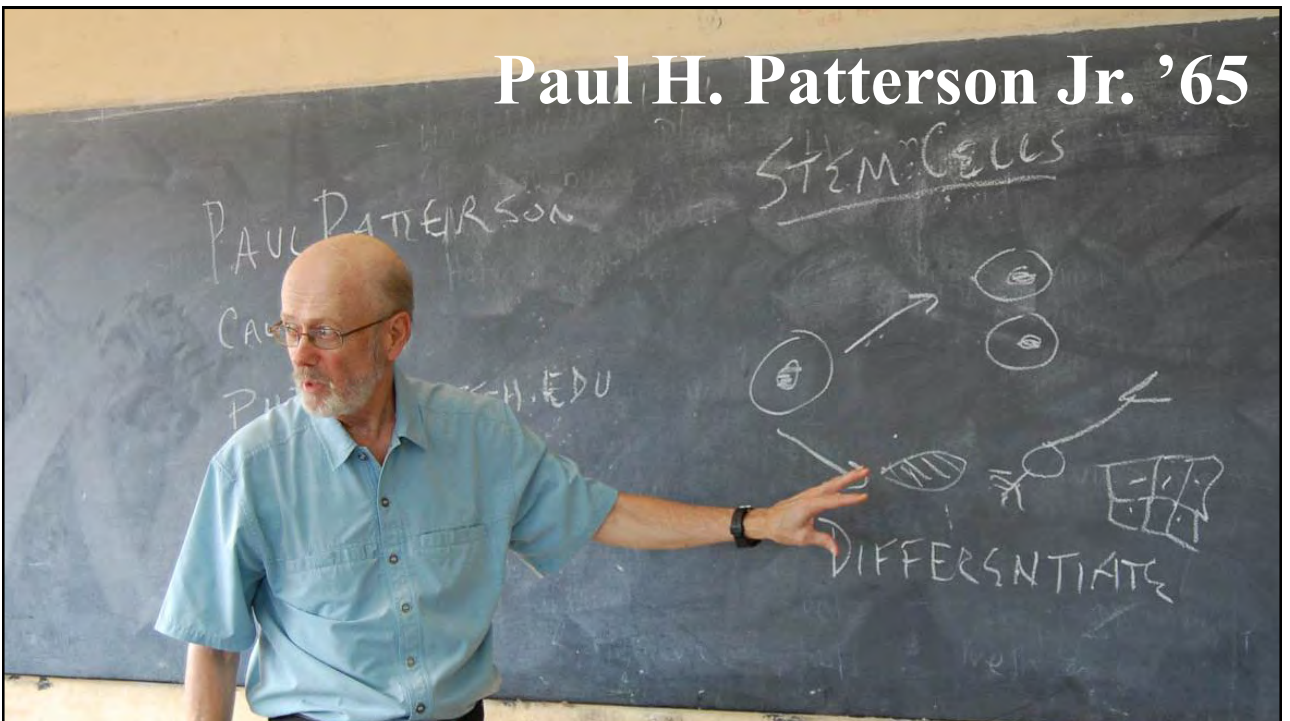
neurons do not project directly to the muscle but make excitatory cholinergic synapses on neurons in a ganglion, a station outside the spinal cord; the ganglionic neurons in turn innervate heart muscle. The sympathetic







# Paul H. Patterson Jr. '65















**Diane F.  
Alters '71**



<p><b>UNIVERSITY OF MINNESOTA</b></p>  <p>Found identification cards should be sent to the Information Booth, Morrill Hall, Minneapolis, Minnesota 55455. Lost cards will be replaced in payment of \$4.00 to the Bursar Cashier. <b>SUSPENSION OF PRIVILEGES MAY RESULT FROM MISUSE OF THIS CARD.</b></p>	<p><b>UNIVERSITY OF MINNESOTA</b></p>  <p><b>FACULTY</b></p> <p>Found identification cards should be sent to the Information Booth, Morrill Hall, University of Minnesota, Minneapolis, Minnesota 55455.</p>	<p><b>UNIVERSITY OF MINNESOTA</b></p>  <p><b>FACULTY</b></p> <p>Found identification cards should be sent to the Information Booth, Morrill Hall, University of Minnesota, Minneapolis, Minnesota 55455.</p>	<p><b>UNIVERSITY OF MINNESOTA</b></p>  <p><b>FACULTY</b></p> <p>Found identification cards should be sent to the Information Booth, Morrill Hall, University of Minnesota, Minneapolis, Minnesota 55455.</p>
--	---	---	---