INTRODUCTION

Review

The Predictive Brain: Temporal Coincidence and Temporal Order in Synaptic Learning Mechanisms
P. Read Montague and Terrence J. Sejnowski

Research papers

Lesions of the Dorsal Hippocampal Formation Interfere with Background but Not Foreground Contextual Fear Conditioning
Russell G. Phillips and Joseph E. LeDoux

Hippocampal Formation Size in Normal Human Aging: A Correlate of Delayed Secondary Memory Performance
James Golomb, Alan Kluger, Mony J. de Leon, Steven H. Ferris, Antonio Convit, Mary S. Mittelman, Jacob Cohen, Henry Rusinek, Susan De Santi, and Ajax E. George

Potentiation of Dentate Synapses Initiated by Exploratory Learning in Rats: Dissociation from Brain Temperature, Motor Activity, and Arousal
Edvard I. Moser, May-Britt Moser, and Per Andersen

Recruitment of Long-lasting and Protein Kinase A-dependent Long-term Potentiation in the CA1 Region of Hippocampus Requires Repeated Tetanization
Yan-You Huang and Eric R. Kandel

Cover  Hippocampal formation size in normal human aging. A coronal T1-weighted MRI in which the size of the hippocampal formation is determined by the number of pixels falling within the red boundaries. (See Golomb et al., p. 45, for details.)