

22. Hebb, D. O. Man's frontal lobes: a critical review. *Arch. Neurol. Psychiatry* **54**, 10–24 (1945).
23. Rosvold, H. E. & Mishkin, M. Evaluation of the effects of prefrontal lobotomy on intelligence. *Can. J. Psychol.* **4**, 122–126 (1950).
24. Milner, B. Intellectual function of the temporal lobes. *Psychol. Bull.* **51**, 42–62 (1954).
25. Scoville, W. B. & Milner, B. Loss of recent memory after bilateral hippocampal lesions. *J. Neurol. Neurosurg. Psychiatry* **220**, 11–21 (1957).
26. Hebb, D. O. & Williams, K. A method of rating animal intelligence. *J. Gen. Psychol.* **34**, 59–65 (1946).
27. Brown, R. E. & Stanford, L. The Hebb–Williams Maze: 50 years of research (1946–1996). *Soc. Neurosci. Abstr.* **23**, 110.14 (1997).
28. Hebb, D. O. The effects of early experience on problem solving at maturity. *Am. Psychol.* **2**, 306–307 (1947).
29. Mann, E. T., Elliot, C. C. Assessment of the utility of project Head Start for the culturally deprived: an evaluation of social and psychological functioning. *Train. Sch. Bull. (Vine)* **64**, 119–125 (1968).
30. Wiesel, T. N. & Hubel, D. H. Comparison of the effects of unilateral and bilateral eye closure on cortical unit responses in the kitten. *J. Neurophysiol.* **28**, 1029–1040 (1965).
31. Hebb, D. O. The effects of early and late brain injury upon test scores, and the nature of normal adult intelligence. *Proc. Am. Phil. Soc.* **85**, 275–292 (1942).
32. Hebb, D. O. Emotion in man and animal: an analysis of the intuitive processes of recognition. *Psychol. Rev.* **53**, 88–106 (1946).
33. Hebb, D. O. On the nature of fear. *Psychol. Rev.* **53**, 259–276 (1946).
34. McBride, A. F. & Hebb, D. O. Behavior of the captive bottle-nose dolphin, *Tursiops truncatus*. *J. Comp. Physiol. Psychol.* **41**, 111–123 (1948).
35. Berger, H. Über das Elektroencephalogramm des Menschen. *Archiv Für Psychiatrie und Nervenkrankheiten (Berlin)* **87**, 527–570 (1929).
36. Hull, C. L. *Principles of Behavior: An Introduction to Behavior Theory* (Appleton-Century, New York, 1943).
37. Lashley, K. S. *Brain Mechanisms and Intelligence: a Quantitative Study of Injuries to the Brain* (Univ. Chicago Press, Chicago, 1929).
38. Hebb, D. O. *A Textbook of Psychology* (Saunders, Philadelphia, 1958).
39. Hebb, D. O. Education for research. *Can. Fed. News* **8**, 53–57 (1966).
40. Hebb, D. O. What psychology is about. *Am. Psychol.* **29**, 71–79 (1974).
41. Heron, W. The pathology of boredom. *Sci. Am.* **196**, 52–56 (1957).
42. Hebb, D. O. Drives and the C.N.S. (conceptual nervous system). *Psychol. Rev.* **62**, 243–254 (1955).
43. Hebb, D. O. & Thompson, W. R. in *Handbook of Social Psychology* Vol. 1 (ed. G. Lindzey) 532–561 (Addison-Wesley, Cambridge, Massachusetts, 1954).
44. Sejnowski, T. J. The book of Hebb. *Neuron* **24**, 773–776 (1999).
45. Bi, G. & Poo, M. Synaptic modification by correlated activity: Hebb's postulate revisited. *Annu. Rev. Neurosci.* **24**, 139–166 (2001).
46. Haggblom, S. J., Warnick, R., Warnick, J. E. The 100 most eminent psychologists of the 20th century. *Rev. Gen. Psychol.* **6**, 139–152 (2002).
47. Martinez, J. L., Jr., & Glickman, S. E. Hebb revisited: perception, plasticity, and the Hebb synapse. *Contemp. Psychol.* **39**, 1018–1020 (1994).
48. Nicolelis, M. A., Fanselow, E. E., Ghazanfar, A. A. Hebb's dream: the resurgence of cell assemblies. *Neuron* **19**, 219–221 (1997).
49. Spatz, H. C. Hebb's concept of synaptic plasticity and neuronal cell assemblies. *Behav. Brain Res.* **78**, 3–7 (1996).
50. Milner, P. A brief history of the Hebbian learning rule. *Can. Psychol.* **44**, 5 (2003).
51. Hinton, G. The ups and downs of Hebb synapses. *Can. Psychol.* **44**, 10 (2003).
52. Kolb, B. The impact of the Hebbian learning rule on research in behavioural neuroscience. *Can. Psychol.* **44**, 14 (2003).
53. Sejnowski, T. J. The once and future of Hebb synapse. *Can. Psychol.* **44**, 17 (2003).
54. Adams, P. Hebb and Darwin. *J. Theor. Biol.* **195**, 419–438 (1998).
55. Stent, G. S. A physiological mechanism for Hebb's postulate of learning. *Proc. Natl Acad. Sci. USA* **70**, 997–1001 (1973).
56. Kupfermann, I. & Pinsker, H. in *Biology of Memory* (eds K. H. Pribram & D. E. Broadbent) 163–174 (Academic Press, New York, 1970).
57. Rauschecker, J. P. & Singer, W. The effects of early experience on the cat's visual cortex and their possible explanation by Hebb synapses. *J. Physiol. (Lond.)* **310**, 215–239 (1981).
58. Kappers, A. *Three Lectures on Neurobiotaxis* (Heinemann, London, 1928).
59. Sherrington, C. S. Remarks on some aspects of reflex inhibition. *Proc. R. Soc. Lond. B* **97**, 519–545 (1925).
60. Bliss, T. V. & Lomo, T. Plasticity in a monosynaptic cortical pathway. *J. Physiol. (Lond.)* **207**, 61P (1973).
61. Lin, X. Y. & Glanzman, D. L. Hebbian induction of long-term potentiation of *Aplysia* sensorimotor synapses: partial requirement for activation of an NMDA-related receptor. *Proc. R. Soc. Lond. B* **255**, 113–118 (1994).

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Competing interests statement

The authors declare that they have no competing financial interests.

Online links

FURTHER INFORMATION

American Psychological Association: <http://www.apa.org/>
Canadian Psychological Association: <http://www.cpa.ca/>
Head Start Bureau: <http://www2.acf.dhhs.gov/programs/hsb/>
International Society for the History of Neuroscience: <http://www.bri.ucla.edu/nha/ishn/>
Montreal Neurological Institute: <http://www.mni.mcgill.ca/>
National Head Start Association: <http://www.nhsa.org/>
Yerkes National Primate Research Center: <http://www.emory.edu/YERKES/>
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CORRECTION

MYELIN-ASSOCIATED INHIBITORS OF AXONAL REGENERATION IN THE ADULT MAMMALIAN CNS

Marie T. Filbin

Nature. Rev. Neuroscience **4**, 703–713 (2003)

In box 2, the second sentence of the second paragraph should read “how can this be the case when sialic acid-dependent binding seems to be non-essential for Mag to bring about inhibition?”

CORRECTION

THE HIGH-CONDUCTANCE STATE OF NEOCORTICAL NEURONS *IN VIVO*

Alain Destexhe, Michael Rudolph and Denis Paré

Nature Rev. Neurosci. **4**, 739–751 (2003)

In Figure 6b, the abscissa should read “Input frequency (Hz)”. The legend to figure 6b should read “The right panels show examples of interspike interval (ISI) histograms for stimulation at 4 ms and 12 ms interstimulus intervals, for the quiescent (bottom) and high-conductance (top) states.”