

BIOGRAPHICAL SKETCH

NAME: Yadin Dudai	AFFILIATION: Department of Neurobiology Weizmann Institute of Science Rehovot 76100, Israel <i>yadin.dudai@weizmann.ac.il</i> Professor (Emeritus)
Professional field: The Neuroscience of Learning and Memory	SECONDARY AFFILIATION Center for Neural Science New York University New York, NY 10003, USA <i>yd5@nyu.edu</i> Global Distinguished Professor

A. Education/Training

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Hebrew University	B.Sc. (in distinction)	1969	Biochemistry, Genetics (Supplements in Modern History)
Weizmann Institute of Science	Ph.D.	1974	Biophysics
California Institute of Technology	(Postdoctoral training)	1976	Neuroscience

B. Appointments and Honors**Academic Appointments**

1974	Scientist, Weizmann Institute of Science (on leave of absence)
1974	Research Fellow, California Institute of Technology, Pasadena
1976	Senior Scientist, Weizmann Institute of Science, Rehovot
1980	Associate Professor (tenured), Weizmann Institute
1988	Full Professor, Weizmann Institute

Other Scientific Research Appointments

1976	Visiting Scientist, Rudolf Magnus Institute of Pharmacology, Utrecht, Holland
1977	Visiting Scientist, University of Freiburg, Germany
1982	Visiting Professor, Columbia University Center for Neurobiology & Behavior, NY
1982	Visiting Professor, Project Zero, Harvard University
1988	Visiting Professor, Yale University
1991	Visiting Scholar, National Institutes of Mental Health, NIH, Bethesda, MD
1998	Visiting Professor, Center for Neuroscience, Edinburgh University
1999	Visiting Professor, New York University
2002	Visiting Professor, College de France, Paris
2003	Visiting Professor, Boston University
2004-	Global Distinguished Professor, New York University

Selected Academic Honors

1974	The JF Kennedy Prize
1974-7, 1982	EMBO long-term fellowships

- 1982 The Glicksman Award
 1982 Royal Society Visiting Professorship, Cambridge University (declined)
 1984 The Sara and Michael Sela Professorial Chair in Neurobiology
 1988 Annual Neuroscience Lecture, Czech Academy of Science
 1991-1995 Fogarty Scholar in Residence, National Institutes of Health, Bethesda
 1999-2001 Chair, European Network on Learning & Memory
 2002 Public Lecture Series, College de France, Paris
 2003 Inaugural Professor in Residence, Center for Memory & Brain, Boston University
 2003 D.O. Hebb Lecture, McGill University, Montreal
 2004-2005 President, European Society of Molecular and Cellular Cognition
 2004-2008 Steering team, Multidisciplinary Science of Memory Project, McDonnell Foundation, St. Louis
 2004-2012 Board, International Society of Molecular and Cellular Cognition, LA
 2005 The Annual Volker-Henn Lecture, University of Zurich, Zurich
 2006 Eduardo De Robertis Lecture and Medal, Argentina
 2008-Present The Albert and Blanch Willner Family Global Distinguished Professor of Neural Science, NYU
 2011 Max Birnstiel Lecture, IMP, Vienna
 2011 The Annual Carl P. Duncan Lecture, Northwestern University
 2011 The Frontiers in Behavioral Neuroscience Lecture, Brain and Behavior Society, Seville
 2012 The EBBS lecture, Bordeaux
 2012 Honorary Member, Argentinian Society for Neuroscience
 2012 Fellow in Neuroscience, American Association for the Advancement of Science (AAAS)
 2012 Fellow, Association of Psychological Science (APS), Washington DC
 2013 Maldonado memorial lecture in memory, Cordoba
 2013 The 2013 IPSEN Prize in Neural Plasticity, Paris
 2014- Member, European Molecular Biology Organization (EMBO)
 2014- Member, Israel National Academy of Sciences and Humanities
 2015 The Annual Picower Lecture, MIT
 2015 Friedrich Miescher Lecture, Friedrich Miescher Institute for Biomedical Research, Basel
 2017 The Annual Samuel Neaman Lecture, Technion, Haifa
 2018 The Annual Yaar-Zolokov Memorial Lecture, Open University
 2019 Braginsky Lecture in Sciences and Humanities, Weizmann Institute of Science

Editorial Boards

- Journal of Neurogenetics
 European Journal of Neuroscience (1997-2000)
 Learning & Memory, Cold Spring Harbor
 Projections
 Annual Review of Psychology (2005-2010)
 Trends in Cognitive Sciences, Cell Press
 Behavioral Science & Policy (Brookings Institute & Duke)

Academic and Scientific Administrative Positions

- 1983-1988 Chair, Board of Studies in the Life Sciences, Weizmann Institute
 1987 (part) Acting Dean, Feinberg Graduate School, Weizmann Institute
 1988-1991 Head, Scientists and Post-Doctoral Fellowships Programs, Weizmann Institute
 1991-1992 Chair, Promotion Committee, Life Sciences Faculties, Weizmann Institute
 1991-1997 Dean, Faculty of Biology, Weizmann Institute of Science
 2004-2010 Chair, Department of Neurobiology, Weizmann Institute of Science; Head, Nella and Leon Benozio Center for Neurosciences, Carl and Micaela Einhorn-Dominic Center of Brain Research, and Norman and Helen Asher Center for Brain Imaging
 2011-2020 Scientific Director, Israeli Center of Research Excellence (I-CORE) in the Cognitive Sciences

Other Selected Academic and Scientific Positions

- 1982-1985 Member, Giftedness and Excellence committee, SSRC, NY
- 1985-1986 Member, Board of Directors, The Interuniversity Laboratory for Marine Biology, Eilat
- 1985-1987 Member, Van Leer team on long-term planning of Israeli Higher Education
- 1985-1987 Member, Education Minister appointed Council, de-Shalit Israeli Center for Science Education
- 1985-2004 Steering Committee, Bat-Sheva de Rothschild Science Foundation
- 1986-1988 Member, Ad hoc Presidential Committee for scientific planning of the Weizmann Institute
- 1989-1992 Member, National Planning and Grants Committee (VATAT), Council for Higher Education, Jerusalem
- 1989-1992 Board and Management, Fund for Basic Research (turned into ISF)
- 1994-1995 Chair, Committee of Innovative Research, Ministry of Science, Jerusalem
- 1994-1995 Member, Wolf Prize Committee
- 1998-2001 Professorial Promotions Committee, Weizmann Institute of Science
- 1998-2002 Board and Executive Council, Fund for Innovation (Bikura), Israeli Academy of Science
- 2001 Invited Scientist Participant, World Economic Forum, Davos
- 2002-2003 Invited Fellow, World Knowledge Forum, Seoul
- 2002 International Scientific Review Committee, RIKEN Institute for Brain Research, Tokyo
- 2006- Scientific council, Molecular and Cellular Cognition Society (MCCS), USA
- 2006 International Scientific Review Committee, Brain Research Group, EPFL, Lausanne
- 2008 International Scientific Review Committee, Brain Research Institute, University of Zurich, Zurich
- 2009 International Scientific Review Committee, German Science Ministry, Bonn
- 2009- Scientific Board, Felsenstein Medical Research Center, Tel-Aviv University
- 2009 Chair, International Scientific Review Committee, Neuroscience and Cognition, AERES/University of Paris
- 2010-2013 Member, TELEM (Israel National Forum for Research Infrastructure) International Committee for Evaluation of Israeli Neuroscience
- 2010 Chair, TEVA Prize Committee
- 2010- Scientific Advisory Board, Aspen Brain Lab, Aspen
- 2011- Chair and delegate, Israeli Committee, International Brain Research Organization (IBRO)
- 2011-2013 Evaluation committee in Neuroscience, Champalimaud Institute of the Unknown, Lisbon
- 2011-2014 Chair of the Board of Directors (pro bono), Ort-Braude Academic Technological College, Karmiel
- 2011-2014 Member, Yad Hanadiv Foundation
- 2013-2014 Member of the International Advisory Board, The Human Brain Project (HBP), ICT Flagship of the European Committee, Lausanne and Bruxelles
- 2013-2015 Coordinator and Team Head, Work Package on Human Memory, HBP, Lausanne
- 2013 International Scientific Advisory Board, BRAIN LabEx, the French National Cluster of Excellence in Neuroscience, Bordeaux
- 2014- Chairperson of the Clore Scholars Program, Jerusalem
- 2014- Scientific Coordinator, Inter-Academy Neuroscience Meeting Series, Israel Academy of Science and German Leopoldina Academy of Science, Jerusalem and Halle
- 2017- Scientific Advisory Council (SAC), Blavatnik Awards for Young Scientists in Israel, administered by the New York Academy of Science and the Israel Academy of Science
- 2017- Senior Research Fellow, Samuel Neaman Institute for National Science Policy, Technion, Israel Institute of Technology, Haifa
- 2019- Chairperson, The Sciences Division, Israel National Academy for Sciences and Humanities, Jerusalem
- 2020- Fellow, Einstein Center Chronoi, Berlin

Selected Public Service Positions

1963-1967	Compulsory Army service, IDF (Reserve duty till 2004)
1970-1971	Coordinator, Government Committee on Engineering in Israel
1973-4, 1977	Coordinator and member, National Forum for Science Policy, President's office, Jerusalem
1991	Ad-hoc team on scientists relocation, Ministry of Science, Israel and Moscow
1994-1997	Board, Yad Weizmann, Rehovot
1994-2006	Strategic R&D committees, PM office
1997-2001	Member, Pugwash International Forums, Jerusalem and Geneva
1999-	Founding member, BaShaar, NGO for the promotion of science in Israeli society
2004-2006	Member, Committee for Reassessment of National Defence Policy ("Meridor Committee")
2009-2010	Chair, National Committee on R&D data bases, National Council for R&D, Jerusalem
2011-2014	Member, President Peres Brain Technology Initiative and member of the board, Israel Brain Technologies and the international B.R.A.I.N. Prize, Jerusalem
2012-2016	Chair, National forum for R&D infrastructure (TELEM) committee on Brain Imaging and Brain-Inspired Technology, Tel-Aviv
2013-2014	Chair, President Peres committee on Excellence Awards to Brain Research
2014-	Israel Global Strategy Project, Neaman Institute, Technion, Haifa

List of Publications

1. Kalderon N, Silman I, Blumberg S, Dudai Y (1970) A method for the purification of acetylcholinesterase by affinity chromatography. *Biochem Biophys Acta* 207, 560-562.
2. Dudai Y, Silman I (1971) The subunits of an acetylcholinesterase preparation purified from trypsin-treated electric eel tissue. *FEBS Lett* 16, 324-328.
3. Dudai Y, Silman I, Kalderon N, Blumberg S (1972) Purification by affinity chromatography of acetylcholinesterase from fresh electric eel subsequent to tryptic treatment. *Biochem Biophys Acta* 268, 138-157.
4. Dudai Y, Silman I, Shinitzky M, Blumberg S (1972) Purification by affinity chromatography of acetylcholinesterase from fresh electric eel. *Proc Natl Acad Sci USA* 69, 2400-2403.
5. Dudai Y, Silman I (1973) The effect of Ca^{++} on interaction of acetylcholinesterase with subcellular fractions of electric organ tissue from the electric eel. *FEBS Lett* 30, 49-52.
6. Silman I, Dudai Y (1973) Structure of membrane-bound acetylcholinesterase. In: *Proc. XX1st Colloquium, Protides of the Biological Fluids*, Brugge, Pergamon Press, London, pp. 257-261.
7. Shinitzky M, Dudai Y, Silman I (1973) Spectral evidence for the presence of tryptophan in the binding site of acetylcholinesterase. *FEBS Lett* 30, 125-128.
8. Dudai Y, Herzberg M, Silman I (1973) Molecular structures of acetylcholinesterase from electric organ tissue of the electric eel. *Proc Natl Acad Sci USA* 70, 2473-2476.
9. Dudai Y, Silman I (1974) The molecular weight and subunit structure of acetylcholinesterase preparations from the electric organ of the electric eel. *Biochem Biophys Res Commun* 59, 117-124.
10. Dudai Y, Silman I (1974) The effects of solubilization procedures on the release and molecular state of acetylcholinesterase from electric organ tissue. *J Neurochem* 23, 1177-1187.
11. Dudai Y, Silman I (1974) Acetylcholinesterase. In: *Methods in Enzymol., Enzyme Purification: Part B, Affinity Methods* (Jacoby WB, Wilchek M, eds.), Academic Press, NY, pp. 571-580.
12. Dudai Y (1974) *Scientific Research in Israel*. NCRD, Jerusalem (in Hebrew).
13. Dudai Y (1975) *Guide to World Science, Vol. 13: Israel*. Francis Hodgson, Gurnsey.
14. Tal E., Arnon N. Dudai Y (1975) *Science and Technology in Israel*. NCRD, Jerusalem.
15. Silman I, Dudai Y (1975) Acetylcholinesterase. In: *Research Methods in Neurochemistry*, Vol. III (Marks N, Rodnight R, eds.), Plenum Press, NY, pp. 209-252.4
16. Silman I, Dudai Y (1975) Molecular structure and catalytic activity of membrane bound acetylcholinesterase from electric organ tissue of the electric eel. *Croat Chem Acta* 47, 181-200.

17. Dudai Y, Jan YN, Byers D, Quinn WG, Benzer S (1976): *dunce*, a mutant of *Drosophila* deficient in learning. *Proc Natl Acad Sci USA* 73, 1684-1688.
18. Quinn WG, Dudai Y (1976) Memory phases in *Drosophila melanogaster*. *Nature* 262, 576-577.
19. Dudai Y (1977) Molecular states of acetylcholinesterase from *Drosophila melanogaster*. *Dros Inf Ser* 52, 65-66.
20. Dudai Y (1977) Properties of learning and memory in *Drosophila melanogaster*. *J Comp Physiol* 114, 69-89.
21. Dudai Y (1977) Demonstration of an a-bungarotoxin-binding nicotinic receptor in flies. *FEBS Lett* 76, 211-213.
22. Dudai Y, Amsterdam A (1977) Nicotinic receptors in the brain of *Drosophila melanogaster* demonstrated by autoradiography with ¹²⁵I-bungarotoxin. *Brain Res* 130, 551-555.
23. Dudai Y, Ben-Barak J (1977) Muscarinic receptor in *Drosophila melanogaster* demonstrated by binding of ³H-quinuclidinyl benzilate. *FEBS Lett* 81, 134-136.
24. Silman I, Dudai Y (1977) Acetylcholinesterase: Structure and activity of a membrane-bound enzyme. *Adv Biol Med Physics* 16, 223-234.
25. Dudai Y (1978) Properties of an a-bungarotoxin-binding cholinergic nicotinic receptor from *Drosophila melanogaster*. *Biochim Biophys Acta* 539, 505-517.
26. Segal M, Dudai Y, Amsterdam A (1978) Distribution of an a-bungarotoxin-binding cholinergic receptor in rat brain. *Brain Res* 148, 105-119.
27. Dudai Y, Segal M (1978) a-Bungarotoxin-binding sites in rat hippocampus: Localization in postsynaptic cells. *Brain Res* 154, 167-171.
28. Dudai Y, Bicker G (1978) Comparison of visual and olfactory learning in *Drosophila*. *Naturwissen* 65, 495-496.
29. Dudai Y, Yavin E (1978) Ontogenesis of muscarinic receptors and acetylcholinesterase in differentiating rat cerebral cells in culture. *Brain Res* 155, 368-373.
30. Ben-Barak J, Dudai Y (1979) Cholinergic binding sites in rat hippocampal formation: Properties and ontogenesis. *Brain Res* 166, 245-257.
31. Haim N, Nahum S, Dudai Y (1979) Properties of a putative muscarinic cholinergic receptor from *Drosophila melanogaster*. *J Neurochem* 32, 543-552.
32. Dudai Y (1979) Behavioral plasticity in a *Drosophila* mutant, *dunce*^{DB276}. *J Comp Physiol* 130, 271-275.
33. Dudai Y (1979) Modulation of calf cortex benzodiazepine-binding sites by an endogenous factor and GABAergic ligands. *Brain Res* 167, 422-425.
34. Gazit H, Silman I, Dudai Y (1979) Administration of an organophosphate causes a decrease in muscarinic receptor level in rat brain. *Brain Res* 174, 351-356.
35. Dudai Y, Yavin Z, Yavin E (1979) Binding of ³H-flunitrazepam to differentiating rat cerebral cells in culture. *Brain Res* 177, 418-422.
36. Dudai Y (1979) Cholinergic receptors in insects. *Trends Biochem Sci* 4, 40-44.
37. Dudai Y (1979) Genetic dissection of learning and memory in *Drosophila*. *Molecular Mechanisms of Biological Recognition* (Balaban M, ed.), Elsevier, Amsterdam, pp. 341-352.
38. Dudai Y, Quinn WG (1980) Genes and learning in *Drosophila*. *Trends Neurosci* 3, 28-30.
39. Dudai Y (1980) Cholinergic receptors of *Drosophila*. In: *Receptors for neurotransmitters, Hormones and Pheromones in Insects* (Sattelle D, Hall LM, Hildebrand JG, eds.), Elsevier/North Holland, NY, pp. 93-110.
40. Dudai Y, Ben-Barak J, Silman I, Gazit H (1980) Ontogenesis and modulation of cholinergic receptors in rat brain. In: *Neurotransmitters and their Receptors* (Littauer UZ et al., eds.), J. Wiley, NY, pp. 217-239.
41. Sherman-Gold R, Dudai Y (1980) Solubilization of a benzodiazepine receptor from calf cortex. In: *Neurotransmitters and their Receptors* (Littauer UZ. et al., eds), J. Wiley, NY, pp. 439-445.
42. Sharon N, Dudai Y (1980) Biochemistry in a small country: The case of Israel. *Trends Biochem Sci* 5(7): I-II.
43. Ben-Barak J, Dudai Y (1980) Early septal lesion: Effect on the development of the cholinergic system in rat hippocampus. *Brain Res* 185, 323-334.
44. Dudai Y, Nahum-Zvi S, and Haim-Granot N (1980) Cholinergic pharmacology of *Drosophila*: Comparison of *in vivo* to *in vitro* studies. *Comp Biochem Physiol* 65C, 135-138.

45. Dudai Y, Gold R (1980) Studies on the properties of benzodiazepine binding-sites from calf cortex. *Prog Biochem Pharmacol* 16, 95-108.
46. Ben-Barak J, Dudai Y (1980) Scopolamine induces an increase in muscarinic receptor level in rat hippocampus. *Brain Res* 193, 309-313.
47. Ben-Barak J, Gazit H, Dudai Y (1980) Fornix lesion prevents an organophosphate-induced decrease in muscarinic receptor level in rat hippocampus. *Brain Res* 198, 485-490.
48. Gold R, Dudai Y (1980) Solubilization of benzodiazepine binding sites from calf cortex. *Brain Res* 198, 485-490.
49. Altstein M, Dudai Y, Vogel Z (1981) Benzodiazepine receptors in chick retina: Properties and cellular localization. *Brain Res* 206, 198-202.
50. Dudai Y (1981) Modulation of a putative muscarinic receptor from *Drosophila melanogaster* by ions and a guanyl nucleotide. *Comp Biochem Physiol* 69C, 387-390.
51. Ben-Barak J, Gazit H, Silman I, Dudai Y (1981) *In vivo* modulation of the number of muscarinic receptors in rat brain by cholinergic ligands. *Eur J Pharmacol* 74, 73-81.
52. Sherman-Gold R, Dudai Y (1981) Involvement of tyrosyl residues in the binding of benzodiazepines to their brain receptors. *FEBS Lett* 131, 313-316.
53. Dudai Y. (1981) L'Intelligence de la mouche. *La Recherche* 12(118): 58-71.
54. Dudai Y (1981) Genetic approaches to insect neurochemistry. In: *Neuropharmacology of Insects* (Usherwood PNR, ed), Pitman, London, pp. 199-206.
55. Sherman-Gold R, Dudai Y (1981) α -Carboline binding to deoxycholate solubilized benzodiazepine receptors from calf cerebral cortex. *Neurosci Lett* 26, 325-328.
56. Uzzan A, Dudai Y (1982) Aminergic receptors in *Drosophila melanogaster*: Responsiveness of adenylate cyclase to putative neurotransmitters. *J Neurochem* 38, 1542-1550.
57. Dudai Y, Zvi S (1982) Aminergic receptors in *Drosophila melanogaster*: Properties of ^3H -dihydroergocryptine-binding sites. *J Neurochem* 38, 1551-1558.
58. Dudai Y (1982) High-affinity octopamine receptors in *Drosophila* revealed by binding of ^3H -octopamine. *Neurosci Lett* 28, 163-167.
59. Sherman-Gold R, Dudai Y (1983) Diethylpyrocarbonate modification of benzodiazepine receptors from calf cerebral cortex. *Neurochem Res* 8, 259-267.
60. Sherman-Gold R, Dudai Y, Fogelfield L, Fuchs S (1983): Production of high affinity antiserum to benzodiazepines. *J Immunoassay* 4, 135-146.
61. Sherman-Gold R, Dudai Y (1983) Heterogeneity in the physicochemical properties of deoxycholate-solubilized benzodiazepine receptors from calf cerebral cortex. *Neurochem Res* 8, 853-864.
62. Sherman-Gold R, Dudai Y (1983) Glycoprotein properties of benzodiazepine receptors from calf cerebral cortex. *J Neurosci Res* 10, 27-33.
63. Dudai Y (1983) Mutations affect the storage and use of memory in *Drosophila* differentially. *Proc Natl Acad Sci USA* 80, 5445-5448.
64. Dudai Y, Uzzan A, Zvi S (1983) Abnormal activity of adenylate cyclase in the *Drosophila* memory mutant *rutabaga*. *Neurosci Lett* 42, 207-212.
65. Dudai Y (1983) Small brains and their memories. *Mada* 5, 225-232 (in Hebrew).
66. Sherman-Gold R, Dudai Y (1984) Molecular properties of benzodiazepine receptors from calf cerebral cortex, in: *Molecular Approaches in Neurobiology* (Soreq H, ed), J. Wiley, Chichester, pp. 77-89.
67. Dudai Y, Zvi S (1984) High-affinity ^3H -octopamine-binding sites in *Drosophila melanogaster*: Interaction with ligands and relationship to octopamine receptors. *Comp Biochem Physiol* 44C, 145-151.
68. Dudai Y, Zvi S (1984) ^3H -Serotonin binds to two classes of sites in *Drosophila* head homogenate. *Comp Biochem Physiol* 77C, 305-309.
69. Dudai Y, Zvi S (1984) Adenylate cyclase in the *Drosophila* memory mutant *rutabaga* is defective in its responsiveness to Ca^{2+} . *Neurosci Lett* 47, 119-124.
70. Dudai Y, Zvi S, Segel S (1984) A defective conditioned behavior and a defective adenylate cyclase in the *Drosophila* mutant *rutabaga*. *J Comp Physiol* 155, 569-576.
71. Dudai Y, Zvi S (1985) Multiple defects in the adenylate cyclase of *rutabaga*, a memory mutant of *Drosophila*. *J Neurochem* 45, 355-364.

72. Dudai Y, Sher B, Segal D, Yovell Y (1985) Defective responsiveness of adenylate cyclase to forskolin in the *Drosophila* memory mutant *rut*. *J Neurogenet* 2, 365-380.
73. Dudai Y (1985) Some properties of adenylate cyclase which might be important for memory formation. *FEBS Lett* 191, 165-170.
74. Dudai Y (1985) Analysis of receptors and binding sites in nervous tissue of insects, In: *Neurochemical Methods in Insect Research* (Miller TA, Breer H, eds), Springer-Verlag, NY, pp. 79-101.
75. Dudai Y (1985) Genes, enzymes and learning in *Drosophila*. *Trends Neurosci* 8, 18-22.
76. Gardner H, Dudai Y (1985): Biology and giftedness. *Items* 39(1), 1-6.
77. Dudai Y (1986) On experimental approaches and evolution, In: *The Kaleidoscope of Science, Boston Studies in the Philosophy of Science*, Vol. 94 (Ullmann-Margalit ., ed), Reidel, Dordrecht, pp. 111-115.
78. Dudai Y (1986) cAMP metabolism and memory in *Drosophila*. *Adv Cyclic Nucleotid Prot Phosphoryl Res* 20, 343-361.
79. Dudai Y (1986) *The Biology of Memories*. The Publishing House, MOD, Tel-Aviv. 91 pp. (in Hebrew).
80. Dudai Y, Buxbaum J, Corfas G, Orgad S, Segal D, Sher B, Uzzan A, Zvi S (1986) Defective cAMP metabolism and defective memory in *Drosophila*. *Acta Biochem Biophys Hung* 21, 177-192.
81. Yovell Y, Dudai Y (1987) The possible involvement of adenylate cyclase in learning and short-term memory: Experimental data and some theoretical considerations. *Isr J Med Sci* 23, 49-60.
82. Orgad S, Dudai Y, Cohen P (1987) The protein phosphatases of *Drosophila melanogaster* and their inhibitors. *Eur J Biochem* 164, 31-38.
83. Altstein M, Dudai Y, Vogel Z (1987) Angiotensin-converting enzyme associated with *Torpedo californica* electric organ membranes. *J Neurosci Res* 18, 333-340.
84. Dudai Y, Buxbaum J, Corfas G, Ofarim M (1987) Formamidines interact with *Drosophila* octopamine receptors, alter the flies' behavior and reduce their learning ability. *J Comp Physiol* 161, 739-746.
85. Buxbaum J, Dudai Y (1987) *In vitro* protein phosphorylation in head preparations from normal and mutant *Drosophila*. *J Neurochem* 49, 1161-1173.
86. Yovell Y, Kandel E, Dudai Y, Abrams T (1987) Biochemical correlates of short-term sensitization in *Aplysia* : Temporal analysis of adenylate cyclase stimulation in a perfused membrane preparation. *Proc Natl Acad Sci USA* 84, 9285-9289.
87. Dudai Y (Rapporteur), Amari SI, Bienenstock E, Dehaene S, Fuster J, Goddard GV, Konishi M, Menzel R, Mishkin M, Miller CM, Rolls ET, Shwegler HH, von der Malsburg C (1987) On neuronal assemblies and memories, In: *Molecular and Cellular Mechanisms of Learning* (Changeux JP, Konishi M, eds), Wiley, NY, pp. 399-410.
88. Dudai Y (1987) The cAMP cascade in the nervous system: Molecular sites of action and possible relevance to neuronal plasticity. *CRC Crit Rev Biochem* 22, 221-281.
89. Dudai Y (1988) Neurogenetic dissection of learning and short-term memory in *Drosophila*. *Ann Rev Neurosci* 11, 537-563.
90. Buxbaum J, Dudai Y (1988) A microtiter-based assay for protein kinase activity suitable for the analysis of large number of samples and its application for the study of *Drosophila* learning mutants. *Anal Biochem* 169, 209-215.
91. Dudai Y, Corfas G, Hazvi S (1988) What is the possible contribution of Ca²⁺-stimulated adenylate cyclase to acquisition, consolidation and retention of an associative olfactory memory in *Drosophila*. *J Comp Physiol* 162, 101-109.
92. Corfas G, Dudai Y (1989) Habituation and dishabituation of a cleaning reflex in normal and mutant *Drosophila*. *J Neurosci* 9, 56-62.
93. Buxbaum J, Dudai Y (1989) A quantitative model for the kinetics of cAMP-dependent protein kinase (type II) activity: Long-term activation of the kinase and its possible relevance to learning and memory. *J Biol Chem* 264, 9344-9351.
94. Buxbaum J, Dudai Y (1989) *In vivo* protein phosphorylation in *Drosophila* mutants defective in learning and memory. *Neurosci Lett* 104, 351-355.
95. Orgad S, Llamazares S, Dudai Y, Ferrus A (1989) The *Drosophila* mutant *tetanic* interacts with a gene complex including the structural locus of K⁺ channels and shows altered dephosphorylation and learning. *Eur J Neurosci* 1, 367-373.

96. Eliot LS, Dudai Y, Kandel ER, Abrams TW (1989) Ca^{2+} /Calmodulin sensitivity may be common to all forms of neural adenylate cyclase. *Proc Natl Acad Sci USA* 86, 9564-9568.
97. Dudai, Y. (1989): Molecular dissection of complex behaviors: Elementary mechanistic rules in search of content. In: From neuron to reading (A. Galaburda, Ed.), MIT Press, Cambridge, Mass. pp. 507-525.
98. Dudai Y (1989) Universal learning mechanisms: from genes to molecular switches. In: *Cell to cell signalling. From experiments to theoretical models* (Goldbetter A, ed), Academic Press, London, pp. 99-108.
99. Dudai Y (1989) *The Neurobiology of Memory. Concepts, Findings, Trends*. 340 pp. Oxford University Press, Oxford.
100. Dudai Y (1990) Elementary molecular devices for acquisition and retention of memory. In: *The neurobiology of learning* (Squire L, Lindenlaub E, eds), Schattauer Verlag, Stuttgart, pp. 33-43.
101. Corfas G, Dudai Y (1990) Adaptation and fatigue of a mechanosensory neuron in wild-type *Drosophila* and in memory mutants. *J Neurosci* 10, 491-499.
102. Corfas G, Dudai Y (1990) Pharmacological evidence for the involvement of the cAMP cascade in sensory fatigue. *J Comp Physiol A* 167, 437-440.
103. Orgad S, Brewis ND, Alphey L, Axton JM, Dudai Y, Cohen PTW (1990) The structure of protein phosphatase 2A is as highly conserved as that of protein phosphatase 1. *FEBS Lett* 275: 44-48.
104. Corfas G, Dudai Y (1991) Memory mutations and age affect the fine structure of an identified sensory neuron in *Drosophila*. *Proc Natl Acad Sci USA* 88, 7252-7256.
105. Dudai Y, Sharon N (1991) Biochemistry in a small country: The Israeli dilemma. *Trends Biochem Sci* 16(7), 251-252.
106. Dudai Y (1992) Why should 'learning' and 'memory' be redefined, (or, an agenda for focused reductionism). *Concepts Neuroscience* 3, 99-121.
107. Yovell Y, Kandel ER, Dudai Y, Abrams TW (1992) A quantitative study of the Ca^{2+} /calmodulin sensitivity of adenylyl cyclase in *Aplysia*, *Drosophila*, and rat. *J Neurochem* 59, 1736-1744.
108. Rosenblum K, Meiri N, Dudai Y (1993) Taste memory: the role of protein synthesis in gustatory cortex. *Behav Neural Biol* 59, 49-56.
109. Dudai Y (1993) Molecular devices of learning: Types and tokens. In: Memory Concepts, Basic and Clinical Aspects. Novo Nordisk Foundation Symp. 7 (Andersen P, Hvalby O, Paulsen O, Hokfelt B, eds), Elsevier, Amsterdam, pp. 65-76.
110. Dudai Y (1994) On the relevance of *in vitro* observations to *in vivo* memory. In: *Cellular and Molecular Mechanisms Underlying Higher Neural Functions* (Selverston AI, Acsher P, eds) Wiley, Chichester, pp. 71-79.
111. Barnes CA (rapporteur), Barnay A, Bindman L, Dudai Y, Fregnac Y, Ito M, Knopfel T, Lisberger SG, Moulins M, Morris RGM, Movshon JA, Singer W, Squire LR (1994) Relating activity-dependent modifications of neuronal function to changes in neural systems and behavior. In: *Cellular and Molecular Mechanisms Underlying Higher Neural Functions* (Selverston AI, Ascher P, eds) Wiley, Chichester, pp. 81-110.
112. Dudai Y (1994) Molecular devices in neuronal learning machines (or, the syntactic approach to biological learning). In: *The Memory System of the Brain* (Delacour J, ed). World Scientific, Singapore, pp. 319-336.
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