VITA

Raymond P. Kesner

Date of Birth: December 19, 1940

Place of Birth: Oran, Algeria

U.S. Citizen: Yes

Address:

Professional:

Department of Psychology

University of Utah

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Family Status: Married to Laya Kesner; two children

Education:

Wayne State University

B.S. Psychology, 1962

University of Illinois

M.S. Psychology, 1964

Ph.D. Psychology, 1965

Major: Physiological Psychology

Minor: Neurophysiology

University of Rochester

Postdoctoral Fellow, Center for Brain Research, 1965-1967

Research Interests:

My major research interests are in the theoretical and applied aspects associated with the neurobiological basis of learning and memory in both animals and humans. In recent years he has concentrated on the development of animal models paralleling mnemonic symptomatology in brain damaged patients.

Teaching Interests:

My major teaching interests concern physiological psychology and specifically the neurobiological basis of plasticity. I have also taught courses on human sexuality, comparative cognition, neuropsychology, cognitive psychopharmacology, and biological basis of human and animal information processing.

Positions:

Research and Teaching Assistant, Department of Psychology, University of Illinois, 1962-1963.

Research Assistant, Department of Physiology, University of Illinois, 1963-1965.

Postdoctoral Research Fellow, Center for Brain Research, University of Rochester, 1965-1967.

Assistant Professor, Department of Psychology, University of Utah, 1967-1971.

Fellow at Center for Advanced Study in the Behavioral Sciences, Palo Alto, California, 1971-1972.

Associate Professor, Department of Psychology, University of Utah, 1971-1975.

Professor, Department of Psychology, University of Utah, 1975-present.

Visiting Professor of Psychology, Oxford University, 1983-84. Collaboration with Edmund T. Rolls.

Ph.D. Theses Supervised:

Wilburn, M. W. The effect of graded intensities of caudate nucleus stimulation on performance of a complex motor task, 1973.

D'Andrea, J. A. Behavioral effects of resonant electromagnetic power absorption in rats, 1975.

Berman, R. F. Passive avoidance impairment in rats following cycloheximide injection into the amygdala, 1976.

Todd, J. Effects of physostigmine injection into the amygdala upon retention of passive avoidance, 1977.

Atkinson, C. A. Effects of alcohol on short- and long-term memory in rats, 1977.

Bierley, A. R. Episodic long-term memory in the rat: Effects of hippocampal stimulation, 1982.

Baker, L. J. Enhanced psychophysiological response of type A coronary patients during type A‑relevant imagery, 1982.

Ellis, M. E. The noradrenergic system of the amygdala and aversive information processing, 1982.

DiMattia, B. V. Differential contribution of parietal cortex and hippocampus in the processing of spatial information, 1985.

Hunt, M. Role of the Hippocampus in Learning and Memory of the Long-Evans Rat, 1989.

Johnson, D. The effects of lesion of the entorhinal cortex and the horizontal nucleus of the diagonal band of broca on performance of a spatial location recognition task, 1992.

Chiba, A.A. The contribution of the medial temporal structures to cognition: An attribute approach, 1993.

Hopkins, M. Memory for novel and familiar spatial, linguistic and geographical temporal distance information in hypoxic subjects, 1996.

Long, J.M. The role of the rodent hippocampus and parietal cortex in memory for spatial features, 1996.

DeCoteau, B. The effects of hippocampal and medial caudate lesions on the processing of two forms of knowledge, 1999.

Lee, I. Behavioral probing of hippocampal circuits: Hippocampal subregional functions for encoding and retrieval of spatial memory, 2002.

Gilbert, P.E. The role of the hippocampus and its subregions in mnemonic processing of information, 2002.

Vago, D.R. Theoretical and functional characterization of the direct cortical input into the CA1 subregion of the hippocampus: Behavioral modulation of the temporoammonic pathway by a nonselective dopamine agonist, 2005.

Rogers, J.L. Hippocampus and parietal cortex: Interactions and dissociations, 2005.

Churchwell, J.C. Dissociating interactions between the prefrontal cortex and amygdale in decision making: Implications for impulsive and compulsive action, 2008.

Morris, A.M. Further defining the functional properties of the dentate gyrus: Contributions to spatial representations, 2011.

Professional and Honorary Organizations:

Psi Chi, Phi Sigma

American Association for the Advancement of Science

Society for Neuroscience

Psychonomic Society

Western Psychological Association

American Psychological Society

Editorialships:

Psychobiology

Consulting Editor of Journal of Neuroscience

Neurobiology of Learning and Memory

Pharmacology Biochemistry and Behavior

Hippocampus

Behavioral Neuroscience

Additional Journals Reviewed For:

Air Force Grant Proposals

Animal Learning and Behavior

Behavioral Brain Research

Behavior and Neurobiology

Journal of Experimental Psychology: Animal Learning and Behavior

Journal of Neuroscience

NSF Grant Proposals

NIH Grant Proposals

Pharmacology Biochemistry and Behavior

Physiology and Behavior

Psychopharmacology

Honors:

1) McDonnell-Pew Visiting Fellow (1992) Oxford University, Oxford England.

2) Williams-Evans Visiting Fellow (1993) University of Otago, Dunedin, New Zealand.

3) Associate Editor, Journal of Neuroscience and Neurobiology of Learning and Memory.

4) Editor, Psychobiology (1997-2001).

1. College of Social and Behavioral Science Superior Research Award (1989).
2. Distinguished University of Utah Research Award (2000)
3. Erskine Fellowship, University of Canterbury, Christchurch, New Zealand (2002)
4. McDonnell-Pew Visiting Fellow, Oxford University, Oxford England (2005)
5. Erskine Fellowship, University of Canterbury, Christchurch, New Zealand (2006)

Service: National

1) NIMH, Cognitive Functional Neuroscience Review Committee, 1992-1996

2) Ad hoc reviewer for NSF and NIH

1. Review of Irvine program, Center for the Neurobiology of Learning and Memory (CNLM)
2. Review of MBRS-SCORE Program, The University of Texas Health Science Center at San Antonio, 2000-2001

University of Utah

University Research Committee, 1989-1992

Animal Care Committee, member of committee, 1989-1998

Animal Care Committee, Chair, 1995-1998

Review of Department of Physiology, 2000-2001

College Committees:

Research Committee, 1990-1993

Personnel Committee, 1990-1992

College Superior Research Awards, 1999-2000

Neuroscience Program:

Original member of the 5-team Steering Committee, 1984-1993

Member of the Neuroscience Task Force, 1993

Steering Committee, 1995-1996

Recruiting Committee, 1997-present

Department Committees:

1967 to present: Numerous committees including Undergraduate Committee, Graduate Committee, Personnel Committee, and Area Coordinator.

Personnel Committee, Chair, 1999-2003

Publications:

1. Paul, C., & Kesner, R. (1963). Effects of overlearning trials upon habit reversal under conditions of aversive stimulation. *Psychological Record, 13,* 361‑363.

2. Werboff, J., & Kesner, R. (1963). Learning deficits of offspring after administration of tranquilizing drugs to the mothers. *Nature, 197,* 106‑107.

3. Kesner, R., O'Kelly, L. I., & Thomas, G. J. (1965). Effects of cortical spreading depression and drugs upon audiogenic seizures in rats. Journal *of Comparative and Physiological Psychology, 59,* 280‑282.

4. Caldwell, D. J., & Kesner, R. P. (1966). Relationship of tactual stimulation and body temperature to behavior in rats of preweaning age. *Psychological Reports, 18,* 75‑78.

5. Kesner, R. P. (1966). Subcortical mechanisms of audiogenic seizure. *Experimental Neurology, 15,* 192-205.

6. Kesner, R. P., & Doty, R. W. (1966). A "tegmento‑tubercular projection" as an artifact of third nerve stimulation. *Experimental Brain Research, 2,* 328-329.

7. Kesner, R. P., & Doty, R. W. (1967). Dependence of amnestic effects upon locus of electroconvulsive stimulation. *The Physiologist, 10,* 219 (Abstract).

8. Kesner, R. P., Fiedler, P., & Thomas, G. J. (1967). Function of the midbrain reticular formation in regulating level of activity and learning in rats*. Journal of Comparative and Physiological Psychology, 63,* 452-457.

9. Kesner, R. P., & Doty, R. W. (1968). Amnesia produced in cats by local seizure activity initiated from the amygdala. *Experimental Neurology, 21,* 58-68.

10. Kesner, R. P., Gibson, W. E., & LeClair, M. J. (1970). ECS as a punishing stimulus: Dependency on route of administration. *Physiology and Behavior, 5,* 683-686.

11. Kesner, R. P., McDonough, J. H., & Doty, R. W. (1970). Diminishing amnestic effects of a second electroconvulsive seizure. *Experimental Neurology, 27,* 527-533.

12. Kesner, R. P., & Vredenburg, E. W., III. (1970). Effects of midbrain reticular lesions upon the orienting response in the rat. *Journal of Comparative and Physiological Psychology, 73,* 170-174.

13. Kesner, R. P. (1971). ECS as a punishing stimulus: Dependency on retrograde amnesia, duration of anterograde amnesia and intensity of pain. *Journal of Comparative and Physiological Psychology, 74,* 398-406.

14. Kesner, R. P., & D'Andrea, J. A. (1971). Electroconvulsive shock disrupts both information storage and retrieval. *Physiology and Behavior, 7,* 73-76.

15. McDonough, J. R., Jr. and Kesner, R. P. (1971). Amnesia produced by brief electrical stimulation of the amygdala or dorsal hippocampus in cats. *Journal of Comparative and Physiological Psychology, 77,* 171-178.

16. Kesner, R. P., & Conner, H. S. (1972). Independence of short- and long-term memory: A neural system analysis. *Science, 176,* 432-434.

17. Kesner, R. P., & D'Andrea, J. (1972). Proactive changes in level of activity as a function of footshock and electroconvulsive shock treatment. *Psychonomic Science, 28,* 161-162.

18. Wilburn, M. W., & Kesner, R. P. (1972). Differential amnestic effects produced by electrical stimulation of the caudate nucleus and nonspecific thalamic system. *Experimental Neurology, 34,* 45-50.

19. D'Andrea, J. A., & Kesner, R. P. (1973). The effects of ECS and hypoxia on information retrieval. *Physiology and Behavior, 11,* 747-752.

20. Kesner, R. P. (1973). A neural system analysis of memory storage and retrieval. *Psychological Bulletin, 80,* 177-203.

21. Kesner, R. P., & Keiser, G. (1973). Effects of midbrain reticular lesions upon aggression in the rat. *Journal of Comparative and Physiological Psychology, 84,* 194-206.

22. Kesner, R. P., & Connor, H. S. (1974). Cue‑dependent recovery from ECS-induced amnesia: Evidence for time‑dependence. *Physiological Psychology, 1,* 123-125.

23. Kesner, R. P., & Conner, H. S. (1974). Effects of electrical stimulation of limbic system and midbrain reticular formation upon short- and long-term memory. *Physiology and Behavior, 12,* 5-12.

24. Kesner, R. P., & Wilburn, M. W. (1974). A review of electrical stimulation of the brain in context of learning and retention. *Behavioral Biology, 10,* 259-293.

25. Wilburn, M. W., & Kesner, R. P. (1974). Effects of caudate nucleus stimulation upon initiation and performance of a complex motor task. *Experimental Neurology, 45,* 61-71.

26. D'Andrea, J. A., Gandhi, O. P., & Kesner, R. P. (1975). Behavioral effects of resonant electromagnetic power absorption in rats. In*: Biological effects of electromagnetic waves. A compilation of selected papers of the USNC-URSI annual meeting,* Boulder, Colorado, 1, 257-273.

27. Kesner, R. P. (1975). Brain research and social implications. *Contemporary Psychology, 20,* 38.

28. Kesner, R. P., Berman, R. F., Burton, B., & Hankins, W. G. (1975). Effects of electrical stimulation of amygdala upon neophobia and taste aversion. *Behavioral Biology, 13,* 349-358.

29. Kesner, R. P., Dixon, D. A., Pickett, D., & Berman, R. F. (1975). Experimental animal model of transient global amnesia: Role of the hippocampus. *Neuropsychologia, 13,* 465-480.

30. Berman, R. F., & Kesner, R. P. (1976). Posttrial hippocampal, amygdaloid and lateral hypothalamic electrical stimulation: Effects upon memory of an appetitive experience. *Journal of Comparative and Physiological Psychology, 90,* 260-267.

31. Kesner, R. P., Priano, D. J., & DeWitt, J. R. (1976). Time-dependent disruption of morphine tolerance by electroconvulsive shock and frontal cortical stimulation. *Science, 194,* 1079-1081.

32. Baker, L. J., Baker, T. B., & Kesner, R. P. (1977). Taste aversion learning: A comparison between young and adult rats. *Journal of Comparative and Physiological Psychology, 91,* 1168-1178.

33. Kesner, R. P. (1977). A book in search of a common theme. *Contemporary Psychology, 22,* 183-184.

34. Kesner, R. P. (1977). Aggression and the brain. *Contemporary Psychology, 22,* 870-871.

35. Kesner, R. P., & Berman, R. F. (1977). Effects of midbrain reticular formation, hippocampal and lateral hypothalamic stimulation upon recovery from neophobia and taste aversion learning. *Physiology and Behavior, 18,* 763-768.

36. Kesner, R. P., & Priano, D. J. (1977). Disruptive effects of naloxone on development of morphine tolerance. *Life Science, 21,* 509-512.

37. Kesner, R. P., & Priano, D. J. (1977). Time-dependent disruptive effects of periaqueductal gray stimulation on development of morphine tolerance. *Behavioral Biology, 21,* 462‑469.

38. Kesner, R. P., Priano, D. J., & Gold, T. (1977). Time-dependent disruptive effects of apomorphine and alpha-methyl-p-tyrosine on development of morphine tolerance. *Psychopharmacologia, 55,* 177-181.

39. Berman, R. F., Kesner, R. P., & Partlow, L. M. (1978). Passive avoidance impairment in rats following cycloheximide injection into the amygdala. *Brain Research, 158,* 171-188.

40. Todd, J. W., & Kesner, R. P. (1978). Effects of posttraining injection of cholinergic agonists and antagonists into the amygdala on retention of passive avoidance training in rats. *Journal of Comparative and Physiological Psychology, 92,* 958-968.

41. Kesner, R. P. (1979). Brain and mental activity. *Contemporary Psychology, 24,* 813-814.

42. Kesner, R. P. (1979). Hippocampus and memory. *The Behavioral and Brain Sciences, 2,* 509.

43. Bierley, R. A., & Kesner, R. P. (1980). Short‑term memory: The role of the midbrain reticular formation. *Journal of Comparative and Physiological Psychology, 94*, 519-529.

44. Kesner, R. P. (1980). An attribute analysis of memory: The role of the hippocampus. *Physiology Psychology, 8,* 189-197.

45. Kesner, R. P., & Calder, L. D. (1980). Rewarding periaqueductal gray stimulation disrupts long-term memory for passive avoidance learning. *Behavioral and Neural Biology, 30,* 237-249.

46. Baker, L. J., Kesner, R. P., & Michal, R. E. (1981). Differential effects of a reminder cue on amnesia induced by stimulation of amygdala and hippocampus. *Journal of Comparative and Physiological Psychology, 95,* 312‑321.

47. Ellis, M. E., & Kesner, R. P. (1981). Physostigmine and norepinephrine: Effects of injection into the amygdala on taste associations. *Physiology and Behavior, 27,* 203‑209.

48. Kesner, R. P., Bierley, R. A., & Pebbles, P. (1981). Short‑term memory: The role of d‑amphetamine. *Pharmacology, Biochemistry, and Behavior, 15,* 673‑676.

49. Kesner, R. P., Hardy, J., D., and Calder, L. D. (1981). Phencyclidine and behavior. I. Sensory‑motor function, activity level, taste aversion and water intake. *Pharmacology, Biochemistry, and Behavior, 15,* 7‑13.

50. Kesner, R. P., Partlow, L. M., Bush, L. G., & Berman, R. F. (1981). A quantitative regional analysis of protein synthesis inhibition in the rat brain following localized injection of cycloheximide. *Brain Research, 209,* 159‑176.

51. Partlow, L. M., Bush, L. G., Stensaas, L. J., & Kesner, R. P. (1981). A novel technique for quantitative autoradiography of labeled histological specimens. *Journal of Histochemistry and Cytochemistry, 1,* 79‑83.

52. Kesner, R. P. (1982). Brain stimulation: Effects on memory. *Behavioral and Neural Biology, 36,* 315‑367.

53. Kesner, R. P., & Andrus, R. G. (1982). Amygdala stimulation disrupts the magnitude of reinforcement contribution to long‑term memory*. Physiological Psychology, 10,* 55‑59.

54. Kesner, R. P., & Novak, J. (1982). Serial position curve in rats: Role of the dorsal hippocampus. *Science, 218,* 173‑174.

55. Bierley, R. A., Kesner, R. P., & Novak, J. M. (1983). Episodic long‑term memory in the rat: Effects of hippocampal stimulation. *Behavioral Neuroscience, 97,* 42‑48.

56. Crutcher, K. A., Kesner, R. P., & Novak, J. M. (1983). Medial septal lesions, radial arm maze performance, and sympathetic sprouting: A study of recovery of function. *Brain Research, 262, 91*‑98.

57. Ellis, M. E., & Kesner, R. P. (1983). The noradrenergic system of the amygdala and aversive information processing. *Behavioral Neuroscience, 97,* 399‑415.

58. Ellis, M. E., Berman, R. F., & Kesner, R. P. (1983). Amnesia attenuation specificity: Propranolol reverses norepinephrine but not cycloheximide‑induced amnesia. *Pharmacology, Biochemistry, & Behavior, 19,* 733‑736.

59. Kesner, R. P., & Cook, D. G. (1983). Role of habituation and classical conditioning in the development of morphine tolerance. *Behavioral Neuroscience, 97*, 4‑12.

60. Kesner, R. P., & Ellis, M. E. (1983). Memory consolidation: Brain region and neurotransmitter specificity. *Neuroscience Letters, 39,* 295‑300.

61. Kesner, R. P., & Hardy, J. D. (1983). Long‑term memory for contextual attributes: Dissociation of amygdala and hippocampus. *Behavioral Brain Research, 8,* 139‑149.

62. Kesner, R. P., Hardy, J. D., & Novak, J. M. (1983). Phencyclidine and behavior. II. Active avoidance learning and radial arm maze performance*. Pharmacology, Biochemistry, & Behavior, 18,* 351‑356.

63. Prokasy, W. F., Kesner, R. P., & Calder, L. D. (1983). Post‑trial electrical stimulation of the dorsal hippocampus facilitates acquisition of the nictitating membrane response. *Behavioral Neuroscience, 97,* 890‑896.

64. DiMattia, B. V., & Kesner, R. P. (1984). Serial position curves in rats: Automatic vs effortful information processing. *Journal of Experimental Psychology: Animal Behavior Processes, 10,* 557‑563.

65. Ellis, M. E., Clegg, D. K., & Kesner, R. P. (1984). Exhaustive memory scanning in Rattus Norvegicus: Recognition for food items. *Journal of Comparative Psychology, 98,* 194‑200.

66. Kesner, R. P. (1984). Correspondence between humans and animals in coding of temporal attributes: Role of hippocampus and prefrontal cortex. *Annals of the New York Academy of Sciences, 444,* 122‑136.

67. Kesner, R. P., Measom, M. O., Forsman, S. L., & Holbrook, T. H. (1984). Serial position curves in rats: Order memory for episodic spatial events. *Animal Learning and Behavior, 12,* 378‑382.

68. Rolls, E. T., Miyashita, Y., Cahusac, P., & Kesner, R. P. (1985). The responses of single neurons in the primate hippocampus related to the performance of memory tasks. *Society for Neuroscience Abstracts, 11,* 525.

69. Kesner, R. P. (1986). Memory and learning: Physiological bases. In R. Harre & R. Lamb (Eds.), *The Dictionary of Physiological and Clinical Psychology.*  Oxford: Basil Blackwell, Ltd.

70. Kesner, R. P. (1986). Memory in animals and humans. A review of Memory in animals and humans, by A. Mayes. *Journal of Comparative Ethology, Z. Tierpsychol.,* 84‑85.

71. Kesner, R. P., Crutcher, K. A., & Measom, M. O. (1986). Medial septal and nucleus basalis magnocellularis lesions produce order memory deficits in rats which mimic symptomatology of Alzheimer's disease. *Neurobiology of Aging, 7,* 287‑295.

72. Kesner, R. P. (1987). Is plasticity overworked? A review of E. Will, P. Schmitt, & J. C. Dalrymple‑Alford (Eds.), *Brain Plasticity, Learning and Memory for Contemporary Psychology.*

73. Kesner, R. P., & Holbrook, T. (1987). Dissociation of item and order spatial memory in rats following medial prefrontal cortex lesions. *Neuropsychologia, 25,* 653‑664.

74. Kesner, R. P., Adelstein, T., & Crutcher, K. A. (1987). Rats with nucleus basalis magnocellularis lesions mimic mnemonic symptomatology observed in patients with dementia of the Alzheimer's type. *Behavioral Neuroscience, 101,* 451‑456.

75. Kesner, R. P., DiMattia, B. V., & Crutcher, K. A. (1987). Evidence for neocortical involvement in reference memory. *Behavioral and Neural Biology, 47,* 40‑53.

76. Kesner, R. P., Hunt, M. A., & Evans, R. B. (1987). Introductory psychology texts: A real choice. A review of Josh R. Gerow, *Psychology: An Introduction;* David G. Myers, *Psychology;* John L. Vogel, *Thinking About Psychology*, for *Contemporary Psychology, 886‑887.*

77. Rolls, E. T., Miyashita, Y., Cahusac, P. M. B., Kesner, R. P., & Niki, H. (1987). Functions of the primate hippocampus: Neurophysiological evidence. *Proceedings of the International Union of Physiological Sciences, XVI,* 261.

78. Cook, D., & Kesner, R. P. (1988). Caudate nucleus and memory for egocentric localization. *Behavioral & Neural Biology, 49,* 332‑343.

79. DiMattia, B. V., & Kesner, R. P. (1988). The role of the posterior parietal association cortex in the processing of spatial event information. *Behavioral Neuroscience, 102,* 397‑403.

80. DiMattia, B. V., & Kesner, R. P. (1988). Spatial cognitive maps: Differential role of parietal cortex and hippocampal formation. *Behavioral Neuroscience, 102,* 471‑480.

81. Kesner, R. P. (1988). Reevaluation of the contribution of the basal forebrain cholinergic system to memory. *Neurobiology of Aging, 9,* 609‑616.

82. Kesner, R. P. (1988). Review of N.W. Milgram, Colin M. MacLeod, & Ted L. Petit (Eds.), *Plasticity, Learning and Memory, 2,* 337‑338.

83. Kesner, R. P., & Beers, D. (1988). Dissociation of data‑based and expectancy‑based memory following hippocampal lesions in rats. *Behavioral & Neural Biology, 50,* 46‑60.

84. Kesner, R. P., & DeSpain, M. (1988). Correspondence between rats and humans in the utilization of retrospective and prospective codes. *Animal Learning and Behavior, 16,* 299‑302.

85. Kesner, R. P., Crutcher, K. A., & Beers, D. (1988). Serial position curves for item (spatial location) information: Role of the dorsal hippocampus and medial septum*. Brain Research, 454,* 219‑226.

86. Kesner, R. P., Evans, R., & Hunt, M. (1988). Further evidence in support of the neurobiological bases of an attribute model of memory. International Journal of Neurology, pp. 184-196, The Fulton Society Memory, San Francisco, CA.

87. Kametani, H., & Kesner, R. P. (1989). Retrospective and prospective coding of information: Dissociation of parietal cortex and hippocampal formation. *Behavioral Neuroscience, 103,* 84‑89.

88. Kesner, R. P. (1989). Retrospective and prospective coding of information: Role of the medial prefrontal cortex. *Journal of Experimental Brain Research, 74,* 163‑167.

89. Kesner, R. P., & Gray, M. L. (1989). Dissociation of item and order memory following parietal cortex lesions in the rat. *Behavioral Neuroscience, 103,* 907‑910.

90. Kesner, R. P., Adelstein, T. A., & Crutcher, K. A. (1989). Equivalent spatial location memory deficits in rats with medial septum or hippocampal formation lesions and patients with dementia of the Alzheimer's type. *Brain and Cognition, 9,* 289‑300.

91. Kesner, R. P., Farnsworth, G., & DiMattia, B. V. (1989). Double‑dissociation of egocentric and allocentric space following medial prefrontal and parietal cortex lesions in the rat. *Behavioral Neuroscience, 103,* 956-961.

92. Kesner, R. P., Walser, R. D., & Winzenried, G. (1989). Central but not basolateral amygdala mediates memory for positive affective experiences. *Behavioral Brain Research, 33,* 189‑195.

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94. Kesner, R. P. (1990). Memory for frequency in Rats: Role of the hippocampus and medial prefrontal cortex. *Behavioral and Neural Biology, 53,* 402-410.

95. Kesner, R. P., Crutcher, K. A., & Omana, H. (1990). Memory deficits following nucleus basalis magnocellularis lesions may be mediated through limbic, but not neocortical, targets. *Neuroscience, 38,* 93-102.

96. Kesner, R. P. (1991). The role of the hippocampus within an attribute model of memory. *Hippocampus, 1,* 279-282.

97. Kesner, R. P., Farnsworth, G., & Kametani, H. (1992). Role of parietal cortex and hippocampus in representing spatial information. *Cerebral Cortex, 1,* 367-373.

98. Adelstein, T. B., Kesner, R. P., & Strassberg, D. S. (1992). Spatial recognition and spatial order memory in patients with dementia of the Alzheimer's type. *Neuropsychologia, 30(1),* 59-67.

99. Kesner, R. P., Berman, R. F., & Tardiff, R. (1992). Place and taste aversion learning: Role of basal forebrain, parietal cortex and amygdala. *Brain Research Bulletin, 29,* 345-353.

100. Jackson-Smith, P., Kesner, R. P., & Chiba, A. A. (1993). Continuous recognition of spatial and nonspatial stimuli in hippocampal lesioned rats. *Behavioral and Neural Biology, 59,* 107-119.

101. Kesner, R. P. (1993). Paired associate learning in the rat: Role of hippocampus, medial prefrontal cortex, and parietal cortex. *Psychobiology, 21,* 183-192.

102. Kesner, R. P., & Dakis, M. (1993). Phencyclidine disrupts acquisition and retention performance within a spatial continuous recognition memory task. *Pharmacology, Biochemistry, and Behaviour, 44,* 419-424.

103. Kesner, R. P., Bolland, B., & Dakis, M. (1993). Memory for spatial locations, motor responses, and objects: Triple dissociations among the hippocampus, caudate nucleus and extrastriate visual cortex. *Experimental Brain Research, 93,* 462-470.

104. Kesner, R. P., Dakis, M., & Bolland, B. (1993). Phencyclidine disrupts long- but not short-term memory within a spatial learning task. *Psychopharmacology, 111,* 85-90.

105. Chiba, A. A., Kesner, R. P., & Reynolds, A. (1994). Memory for spatial location as a function of temporal lag in rats: Role of hippocampus and medial prefrontal cortex. *Behavioral and Neural Biology, 61,* 123-131.

106. Hunt, M. E., Kesner, R. P., & Evans R. B. (1994). Memory for spatial location: Functional dissociation of entorhinal cortex and hippocampus, *Psychobiology, 22,* 186-194.

107. Johnson, D. L., & Kesner, R. P. (1994). The effects of lesions of the entorhinal cortex and the horizontal nucleus of the diagonal band of broca upon performance of a spatial location recognition task *Behavioral Brain Research, 61,* 1-8.

108. Kesner, R. P. (1994). Hippocampus and memory for time. *Behavioral and Brain Sciences, 17,* 487.

109. Kesner, R. P., Chiba, A. A., & Jackson-Smith, P. (1994). Rats do show primacy and recency effects in memory for lists of spatial locations: A reply to Gaffan. *Animal Learning & Behavior, 22,* 214-218.

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112. Cho, Y. H., & Kesner, R. P. (1995). Relational object association learning in rats with hippocampal lesions. *Behavioural Brain Research, 67,* 91-98.

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114. Kesner, R. P., Jackson-Smith, P., Henry, C., & Amann, K. (1995). Effects of ibogaine on sensory-motor function, activity, and spatial learning in rats. *Pharmacology, Biochemistry and Behavior, 51,* 103-109.

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11. Kesner, R. P. (1970). Chairman, Paper Session: Punishment, Fear, Physiological Measures. Rocky Mountain Psychological Association, Salt Lake City, Utah.

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13. D'Andrea, J. A., & Kesner, R. P. (November, 1970). Evidence that ECS disrupts both information storage and retrieval. Psychonomic Society, San Antonio.

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77. Kesner, R. P. (1986, October). Department of Psychology, University of North Carolina, Chapel Hill, North Carolina.

78. Kesner, R. P. (1987, April). Symposium on Animal Models of Alzheimer's Disease. Washington, D.C.

79. Kesner, R. P. (May, 1987). Parallels between animals and humans in list learning. Tutorial presented at Rocky Mountain Psychological Association, Albuquerque, New Mexico.

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83. Kesner, R. P. (1987, September). Animal models of human memory pathology. Presented at NIH, Bethesda, MD.

84. Kesner, R. P. (1987, October). Chaired Session on "Forms of Memory." Third Conference on the Neurobiology of Learning and Memory, University of California, Irvine.

85. Kesner, R. P. (1987, October). Further evidence in support of the neurobiological bases of an attribute model of memory. Presented at XIIIth International Symposium of the Fulton Society, San Francisco, CA.

86. Kesner, R. P. (1987, November). Double‑dissociation of item and order (spatial) memory following parietal vs. medial prefrontal cortex lesions. Presented at Society for Neuroscience, New Orleans, LA.

87. Walser, R. D., Kesner, R. P., & Winzenried, G. (1987, November). Central but not basolateral amygdala mediates memory for positive affective experiences. Presented at Society for Neuroscience, New Orleans, LA.

88. Kesner, R. P. (April, 1988). Chair of Symposium on "Learning and Memory in Animals." Presented at Rocky Mountain Psychological Association Meetings, Snowbird, Utah.

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92. Tardif, R., Kesner, R. P., & Berman, R. F. (November, 1988). Nucleus basalis magnocellularis is involved in taste aversion learning in rats. Presented at Society for Neuroscience, Toronto, Canada.

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99. Jackson‑Smith, J. & Kesner, R. P. (November, 1989). Does the hippocampus play a role in mediating spatial and temporal configurations? Society for Neuroscience, Phoenix, Arizona.

100. Chiba, A. & Kesner, R. P. (November, 1989). The role of the hippocampus and the medial prefrontal cortex in the temporal coding of spatial location. Society for Neuroscience, Phoenix, Arizona.

101. Madsen, J. & Kesner, R. P. (November, 1989). Temporal order information in normal subjects and patients with dementia of the Alzheimer's type. Society for Neuroscience, Phoenix, Arizona.

102. Kesner, R. P. (January, 1990). Animal models of human memory pathology. Brigham Young University, Provo, Utah.

103. Chiba, A., Kesner, R. P., Matsuo, F., Heilbrun, P. M. (November, 1990). A dissociation between verbal and spatial memory following unilateral temporal lobectomy. Society for Neuroscience, St. Louis, Missouri.

104. Hopkins, R. O. and Kesner, R. P. (November, 1990). Data based (episodic) memory for motor responses in hypoxic patients. Society for Neuroscience, St. Louis, Missouri.

105. Jackson-Smith, P. and Kesner, R. P. (November, 1990). Continuous recognition memory performance as a function of hippocampal, parietal and medial prefrontal cortex lesions. Society for Neuroscience, St. Louis, Missouri.

106. Johnson, D. L. and Kesner, R. P. (November, 1990). Double dissociation of item and order recognition memory following lesions of the horizontal nucleus of the diagonal band of broca and the nucleus basalis magnocellularis. Society for Neuroscience, St. Louis, Missouri.

107. Kesner, R. P. and Hopkins, M. O. (October, 1990). Item and order recognition memory in humans with hypoxia. Memory Disorders Research Society, Boston, Massachusetts.

108. Kesner, R. P. (June, 1991). Neural activity. Symposium on "Perspectives on Different Forms of Memory Across the Life Span: From Animals to Humans." American Psychological Association, Washington, DC.

109. Kesner, R. P. (August, 1991). Animal models of mnemonic dysfunctions associated with Alzheimer's disease. Symposium on "Neurobiological Aspects of Alzheimer's Disease". American Psychological Association, San Francisco, California.

110. Kesner, R. P. (October, 1991). Are there parallel brain-memory functions in rats and humans? Symposium on "Animal Models of Human Memory Pathology". Memory Disorders Research Society Third Annual Meeting, Boston, Massachusetts.

111. Kesner, R. P. (April, 1991). Role of the hippocampus in mediating memory in animals and humans. Institute of Physiological Psychology, University of Dusseldorf, Dusseldorf, West Germany.

112. Kesner, R. P. (April, 1991). Role of prefrontal cortex in animals and humans. College de France, Paris, France.

113. Kesner, R. P. (April, 1991). Organization of memory traces associated with the engram. Society for Neuroscience, Strasbourg, France.

114. Johnson, D. L. and Kesner, R. P. (November, 1991). Differential effects of entorhinal cortex and hippocampal lesions on performance of a spatial location recognition task. Society for Neuroscience, New Orleans, Louisiana.

115. Jackson-Smith, P., Kesner, R. P., & Chiba, A. A. (November, 1991). Continuous recognition of 3-dimensional objects in rats with hippocampal and medial prefrontal cortex lesions. Society for Neuroscience, New Orleans, Louisiana.

116. Chiba, A. A., Jackson-Smith, P., & Kesner, R. P. (November, 1991). A double dissociation between implicit and explicit spatial memory following hippocampal and parietal cortex lesions. Society for Neuroscience, New Orleans, Louisiana.

117. Hopkins, R. O. and Kesner, R. P. (November, 1991). Data-based and knowledge-based memory for temporal distances in hypoxic brain injured subjects. Society for Neuroscience, New Orleans, Louisiana.

118. Kesner, R. P., Dakis, M., & Bolland, B. L. (November, 1991). Phencyclidine disrupts learning of spatial information within a continuous recognition and a "cheese" board task. Society for Neuroscience, New Orleans, Louisiana.

119. Hopkins, R. O., Howe, S., Ershler, L., Walker, J., Weaver, L. K., & Kesner, R. P. (June, 1992). Hippocampal neuronal cellular death due to carbon monoxide poisoning in rats. Undersea and Hyperbaric Medical Society Annual Scientific Meeting, Baltimore, Maryland.

120. Kesner, R. P. (April, 1992). Learning and memory in humans with an emphasis on the role of the hippocampus. Anatomy of Amnesia Meeting, Manchester, England.

121. Chiba, A. A., Johnson, D. L. and Kesner, R. P. (October, 1992). The effects of lesions of the dorsal hippocampus or the ventral hippocampus on performance of a spatial location order recognition task. Society for Neuroscience, Anaheim, California.

122. Dakis, M., Martinez, J. S., Kesner, R. P. and Jackson-Smith, P. J. (October, 1992). Effects of phencyclidine and naloxone on learning of a spatial navigation task and performance of a spatial delayed non-matching to sample task. Society for Neuroscience, Anaheim, California.

123. Fremouw, T., Jackson-Smith, P., Shimp, C. P. and Kesner, R. P. (October, 1992). Effects of hippocampal lesions on the visual spatial attention in pigeons. Society for Neuroscience, Anaheim, California.

124. Hopkins, R.O. and R. P. Kesner (October, 1992). Memory for spatial locations and sentences in data-based and knowledge-based memory systems in hypoxic subjects. Society for Neuroscience, Anaheim, California.

125. Kesner, R. P. and Dakis, M. (October, 1992). Memory for objects, spatial locations and motor responses: Triple dissociation among the hippocampus, caudate nucleus and medial extrastriate visual cortex. Society for Neuroscience, Anaheim, California.

126. Ravindranathan, A., Jackson-Smith, P. and Kesner, R. P. (October, 1992). Effects of perirhinal cortex and medial extrastriate visual cortex lesions on memory associated with an object continuous recognition task. Society for Neuroscience, Anaheim, California.

127. Johnson, D. L., Chiba, A. A., & Kesner, R. P. (November, 1992). A comparison of data-based and knowledge-based memory in early versus middle stage alzheimer's disease, Irvine, California.

128. Chiba, A. A., Johnson, D. L., & Kesner, R. P. (November, 1992). A comparison of data-based and knowledge based memory in rats with hippocampal lesions, Irvine, California.

129. Ravindranathan, A., Jackson-Smith, J., & Kesner, R. P. (November, 1992). Continuous recognition of objects is impaired by lesions of the perirhinal cortex in rats, but not by lesions of the medial extrastriate visual cortex, Irvine, California.

130. Kesner, R. P. (May, 1992). Hippocampal and frontal memory disorders and their implication for clinical practice, Postgraduate psychiatric meeting, University of London.

131. Kesner, R. P. (April, 1993). Neurobiology of an attribute model of memory: The role of the hippocampus in animals and humans, Princeton University.

132. Kesner, R. P. (August, 1993). Neurobiology of an attribute model of memory: The role of the hippocampus in animals and humans, University of Otago, New Zealand.

133. Kesner, R. P. (August, 1993). Neurobiology of an attribute model of memory: The role of the hippocampus in animals and humans, University of Canterbury, New Zealand.

134. Kesner, R. P. (August, 1993). The role of the hippocampus in an attribute model of memory, 11th International Australiasian Winter Conference on Brain Research, New Zealand.

135. Kesner, R. P. (October, 1993). Neurobiology of an attribute model of memory: The role of the hippocampus in animals and humans, University of Texas, Houston.

136. Kesner, R. P. (October, 1993). Neurobiology of an attribute model of memory: The role of the hippocampus in animals and humans, University of North Carolina, Chapel Hill.

137. Kesner, R. P. (October, 1993). Neurobiology of an attribute model of memory: The role of the hippocampus in animals and humans, Neuroscience Special Seminar, University of Texas.

138. Fremouw, T., Jackson-Smith, P., Shimp, C. P., & Kesner, R. P. (November, 1993). Effect of hippocampal lesions on place learning in pigeons, Society for Neuroscience, Washington, DC.

139. Chiba, A. A., Kesner, R. P., Matsuo, F., & Heilbrun, M. P. (November, 1993). A dissociation between affect and recognition following unilateral temporal lobectomy including the amygdala, Society for Neuroscience, Washington, DC.

140. Dakis, M., Kesner, R. P., & Matsuo, F. (November, 1993). Effects of phencyclidine on learning of a 12-arm spatial continuous recognition memory task, Society for Neuroscience, Washington, DC.

141. Hopkins, R. O. and Kesner, R. P. (November, 1993). Memory for temporal and spatial distances for new and previously learned geographical information in hypoxic subjects, Society for Neuroscience, Washington, DC.

142. Long, J. M. and Kesner, R. P. (November, 1993). Phencyclidine (PCP) impairs temporal order memory for spatial locations in rats, Society for Neuroscience, Washington, DC.

143. Cho, Y. H. and Kesner, R. P. (November, 1993). Relational object association learning in rats with hippocampal lesions, Society for Neuroscience, Washington, DC.

144. Jackson-Smith, P., Chiba, A. A., and Kesner, R. P. (November, 1993). Continuous recognition memory for 3-dimensional objects in rats with inferotemporal cortex lesions, Society for Neuroscience, Washington, DC.

145. Cho, Y. H., Kesner, R. P. and Jaffard, R. (November, 1994). Retrograde amnesia for spatial discrimination following entorhinal cortex or parietal cortex lesions in rats, Society for Neuroscience, Miami, FL.

146. DeCoteau, W. E., Kesner, R. P. and Williams, J. M. (November, 1994). Memory for food reward magnitude: the role of the agranular insular cortex, Society for Neuroscience, Miami, FL.

147. Hopkins, R. O. and Kesner, R. P. (November, 1994). Short term memory for duration in hypoxic subjects, Society for Neuroscience, Miami, FL.

148. Jackson-Smith, P., Kesner, R. P. and Amann, K. (November, 1994). Effects of hippocampal and medial prefrontal lesions on discrimination of duration in rats, Society for Neuroscience, Miami, FL.

149. Long, J. M. and Kesner, R. P. (November, 1994). The effects of parietal cortex and hippocampal lesions on memory for allocentric distance, egocentric distance, and spatial location in rats, Society for Neuroscience, Miami, FL.

150. Kesner, R. P. (February, 1995). Neurobiology of an attribute model of memory: The role of the hippocampus in animals and humans, Northwestern University.

151. Kesner, R. P. (October, 1995). Neurobiology of an attribute model of memory: The role of the hippocampus in animals and humans, McGill University.

152. Kesner, R. P. (September, 1995). An exploration of the neural bases of memory representations of reward and context, Fourth Appalachian Conference on Behavioral Neurodynamics, Radford University, Radford, VA.

153. DeCoteau, W. E., Kesner, R. P., and Gilbert, P. (November, 1995). The role of the hippocampus in reducing spatial interference, Society for Neuroscience, San Diego, CA.

154. Hopkins, R. O., Pasker, M. C., and Kesner, R. P. (November, 1995). Impaired spatial location - abstract object paired associate learning in hypoxic subjects, Society for Neuroscience, San Diego.

155. Janis, T. and Kesner, R. P. (November, 1995). A neural system analysis of spatial recognition memory: Role of the prefrontal cortex, Society for Neuroscience, San Diego, CA.

156. Kurzina, N., Granholm, M., and Kesner, R. P. (November, 1995). Memory for object-object paired associates: Role of the prefrontal cortex, Society for Neuroscience, San Diego, CA.

157. Long, J. M. and Kesner, R. P. (November, 1995). The effects of hippocampal and parietal cortex lesions on memory for an object/spatial location paired associate task in rats, Society for Neuroscience, San Diego, CA.

158. Kesner, R. P. (January, 1996). Multiple memory systems in animals, Winter Conference on the Neurobiology of Learning & Memory, Park City, UT.

159. Kesner, R. P. (January, 1996). The cognitive revolution: Its important impact on the neurobiology of learning and memory, Winter Conference on the Neurobiology of Learning & Memory, Park City, UT.

160. Kesner, R. P. (June, 1996). A process view of hippocampal function in animals and humans. University of Texas-San Antonio, San Antonio, TX.

161. Kesner, R. P. (June, 1996). A process view of hippocampal function in animals and humans. Rice University, Houston, TX.

162. Kesner, R. P. (April, 1997). A newly integrated process oriented view of hippocampal function in animals and humans. University of Michigan, Ann Arbor, MI.

163. Carrillo, M. C., Hopkins, R. O., Gabrieli, J. D. E., Kesner, R. P., McGlinchey-Berroth, R., and Disterhoft, J.F. (October, 1997). Discrimination and discrimination-reversal in medial temporal lobe amnesics. Society for Neuroscience, New Orleans, LA.

164. Gilbert, P. E. and Kesner, R. P. (October, 1997). Role of hippocampal subregions in mediating spatial pattern separation. Society for Neuroscience, New Orleans, LA.

165. Ragozzino, M. E., Wilcox, C., Raso, M., and Kesner, R. P. (October, 1997). Differential involvement of the rodent prelimbic/infralimbic cortices and anterior cingulate cortex in strategy switching. Society for Neuroscience, New Orleans, LA.

166. DeCoteau, W. E., Kesner, R. P., and Demuth, H. (October, 1997). Effects of prefrontal quinolinic acid lesions on object-based visual scene memory. Society for Neuroscience, New Orleans, LA.

167. Kesner, R. P. (November, 1997). Temporal and spatial pattern separation as a process directly associated with hippocampal function in humans and animals. Memory Disorder Society Meeting, San Francisco, CA.

168. Kesner, R. P. (February, 1998). A newly integrated process oriented view of hippocampal function in animals and humans. Montana State University, Bozeman, MT.

169. Kesner, R. P. (August, 1998). An integrated process oriented role for the hippocampus: Multiple functions? International Behavioral Neuroscience Society, Richmond, VA.

170. Kesner, R. P. (August, 1998). Neurobiological analysis of a process-oriented view of learning and memory. American Psychological Association, San Francisco, CA.

171. DeCoteau, W. E. & Kesner, R. P. (November, 1998). A double dissociation between the hippocampus and caudate nucleus on two variants of a sequential learning task. Society for Neuroscience, Los Angeles, CA.

172. Ragozzino, M. E., Detrick, S., Newbold, E. & Kesner, R. P. (November, 1998). Prelimbic-infralimbic cortices and strategy switching: Role in place and response learning. Society for Neuroscience, Los Angeles, CA.

173. Kesner, R. P. & Harrison, S. (November, 1998). Role of the parietal cortex in mediating perceptual memory as measured in a positive or negative priming paradigm in rats. Society for Neuroscience, Los Angeles, CA.

174. Gilbert, P. E. & Kesner, R. P. (November, 1998). Role of amygdala, agranular insular, and hippocampus on anticipatory contrast paradigm with parametric differences in reward. Society for Neuroscience, Los Angeles, CA.

175. Kesner, R. P. (February, 1999). The dynamics of memory from a neural systems perspective. Neuroscience Program at East Carolina University, NC.

176. Kesner, R. P. (February, 1999). A process-oriented view of hippocampal function. Neuroscience Program at East Carolina University, NC.

177. Kesner, R. P. (February, 1999). The structural basis of memory from a neural systems perspective. Neuroscience Program at East Carolina University, NC.

178. Kesner, R. P. (March, 1999). A process-oriented view of the hippocampus: Can computational models aid in functional analysis of subregions within the hipppocampus? McDonnell-Pew and MRC Centres for Cognitive Neuroscience, University of Oxford, Oxford, United Kingdom.

179. Kesner, R. P. (March, 1999). A process-oriented view of the hippocampus: Can computational models aid in functional analysis of subregions within the hipppocampus? Department of Psychology, Cambridge University, Cambridge, United Kingdom.

180. Kesner, R. P. (March, 1999). A process-oriented view of the hippocampus: Can computational models aid in functional analysis of subregions within the hipppocampus? Department of Pharmacology, University of Edinburgh, Edinburgh, United Kingdom.

1. Kesner, R. P. (June, 1999). A newly integrated process oriented view of hippocampal function. 11th Annual Convention of the American Psychological Society, Denver, CO.
2. Ragozzino, M. E., Detrick, S. & Kesner, R. P. (October, 1999). The role of prelimbic-infralimbic dopamine D1 receptors in behavioral flexibility. Society for Neuroscience 29th Annual Meeting, Miami Beach, FL.

183. Kesner, R. P. (November, 1999). Working (episodic) memory and long-term (perceptual) memory: Double dissociation between the hippocampus and parietal cortex. Memory Disorders Research Society, Tucson, AZ.

184. Ragozzino, K. E., Ragozzino, M. E., Kesner, R. P. & Mizumori, S. J. Y. (October, 1999). The effects of temporary inactivation of the dorsomedial striatum on strategy switching in rats. Society for Neuroscience 29th Annual Meeting, Miami Beach, FL.

185. DeCoteau, W. E., Stone, A. H., Huff, L. L. & Kesner, R. P. (October, 1999). Role of hippocampus and medial caudate in memory for direction. Society for Neuroscience 29th Annual Meeting, Miami Beach, FL.

186. Kesner, R. P. (December, 1999). A multiple process oriented view of hippocampal function in rats and humans: A computational and behavioral analysis of different subregions of the hippocampus. Colloquium, Department of Neurobiology, San Antonio, TX.

187. Kesner, R. P. (January, 2000). Neurobiology of multiple memory systems: A historical and contemporary perspective. 24th Annual Winter Conference of Learning and Memory, Park City, UT.

188. Kesner, R. P. (February, 2000). Neurobiology of multiple memory systems. International

Neuropsychological Society Continuing Education Program, Denver, CO.

1. Kesner, R. P. (March, 2000). A behavioral analysis of the contribution of the hippocampus and parietal cortex to the processing of spatial information: Interactions and dissociations. Hippocampal-Cortical Interaction Conference, Dublin, Ireland.
2. Kesner, R. P. (April, 2000). Neurobiological substrates of implicit and explicit memory. Southern Society for Philosophy and Psychology 92nd Annual Meeting, Atlanta, GA.
3. Kesner, R. P. (September, 2000). Hippocampus and spatial pattern completion. Human Frontiers Meeting, Trieste, Italy.
4. Lee, I., & Kesner, R. P. (November, 2000). AP5 injections into the hippocampal CA3 region impairs the acquisition but not performance, of spatial working memory. Society for Neuroscience Program, New Orleans, LA.
5. Gilbert, P. E., & Kesner, R. P. (November, 2000). The role of hippocampal subregions in paired-associate learning. Society for Neuroscience Program, New Orleans, LA.
6. Hopkins, R. O., Kesner, R. P., & Waldram, K. (November, 2000). Impaired acquisition of declarative sequences in hypoxic subjects.
7. Kesner, R. P. (January, 2001). Progress in the neurobiology of learning and memory: 1976-2001. 25th Annual Winter Conference on the Neurobiology of Learning & Memory, Park City, UT.
8. Kesner, R. P. (April, 2001). A behavioral analysis of hippocampal function based on subregional, attribute, and process specificity. International Behavioral Neuroscience Society, Cancun, Mexico.
9. Gilbert, P. E., & Kesner, R. P. (April, 2001). The role of the hippocampus and its subregions in paired-associate learning. International Behavioral Neuroscience Society, Cancun, Mexico.
10. Kesner, R. P. (August, 2001). The role of the hippocampus in pattern separation of spatial and temporal information. 19th International Australian Winter Conference on Brain Research. Symposium entitled “Information Processing and Storage in the Medial Temporal Lobe.” Queenstown.
11. Kesner, R. P. (August, 2001). Subregional specificity of hippocampal function. University of Otago, Dunedin, New Zealand.
12. Kesner, R. P. (August, 2001). Subregional specificity of hippocampal function. University of Canterbury, Christchurch, New Zealand.
13. Kirwan, C. B., Gilbert, P. E., & Kesner, R. P. (November, 2001). Role of the hippocampus in spatial pattern completion. Society for Neuroscience 31st Annual Meeting, San Diego, CA.
14. Rogers, J. L., & Kesner, R. P. (November, 2001). Hippocampal lesions disrupt both acquisition and retention of a modified Hebb-Williams maze. Society for Neuroscience 31st Annual Meeting, San Diego, CA.
15. Lee, I., & Kesner, R. P. (November, 2001). Selective lesions of the perforant path in CA3 disrupt both encoding and retrieval of spatial memory. Society for Neuroscience 31st Annual Meeting, San Diego, CA.
16. Gilbert, P. E., Kesner, R. P., & Barua, L. A. (November, 2001). Role of the hippocampus in memory for the temporal order of a sequence of odors. Society for Neuroscience 31st Annual Meeting, San Diego, CA.
17. Kesner, R. P. (October, 2002). The role of the hippocampus in mediating spatial pattern separation in both rats and humans. Memory Disorders Research Society, San Francisco, CA.
18. Rogers, J. L., & Kesner, R. P. (November, 2002). Cholinergic modulation of the hippocampus during learning, encoding, and retrieval. Society for Neuroscience 32nd Annual Meeting, Orlando, FL.
19. Vago, D. R., Hone, A., Barrett, C., Wallenstein, G. V., & Kesner, R. P. (November, 2002). Intrahippocampal blockade of Alpha 7, Alpha 3 Beta 2, Alpha 2 Beta, and Alpha 4 Beta 4 nicotinic acetylcholine receptors disrupts early consolidation and acquisition of contextual fear. Society for Neuroscience 32nd Annual Meeting, Orlando, FL.
20. Daberknow, D. P., Kesner, R. P., & Keefe, K. A. (November, 2002). Methaphetamine-induced deficits in implicit sequential learning. Society for Neuroscience 32nd Annual Meeting, Orlando, FL.
21. Chong, C. D., Hopkins, R. O., & Kesner, R. P. (November, 2002). Decreased hippocampal activation on MEG and impaired verbal memory in patients with mesial temporal lobe sclerosis. Society for Neuroscience 32nd Annual Meeting, Orlando, FL.
22. Jackson, P. A., Kesner, R. P., & Larsen, K. (November, 2002). Exploratory object-context recognition in hippocampal and parietal-cortex lesioned rats. Society for Neuroscience 32nd Annual Meeting, Orlando, FL.
23. Kesner, R. P. (December, 2002). Differential contribution of specific brain regions in mediating perseverative behavior depending on specific behavior manipulations. American College of Neuropsychopharmacology 41st Annual Meeting, San Juan, Puerto Rico.
24. Kesner, R. P. (June, 2003). A behavioral analysis of hippocampal function based on subregional, attribute, and process specificity. Behavioral Toxicology Society 22nd Annual Meeting, Philadelphia, PA.
25. Kesner, R. P. (June, 2003). Subregional analysis of prefrontal cortex function: Role of attribute or domain specificity. Prefrontal Cortex Workshop at St. Andrews, England.
26. Kesner, R. P. (June, 2003). Subregional specificity of hippocampal function: Temporal dynamics, encoding vs retrieval, and pattern completion. University of Oxford, England.
27. Kesner, R. P. (September, 2003). Subregional analyses of hippocampal mediation of pattern separation, pattern association, and pattern completion in the rat. ACTA Neurobiologiae Experimentalis 35th Annual General Meeting of the European Brain and Behaviour Society, Barcelona, Spain.
28. Kesner, R. P. (January, 2004). The pitfalls of memory: Memory errors we all make. Utah Museum of Natural History and ASUU Lecture Series, Salt Lake City, UT.
29. Kesner, R. P. (June, 2004). Subregional analyses of hippocampal mediation of pattern separation, pattern association, and pattern completion. Festschrift for Dr. Michael Gabriel, University of Illinois – Urbana, Champaign, IL.
30. Goodrich, N. J., Kesner, R. P., Keefe, K. A. (October, 2004). Dissociating the role of the hippocampus and parietal cortex during metric and topological spatial information processing. Society for Neuroscience 34th Annual Meeting San Diego, CA.
31. Rogers, J. L., & Kesner, R. P. (October, 2004). Object-place paired associate learning requires an interaction between the hippocampus and parietal cortex. Society for Neuroscience 34th Annual Meeting San Diego, CA.
32. Vago, D. L., & Kesner, R. P. (October, 2004). The role of the direct perforant path in retrieval and detection of spatial change. Society for Neuroscience 34th Annual Meeting San Diego, CA.
33. Hunsaker, M. R., & Kesner, R. P. (October, 2004). The role of CA1 in the acquisition of an object-trace-odor paired-associate task. Society for Neuroscience 34th Annual Meeting San Diego, CA.
34. Gilbert, P. E., & Kesner, R. P. (October, 2004). The role of the caudate nucleus but not the hippocampus, in working memory and pattern separation for a motor response. Society for Neuroscience 34th Annual Meeting San Diego, CA.
35. Hunsaker, M. R., & Kesner, R. P. (2004). The role of the hippocampal efferents in the fimbria in a spatial delay nonmatch to sample task. Pfizer Summer Undergraduate Research Fellowship Symposium, Groton, CT.
36. Kesner, R. P. (February, 2005). People to People Ambassador Program. Scientific Psychology Delegation to South Africa.
37. Kesner, R. P. (March, 2005). Kevin J. Finnegan Memorial Grand Bounds in Psychiatry. “A new process approach of memory based on a subregional analysis of the hippocampus.”
38. Kesner, R. P. (May, 2005). Subregional analyses of hippocampal mediation of pattern separation, pattern association, and pattern completion. 2nd Annual “Experimental Neurogenetics of the Mouse” Workshop, Memphis, TN.
39. Kesner, R. P. (September, 2005). Different functions for different subregions of the hippocampus. University of Oxford, Department of Experimental Psychology. Oxford, England.
40. Kesner, R. P. (September, 2005). Different functions for different subregions of the hippocampus. Brain Mind Institute, Lausanne, Switzerland.
41. Vago, D. R., & Kesner, R. P. (Novembe,r 2005). An electrophysiological and behavioral characterization of the temporoammonic pathway: Disruption produces deficits in retrieval and spatial mismatch. Society for Neuroscience 35th Annual Meeting, Washington, DC.
42. Hoang, L. T.., & Kesner, R. P. (November, 2005). Effects of dorsal hippocampus lesions for temporal pattern completion. Society for Neuroscience 35th Annual Meeting, Washington, DC.
43. Jerman, T., & Kesner, R. P. (November, 2005). Disconnection analysis of CA3 and DG in mediating encoding but not retrieval in a spatial maze learning task. Society for Neuroscience 35th Annual Meeting, Washington, DC.
44. Goodrich-Hunsaker, N. J., Hunsaker, M. R., & Kesner, R. P. (November, 2005). Effects of hippocampus subregional lesions for metric and topological spatial information processing. Society for Neuroscience 35th Annual Meeting, Washington, DC.
45. Hunsaker, M. R., & Kesner, R. P. (November, 2005). The role of CA3 efferents via the fimbria in the acquisition of a spatial delay-non-match-to-sample task. Society for Neuroscience 35th Annual Meeting, Washington, DC.
46. Churchwell, J. C., & Kesner, R. P. (November, 2005). The role of the rat prefrontal cortex and hippocampus, under load, in a spatial, delayed nonmatch to sample task with distinct temporal dynamics. Society for Neuroscience 35th Annual Meeting, Washington, DC.
47. Rogers, J. L., Takahashi, M., & Kesner, R. P. (November, 2005). The role of the hippocampus and parietal cortex during the acquisition and retention of allocentric and egocentric spatial information. Society for Neuroscience 35th Annual Meeting, Washington, DC.
48. Riedy, M. D., Kesner, R. P., Hanson, G. R., Daberkow, D. P., & Keefe, K. A. (November, 2005). Predictive cue-induced reinstatement of drug-seeking behavior and *ARC* mRNA expression. Society for Neuroscience 35th Annual Meeting, Washington, DC.
49. Kesner, R. P. (January, 2006). Different functions for different subregions of the hippocampus: A process and pathway analysis. Department of Biology Neurobiology Seminar, University of Texas at San Antonio, TX.
50. Daberkow, D. P., Gentry, D., Rodesch, C. K., Kesner, R. P., & Keefe, K. A. (November, 2005). Effect of methamphetamine neurotoxicity on motor-response learning in the T-maze and cellular analysis of temporal activity by fluorescent *in sito* hybridization (catfish) labeling of *ARC* mRNA in dorsal striatum. Society for Neuroscience 35th Annual Meeting, Washington, DC.
51. Kesner, R. P. (February, 2006). Different functions for different subregions of the hippocampus: A process and pathway analysis. University of Canterbury, Christchurch, New Zealand.
52. Kesner, R. P. (April, 2006). Different functions for different subregions of the hippocampus: A process and pathway analysis. University of Otago, Dunedin, New Zealand.
53. Kesner, R. P. (May, 2006). The hippocampus plays an important role in processing mnemonic information in both animals and humans. Is there compelling evidence that the hippocampus plays a critical role in mediating conscious awareness? Presentation at a symposium entitled “The Evolution of Human Cognition and Neuroscience Symposium, Lestreilles, Provence, France.
54. Kesner, R. P. (July, 2006). Behavioural analysis of feedforward and feedback networks in the hippocampus. Presentation at a symposium entitled “Cell Assemblies and Associative Memory”, 5th Forum of European Neuroscience, Austria Center, Vienna, Austria.
55. Kesner, R. P. (August, 2006). What behavioral considerations tell us about the medial and lateral perforant path inputs. Presented at a symposium entitled “The Gateway to Memory Stores: Flow of Information from Cortex to Hippocampus Workshop”, Woodshole, MA.
56. Kesner, R. P. (August, 2006). Mnemonic functions of the hippocampus: A comparison between animals and humans. Presentation at a symposium entitled “Cognition From a Comparative Perspective”114th Convention of the American Psychological Association, New Orleans, LA.
57. Kesner, R. P. (September, 2006). Mnemonic functions of the hippocampus: A comparison between animals and humans. Presented at a symposium entitled “Neural Substrates of Perception, Learning and Memory: Parallel Studies in Animals and Humans”, Toronto, Canada.
58. Kesner, R. P. (October, 2006). Different functions for different subregions of the hippocampus: A process and pathway analysis. Massachusetts Institute of Technology, Cambridge, MA.
59. Hunsaker, M. R., Mooy, G. G., Swift, J., & Kenser, R. P. (October, 2006). Dissociating the role of the medial and lateral perforant path projections into dorsal ca3 and ca1 for spatial and nonspatial information processing. Society for Neuroscience Meeting, Atlanta, GA.
60. Goodrich-Hunsaker, N. J., Howard, J. B.& Kesner, R. P.(October, 2006) Topological relationships of spatial information. Society for Neuroscience Meeting, Atlanta, GA.
61. Hoge, J., & Kesner, R. P. (October, 2006). Effects of subregional lesions of the hippocampus on temporal order for objects. Society for Neuroscience Meeting, Atlanta, GA.
62. Kesner, R. P. (October, 2006). Different functions for different subregions of the hippocampus: A process and pathway analysis. Boston University, Boston, MA.
63. Kesner, R. P. (November, 2006). The neuropsychological, neurobiological and genetic basis of Alzheimer’s disease. UTOPSS Fall Institute, University of Utah, Salt Lake City, UT.
64. Daberkow, D. P., Riedy, M. D., Kesner, R. P., & Keefe, K. A. (September, 2007). Impact of methamphetamine-induced partial dopamine depletion on learning-induced *arc* mRNA expression in striatal efferent neurons. International Basal Ganglia Society Meeting.
65. Kesner, R. P. (October, 2007). A process analysis of memory function in animals and humans: The role of the hippocampus. The 2007 Richard D. Church Lecture, St. Lawrence University, Canton, NY.
66. Daberkow, D. P., Riedy, M.D., Kesner, R. P., & Keefe, K. A. (November, 2007). Impact of methamphetamine-induced partial dopamine depletion on learning- induced *arc* mRNA expression in striatal efferent neurons. Society for Neuroscience Meeting, San Diego, CA.
67. Daberkow, D. P., Wise L. M., & Garris, P. A. (November, 2007). Methamphetamine-induced changes in behavior and associated *in vivo* dopamine neurotransmission in the striatum. Society for Neuroscience Meeting, San Diego, CA.
68. Churchwell, J. C., & Kesner, R. P. (November, 2007). Role of the rat amygdala and oribtofrontal cortex in a continuous choice delayed-magnitude of reward task. Society of Neuroscience Meeting, San Diego, CA.
69. Hunsaker, M. R., Fieldsted, P. M., Rosenberg, J. S., & Kesner, R. P. (November, 2007). Dissociating CA1 across the dorsal-ventral axis for temporal ordering of visual objects, olfactory cues, and spatial location. Society of Neuroscience Meeting, San Diego, CA.
70. Kesner, R. P., Hunsaker, M. R., & Warthen, M. W. (November, 2007). CA3 mediates arbitrary associations and episodic memory processing based on performance of reciprocal object place recall tasks. Society for Neuroscience Meeting, San Diego, CA.
71. Kesner, R. P. (November, 2007). Different functions for different subregions of the hippocampus: A process and pathway analysis. University of Texas Health Science Center, Houston, TX.
72. Kesner, R. P. (January, 2008). Computational functions of the dentate gyrus: A behavioral analysis. 32nd Annual Winter Conference on the Neurobiology of Learning & Memory. Park City, UT.
73. Kesner, R. P. (April, 2008). A process analysis of hippocampal function: Dissociations among different hippocampal subregions. 23rd Annual Spring Meeting. University of California, Irvine. Irvine, CA.
74. Kesner, R. P. (August, 2008). A behavioral analysis of the functions of the dentate gyrus subregion of the hippocampus. Temporal Dynamics of Learning Center and the McDonnell Consortium. University of California, San Diego. San Diego, CA.
75. Kesner, R. P. (September, 2008). A new process approach of memory based on a subregional analysis of the hippocampus. Southwestern Medical Center. Dallas, TX.
76. Churchwell, J. C., & Kesner, R. P. (November, 2008). The prefrontal cortex and hippocampus interact during spatially guided goal directed action. Society for Neuroscience 2008 Conference. Washington, DC.
77. Brewer, J. A., Churchwell, J. C., & Kesner, R. P. (November, 2008). Functional dynamics of the prefrontal cortex and hippocampus in spatial working memory: Independent parallel processing and interactions. Society for Neuroscience 2008 Conference. Washington, DC.
78. Brushfield, A., M., Kesner, R. P., & Gilbert, P. E. (November, 2008). Role of the dentate gyrus in spatial pattern separation. Society for Neuroscience 2008 Conference. Washington, DC.
79. Kesner, R. P. (January, 2009). The role of the dentate gyrus in conjunctive encoding and pattern separation of spatial information. 33rd Winter Conference on the Neurobiology of Learning & Memory Conference. Park City, UT.
80. Kesner, R. P. (February, 2009). A behavioral analysis of the contribution of the hippocampus and parietal cortex to the processing of information: Interactions and dissociations. University of Washington. Seattle, WA.
81. Kesner, R. P. (February, 2009). A new process approach of memory based on a subregional analysis of the hippocampus. University of Washington. Seattle, WA.
82. Thorgusen, S., Watson, J.M., Miller, A.E., Kesner, R.P., Levy, J.A., & Lambert, A.E. (2009). The information that patients with amnestic Mild Cognitive Impairment do not forget. 79th Annual Meeting of the Rocky Mountain Psychological Association, Albuquerque, NM.
83. Thorgusen, S.R., Watson, J.M., Miller, A.E., Kesner, R.P., Levy, J.A., & Lambert, A.E. (2009). Preservation of false memory in amnestic Mild Cognitive Impairment. Poster presented at the 29th Annual National Academy of Neuropsychology Conference, New Orleans, LA.

1. Kesner, R. P. (April, 2010). Different functions for different subregions of the hippocampus: A process and pathway analysis. Distinguished Lecture Series Talk, Seoul National University, Seoul, South Korea.
2. Kesner, R. P. (April, 2010). Episodic memory reflecting the operation of the hippocampus and its interaction with prefrontal cortex in schizophrenia. Presented at a symposium entitled “Cognitive Neuroscience Treatment Research to Improve Cognition in Schizophrenia: Developing Homologous Animal Models,” St. Louis, Missouri.
3. Kesner, R. P. (May, 2010). A behavioral analysis of processes and pathways associated with CA1 function. Presented at a symposium entitled “Information Processing via the Temporoammonic Pathway to the Hippocampal CA1 Region,” Bochum, Germany.
4. Weeden, C.S., Morris, A.M., Rossi, C.A., Roberts, J.M., & Kesner, R.P. (November, 2010). The role of GABA-ergic interneurons in CA1 and dentate gyrus for sequence learning. Society for Neuroscience 2010 Conference, San Diego, CA.
5. Kesner, R.P. (February, 2011). Symposium presented on pattern separation. Winter Conference on Neural Plasticity, Moorea, Tahiti.
6. Kesner, R.P. (April, 2011). A new process approach of memory based on a sub regional analysis of the hippocampus. Symposium presented at the Conference on Mechanisms of Cognition, Learning and Memory, Bochum, Germany.
7. Hu, N., & Kesner, R.P. (2011). Acquisition of spatial and visual sequential memory tasks. University of Utah Undergraduate Research Abstracts, 11, 35.
8. Kirk, R.A., & Kesner, R.P. (2011). Exploring the effects of intraperitoneal injections of naloxone on relapse for methamphetamine conditioned cues. *University of Utah Undergraduate Research Abstracts, 11*, 44.
9. Kesner, R.P. (September, 2011). Different functions for different subregions of the hippocampus in rats and humans: A process analysis. Invited talk at Dart Neuroscience. San Diego, CA.
10. Kesner, R.P. (September, 2011). Assessment of cognition in rodents. 4th Annual Comparative Medicine Symposium, Park City, UT.
11. Kesner, R.P. (February, 2012). Different functions of different subregions of the hippocampus in rats. Invited seminar at Dartmouth College, Hanover, NH.
12. Kesner, R.P. (February, 2012). Different functions of different subregions of the hippocampus in rats. Invited talk at Ohio State University, Columbus, OH.
13. Kesner, R. (March, 2012). Role of the dentate gyrus in mediating interference as measured by a pattern separation process. Invited presentation at the 19th Annual International Conference on Comparative Cognition. Melbourne Beach, FL.
14. Kesner, R. (August, 2012). Subregional analysis of the hippocampus in mediating episodic memory. Presented at a symposium entitled “Comparative approaches to episodic memory.” American Psychological Association Annual Meeting, Orlando, FL.
15. Kesner, R. (September, 2012). Differential contributions of the dorsal and ventral hippocampus to the processing of mnemonic information in rats. Presented at a symposium entitled “Multilevel analysis of dorsal vs. ventral hippocampus in rats and posterior vs. anterior hippocampus in humans.” Memory Disorders Research Society. Davis, CA.
16. Kesner, R. (October, 2012). A process analysis of subregional contributions of hippocampus function. Invited presentation at the Department of Neurobiology and Anatomy, University of Utah, Salt Lake City, UT.
17. Kesner, R. (November, 2012). The contribution of the different subregions of the hippocampus in support of processes associated with memory. Invited talk at the Center for Neuroscience, University of California, Davis, CA.
18. Kesner, R. (November, 2012). The contribution of the different subregions of the hippocampus in support of processes associated with memory. Invited talk at the University of Bordeaux, Bordeaux, France.
19. Kesner, R. (November, 2012). The medial temporal lobe and memory function in animals and humans. Presented at a symposium entitled “Memory dysfunction in AD and in the aging brain.” Aquitaine Conferences Neurosciences Program, Arcachon, France.
20. Kesner, R. (January, 2013). The contribution of the different subregions of the hippocampus in support of processes associated with memory. Invited talk at the Department of Psychology, University of New Mexico, Albuquerque, NM.
21. Kesner, R. (November, 2013). The effects of dentate gyrus dysfunction on spatial, context, and odor pattern separation and CA3 dysfunction on cue-based pattern completion. Presented at a symposium entitled “Multilevel analysis of pattern separation and completion: A role for subregions of the hippocampus.” Society for Neuroscience Annual Meeting, San Diego, CA.

Grants:

Title Agency Amounts Dates

The midbrain reticular Public Health $2,000 1968-69

Service

# Brain mechanisms and NIMH Year 1 1969-72

memory 51,671

Year 2

30,879

Year 3

30,528

Neural pathways and pain Biomedical Sciences 4,495 1970-71

Support Grant

Brain mechanisms and memory Biomedical Sciences 1,650 1970-71

Support Grant

Brain mechanisms and memory Biomedical Science 1,000 1973-74

Brain mechanisms and memory U of U Research 3,000 1973-74

Brain mechanisms and memory NIMH 5,000 1973-74

Experimental animal models of Biomedical Science 1,650 1974-75

human memory pathology Support Grant

Brain mechanisms and memory NIMH 80,000 1975-78

Behavioral and biological Walter Reed Army 50,000 1973-74

effects of resonant Hospital

electromagnetic power

absorption in rats

Intracranial injections of U of U Research 3,972 1979-80

dopamine and norepinephrine Committee

within the amygdala and

retention of aversive experiences

An investigation into the Biomedical Science 3,000 1979-80

neurobiology of an attribute Support Grant

theory of memory

Effects of alcohol on memory NIMH 4,800 1979-80

processes in rats

Phencyclidine and behavior Biomedical Science 3,000 1980-81

Support Grant

Hippocampus and episodic U of U Research 3,160 1982

long-term memory Committee

Hippocampus and episodic Biomedical Science 4,000 1982

long-term memory Support Grant

Model of Alzheimer's NINCDS 150,000 1982-85

Disease: Cholinergic

involvement

Prefrontal cortex and NIH 121,771 1984-87

temporal information

processing

Posterior Parietal Association Biomedical Science 5,000 1986-87

Cortex and Spatial Information Support Grant

Processing

Effects of drugs on learning Pfizer Central 23,519 1987

and memory in rats Research

Winter Conference on the Office of Naval 5,000 1988

Neurobiology of Learning Research

and Memory

Neuropsychological Biomedical Science 5,000 1988-89

Assessment Alzheimer's Support Grant

Disease

Prefrontal Cortex and NIH 180,033 1987-90

Temporal Information

Processing

Effects of drugs on learning Upjohn Company 33,882 1988-90

And memory

Research on Alzheimer’s Fraternal Order of 5,000 1988-89

Disease Eagles

Research on Alzheimer’s Fraternal Order of 5,000 1989-90

Disease Eagles

Winter Conference on the Office of Naval 6,000 1990

Neurobiology of Learning Research

and Memory

An Examination of Biomedical Science 5,040 1989-90

Descending Cortical Support Grant

Projections to the Basal

Forebrain in the Rat

Neurobiology of an Attribute National Science 179,880 1990-93

Model of Memory Foundation

Phencyclidine Effects on CNS National Institute 242,569 1990-93

and Memory Function of Drug Abuse

Small Instrumentation Grant NIMH 22,909 1990-91

Program Prefrontal Cortex

and Information Processing

Behavioral Analysis of NIDA 23,189 1992-93

Ibogaine in Rats

An animal model of delayed Deseret Foundation 18,495 1991

neurological sequelae from

carbon monoxide poisoning

and possible therapeutic

approaches

Winter Conference on the Office of Naval 5,000 1994

Neurobiology of Learning Research

and Memory

Prefrontal cortex and NIH 584,739 1995-99

memory processing

Neurobiology of an NSF 169,784 1995-97

Attribute Model of

Memory

Animal Models and MacArthur 6,636 1995-97

Behavioral Assessment Foundation

to Parallel Human

Successful Aging

Operations of the Hippocampus Human Frontiers 546,000 1998-2001

and Connected Cortical Areas Science Program

in Memory and Spatial Function

(with Dr. Rolls, Dr. Treves and Dr. Mizumori)

Effects of AP5 on Top-Down University of Utah 35,000 1998

Regulation of the Nucleus Incentive Seed

Accumbens by reward and Program

Spatial Context

(with Dr. Shimp and Dr. Mizumori)

Effects of Metabotropic NPS 34,000 1998-99

# Glutamate Receptors Pharmaceuticals

on Learning

Support for 1999 Neurobiology Jannsen 7,500 1999

of Learning and Memory Pharmaceuticals

Winter Conference

A Process Analysis of National Science 292,519 1999-2001

Hippocampal Function Foundation

Support for 2000 Neurobiology Jannsen 7,500 2000

of Learning and Memory Pharmaceuticals

Winter Conference

Supplement - Undergraduate National Science 5,000 2001

Student Award Foundation

Supplement – Faculty Support National Science 13,000 2001

(Dr. Pamela Jackson, Radford Foundation

University)

Support for 2001 Neurobiology Jannsen 7,500 2001

of Learning and Memory Pharmaceuticals

Winter Conference

A Process Analysis of National Science 333,057 2002-2005

Hippocampus Function Foundation

Support for 2002 Neurobiology Jannsen 12,500 2002

of Learning and Memory Pharmaceuticals

Winter Conference

Differential Effects of NIDA 9,000 2002

Metamphetamine and Cocaine

(Kristen Keefe)

Raymond Kesner, co-investigator

Project III

Behavioral Analysis of NIH 748,750 2002-2006

Hippocampal Function

Cued Drug-Seeking Behavior University of Utah 29,000 2004

And Synaptic Plasticity in Striatal Incentive Seed Grant

Efferent Neurons (Kristen Keefe)

Raymond Kesner, co-investigator

Support for 2004 Neurobiology Forest 25,000 2004

of Memory and Learning Pharmaceuticals

Supplement – Undergraduate National Science 6,000 2004

Student Award (Naomi Goodrich) Foundation

Relapse Associated with Drug University of Utah 24,000 2007-2008

Addiction and the Role of the Incentive Seed Grant

Hippocampus (Raymond Kesner)

Kristen Keefe, co-investigator

Hippocampal Interneuron Lesions: University of Utah 50,000 2008-2009

Disruption of Learning and Synergy Grant

Memory and Role in Eileptogenesis

Raymond Kesner and Ed Dudek -

co-investigators

Hippocampus and relapse National Institute on 411,125 2012-2014

associated with drug addiction Drug Abuse

(Kristin Keefe, PI)

References:

1. Joaquin M. Fuster, Department of Psychiatry, UCLA Medical Center, Los Angeles, CA 90024.

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1. Paul E. Gold, Department of Psychology, University of Illinois at Urbana-Champaign, 603 East

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WA 98195. E-mail: [mizumori@u.washington.edu](mailto:mizumori@u.washington.edu).

5. Trevor W. Robbins, Department of Experimental Psychology, University of Cambridge, Downing St., Cambridge CB2 3EB, England, UK. E-mail: [twr2@hermes.cam.ac.uk](mailto:twr2@hermes.cam.ac.uk).

6. Edmund T. Rolls, Department of Experimental Psychology, University of Oxford, South Parks Road, Oxford 0X1 3UD, England, UK. E-mail: [edmund.rolls@psy.ox.ac.uk](mailto:edmund.rolls@psy.ox.ac.uk).

7. Mark R. Rosenzweig, Department of Psychology, University of California, 3210 Tolman Hall,

Berkeley, CA 94720-1650. E-mail: [Memory@Garnet.berkeley.edu](mailto:Memory@Garnet.berkeley.edu).

8. Norman M. White, Department of Psychology, McGill University, 1205 Doctor Penfield Avenue,

Montreal, QC H3A 1B1 Canada. E-mail: [nwhite@psych.mcgill.ca](mailto:nwhite@psych.mcgill.ca).