

CURRICULUM VITAE

BARTLEY HOEBEL

Education

Primary and Secondary:

Grade School: Pleasantville, New York

High School: Salt Lake City, Utah

College Undergraduate:

Harvard University, Cambridge, Massachusetts

Major: Psychology (1953-1957)

University of Minnesota, Minneapolis, Minnesota

Course: Organic Chemistry (Summer, 1956)

Graduate:

Rockefeller Institute, New York, New York

Major: Neurophysiology (1957-1960)

Woods Hole Marine Biological Laboratories

Course: Neurophysiology (Summer, 1958)

University of Pennsylvania, Philadelphia, Pennsylvania

Major: Physiological Psychology (1960-1962)

Degrees

A.B. - 1957 Harvard University, Cambridge Massachusetts

Ph.D. - 1962 University of Pennsylvania, Philadelphia, Pennsylvania

Docteur Honoris Causa , Universite Catholique de Louvain, Belgium, 1991

Research and Professional Positions

Laboratory Assistant, Harvard University, 1956-1957

Graduate Fellow, Rockefeller Institute, 1957-1960

Research Assistant, University of Pennsylvania, 1960-1961

Graduate Fellow, University of Pennsylvania, 1961-1962
Instructor, University of Pennsylvania, 1962-1963
Postdoctoral Fellow, University of Pennsylvania, Summer, 1963
Assistant Professor, Department of Psychology, Princeton University, 1963-1967
Associate Professor, Department of Psychology, Princeton University, 1967-1970
Professor, Department of Psychology, Princeton University, 1970-present

Honors and Awards

A.B. Magna cum Laude - Harvard, 1957
Rockefeller Institute Graduate Fellow, 1957-1960
National Institute of Health Graduate Fellow, 1961-1962
National Institute of Health Postgraduate Fellowship, Summer, 1963
Pennsylvania Psychological Society Award for Graduate Research, 1961
First Prize, American Institutes of Research Creative Talents Awards Program, 1962-1963
Prize awarded by Psychopharmacology Division of the American Psychological Association for paper with D. E. Smith and M. B. King, 1969

Fellow:

Divisions 6 & 28, American Psychological Association, 1974
American Association for the Advancement of Science, 1977
American Psychological Society, 1988
International Behavioral Neuroscience Society, 1995

Docteur Honoris Causa - 1991 Catholic University of Louvain, Belgium

Societies and Positions

(* Elected position, **President)

Sigma Xi, 1958
American Association for the Advancement of Science, 1963-present
Eastern Psychological Association, 1963-present
 Program Committee, 1981-1983
 *Board of Directors, 1993-1996
 ** President, 1997-1998
 Section Committee: Representative of the Eastern Psychological Association, 1997-2002
 Past-president, 1998-1999
Psychonomic Society, 1963-1970
American Psychological Association
 Representative to Society for Neuroscience, 1987-1990

Division 28: Psychopharmacology, 1964-present
Division 6: Behavioral Neuroscience and Comparative Psychology, 1964-present
 *Executive Board, Division 6, 1981-1983, 1987-1991
 *Representative to Council of APA for Division 6 1987-1990
 **President of Division 6, 1994-1995
 Past-president, 1996-1997
Animal Behavior Society, 1965-1970
American Physiological Society, 1969-1983
Society for Neuroscience, 1971-present
Princeton University
 Committee on Neuroscience, 1972-present
 Committee on Continuing Education, 1980-1981
 Committee on Animal Care, 1983-1998
 Chair, 1988-1998
New York Academy of Sciences, 1982-present
New Jersey Academy of Sciences, 1980-present
North American Association for the Study of Obesity, 1980-present
Society for Stimulus Properties of Drugs, 1985-1996
Society for the Study of Ingestive Behavior, 1986-present
 *Secretary, 1989-1990
 Long Range Planning Committee, 1994-1997
 **President, 1995-1996
 Past-president, 1996-1997
New Jersey Neuropsychopharmacology Society, 1987-1990
New Jersey Governor's Scientific Advisory Committee, 1985-1988
 Liaison to New Jersey Academy of Science
 American Chemical Society
 Division of Analytical Chemistry, 1988-1990
American Psychological Society, 1989-present
Committee on Problems of Drug Dependence, 1989-present
European Behavioural Pharmacology Society, 1989-present
International Behavioral Neuroscience Society, 1992-present
The International Neuropeptide Society, 1994-present
Winter Conference on Brain Research
 *Board of Directors, 1990-1991; 1997 - present

Advisory and Editorial Boards

Brain Research Instruments Co., President, 1963-present
National Institute of Drug Abuse, Ad Hoc Grant Review Committee, 1985, 1989
National Institutes of Health/NICHHD, Ad Hoc Grant Review Committee, 1990
Rockingham Association, George Washington Historical Site, Trustee, 1999-present
Delaware River Steamboat Floating Classroom Inc., President, 1999-present
Industrial Advising:
 Thompson Medical Company, 1976

Squibb Institute for Medical Research, 1980
Campbell Soup Company, 1984
Les Laboratoires Servier, 1984
Eli Lilly & Company, 1989
American Cyanamid, 1989
Interneuron Pharmaceutical, Inc. Scientific Advisory Board, 1988-present
Sanofi-Synthelabo Research, 1999

Editorial Boards:

Behavioral Biology, 1973-1976
American Journal of Physiology, 1976-1979
Appetite, 1980-present
Co-Executive Editor, 1995-present
Psychological Review, 1980-1990
Nutrition: The International Journal of Applied and Basic Nutritional Sciences,
Editorial Advisory Board: Associate Editor, 1998-1999
inSight, Daily Science News Service on the Internet, 1989-present
Reviewer for: Brain Research, Pharmacology Biochemistry and Behavior,
Psychopharmacology, Synapse, Life Sciences, Behavioral Neuroscience, Journal of
Neuroscience, Physiology and Behavior

Grants

National Institute of Mental Health, 1963-1978; 1981-1985
National Institute of Drug Abuse, 1976-1981, 1985-1993, 1996-2000
National Institute of Neurological Diseases and Stroke, 1993-1996
National Science Foundation, 1964-1970
Nutrition Foundation, 1963-1966
KROC Foundation, 1978
Thompson Medical Co., 1976-1980; 1983-1988
3-M Central Research, 1980-1981
Squibb Institute for Medical Research, 1980-1982
Campbell Soup Company, 1984-1990
Weight Watchers, 1987-1989
Les Laboratoires Servier, 1984-1990, 1991-1993
Pfizer, 1988
New Jersey Commission on Science and Technology, 1987-1990
American Cyanamid, 1989-1991
Eli Lilly and Company, 1989-1991
Scottish Rite Schizophrenia Research Program, 1989-1991
Lane Foundation, 1998-2000

Edited Books

Hoebel, B.G. & Novin, D. (Eds.) *The Neural Basis of Feeding and Reward*, Haer Institute: Brunswick, ME, 1982.

Wellman, P.J. & Hoebel, B.G. (Eds.) *Ingestive Behavior Protocols*, Society for the Study of Ingestive Behavior: New York, NY, 1997.

Invited Review Chapters

Total Number of Publications (invited review chapters and refereed scientific articles) = 150

Hoebel, B. G., "Behavioral homeostasis". In D. Bucklin (Ed.), *Biology for Individualized Study*, Harper & Row, Publ.: New York, 1969.

Hoebel, B. G. Feeding and self-stimulation. *Annals of the New York Academy of Sciences*, 1969, 157-R2, 758-778.

Hoebel, B. G. Feeding: Neural control of intake. *Annual Review of Physiology*, 1971, 33, 533-568.

Hoebel, B. G. "Brain reward and aversion systems in the control of feeding and sexual behavior". In J. K. Cole & T. B. Sonderegger (Eds.), *Nebraska Symposium on Motivation*, 1974, Vol. 22, 1975, 49-112.

Hoebel, B. G. Satiety: "Hypothalamic stimulation, anorectic drugs, neurochemical substrates". In D. Novin, W. Wyrwick & G. Bray (Eds.), *Hunger: Basic Mechanisms and Clinical Implications*, New York, Raven Press, 1976, pp. 33-50.

Hart, B. L. & Hoebel, B. G. "Stereotaxic surgery". In B. L.Hart (Ed.), *Experimental Psychobiology*, San Francisco: W. H. Freeman & Co., 1976, pp. 26-36.

Hart, B. L. & Hoebel, B. G. "Hypothalamic self-stimulation and feeding behavior". In B. L. Hart (Ed.), *Experimental Psychobiology*, San Francisco: W. H. Freeman & Co., 1976, pp. 74-79.

Hoebel, B. G. "Brain-stimulation reward and aversion in relation to behavior". In A. Wauquier & E. T. Rolls (Eds.), *Brain-Stimulation Reward*, Amsterdam: North Holland Publ., 1976, pp. 335-372.

Hoebel, B. G. "Hyperphagia: A neurochemical analysis". In F. P. Brooks & P. W. Evers (Eds.), *Nerves and the Gut*, Thorofare, NJ.: Charles Black Publ., 1977, pp. 440-458.

Hoebel, B. G. "The psychopharmacology of feeding." In L. L. Iversen, S. D. Iversen & S. H. Snyder (Eds.), *Handbook of Psychopharmacology*, Vol. 8., New York: Plenum Press, 1977, pp. 55-128.

Hoebel, B. G. Pharmacologic control of feeding. *Annual Review of Pharmacology and Toxicology*, 1977, 17, 605-621.

Hernandez, L. & Hoebel, B. G. Hypothalamic reward and aversion: A link between metabolism and behavior. In W. L. Veale & K. Lederis (Eds.), *Current Studies of Hypothalamic Function*, Vol. 2, Metabolism and Behaviour, Basel: Karger, 1978, pp. 72-92.

Hoebel, B. G. & Hernandez, L. *Feeding and weight regulation: Basic mechanisms*. Psychiatric Clinics of North America, 1978, 1, 473-492.

Also published as: Hernandez, L. & Hoebel, B. G. Basic mechanisms of feeding and weight regulation. In A. J. Stunkard (Ed.), *Obesity*, Philadelphia: W. B. Saunders Co., 1980, pp. 25-47.

Hoebel, B. G. Feeding. In C. Cottman & J. McGaugh (Eds.), *Behavioral Neuroscience*. New York: Academic Press, 1980, pp. 576-608.

Hoebel, B. G. & Leibowitz, S. F. Brain monoamines in the regulation of self-stimulation, feeding and body weight. In H. Weiner, M. A. Hofer & A. J. Stunkard (Eds.), *Brain, Behavior & Bodily Disease, Association for Research in Nervous and Mental Disease*, New York: Raven Press, 1981.

Hoebel, B. G. The neural and chemical basis of reward: New discoveries and theories in brain control of feeding, mating, aggression, self-stimulation and self-injection. *Journal of Social and Biological Structures*, 1982, 5, 397-408.

Also published in: *Der Beitrag der Biologie zu Fragen von recht und Ethik*. M. Gruter & M. Rehbinder (Eds.), Duncker & Humblot: Berlin, 1983, pp. 87-109.

Hoebel, B. G. Neurotransmitters in the control of feeding and its rewards: Monoamines, opiates and brain-gut peptides. In A. J. Stunkard & E. Stellar (Eds.), *Eating and Its Disorders, Association for Research in Nervous and Mental Disease*, New York: Raven Press, 1984, pp. 15-38.

Hoebel, B. G. Brain neurotransmitters in food and drug reward. *American Journal of Clinical Nutrition*, 1985, 42, 1133-1150.

Hoebel, B. G. Neuroscience and motivation: Pathways and peptides that define motivation. In R. C. Atkinson, R. J. Herrnstein, G. Lindzey & R. D. Luce (Eds.), *Stevens' Handbook of Experimental Psychology*, 2nd Edition, Volume 1: Perception and Motivation, New York: John Wiley & Sons, 1988, pp. 547-625.

Hoebel, B. G., Hernandez, L., McClelland, R. C. & Schwartz, D. H. Dexfenfluramine and feeding reward. *Clinical Neuropharmacology*, 1988, 11, Suppl. 1, S72-S85.

Schwartz, D. H., Dorfman, D. B., Hernandez, L. & Hoebel, B. G. Cholecystokinin: 1. CCK antagonists in the PVN induce feeding, 2. Effects of CCK in the nucleus accumbens

on extracellular dopamine turnover. In R. Y. Wang & R. Schoenfeld (Eds.), *Neurology and Neurobiology*, Volume 47, Cholecystokinin Antagonists, New York: Alan R. Liss, 1988, 285-305.

Guzman, N., Hernandez, L. & Hoebel, B. G. Capillary electrophoresis: A new era in microseparations. *Biopharm*, January 1989, 22-37.

Hoebel, B. G., Hernandez, L., Schwartz, D. H., Mark, G. P. & Hunter, G. A. Microdialysis studies of brain norepinephrine, serotonin and dopamine release during ingestive behavior: Theoretical and clinical implications. In L. H. Schneider, S. J. Cooper & K. A. Halmi (Eds.), *The Psychobiology of Human Eating Disorders: Preclinical and Clinical Perspectives*, *Annals of the New York Academy of Sciences*, 1989, 575, 171-193.

Hoebel, B. G., Hernandez, L., Mark, G. P., Schwartz, D. H., Pothos, E., Steckel, J. M. & Stone, E. A. Brain microdialysis as a molecular approach to obesity: Serotonin, dopamine, cyclic-amp. In G. Bray, D. Ricquier & B. Spiegelman (Eds.), *Obesity: Towards a Molecular Approach*, New York: Alan R. Liss, 1990, 45-61.

Hernandez, L., Hoebel, B. G. & Guzman, N. A. Analysis of cyclic nucleotides by capillary electrophoresis using ultraviolet detection. In C. Horváth & J. G. Nikelly (Eds.), *Analytical Biotechnology: Capillary Electrophoresis and Chromatography*, ACS Symposium Series 434. American Chemical Society: Washington, D. C., 1990, pp. 50-59.

Hoebel, B. G., Mark, G. P. & Hernandez, L. Network hierarchy in brain control of feeding behavior. Proceedings of the Fifth IEEE International Symposium on Intelligent Control, 1990, 67-70.

Hernandez, L., Parada, M., Baptista, T., Schwartz, D., West, H. L., Mark, G. P. & Hoebel, B. G. Hypothalamic serotonin in treatments for feeding disorders and depression as studied by brain microdialysis. *The Journal of Clinical Psychiatry*, 1991, 1 (Supplement), 1991, 52, 32-40.

Mark, G. P., Schwartz, D. H., Hernandez, L., West, H. L., & Hoebel, B. G. Application of microdialysis to the study of motivation and conditioning: Measurements of dopamine and serotonin in freely-behaving rat. In T. E. Robinson & J. B. Justice (Eds.), *Microdialysis in the Neurosciences*, Amsterdam: Elsevier, 1991, 359-385.

Hernandez, L., Murzi, E., Schwartz, D. H. & Hoebel, B. G. Electrophysiological and neurochemical approach to a hierarchical feeding organization. In P. Bjorntorp & B. Brodoff (Eds.), *Obesity*. Philadelphia: B. Lippincott Co., 1992, 171-183.

Hoebel, B. G., Hernandez, L., Mark, G. P. & Pothos, E. Microdialysis in the study of psychostimulants and the neural substrate of reinforcement: Focus on dopamine and serotonin. In J. Frascella & R. M. Brown, (Eds.) *Neurobiological Approaches to Brain-Behavior Interaction*, National Institute on Drug Abuse, 1992, 124, 1-34.

Hoebel, B. G., Hernandez, L., Mark, G. P. & Rada, P. Microdialysis in the study of ingestive behavior. In: Nicolaidis, S. Orosco, M. & Scatton, B. (organizer), *Microdialysis in Brain and Other Tissues*, Atelier de Formation 42, INSERM, 78110 Le Vesinet, France, 1992.

Hoebel, B. G., Leibowitz, S. L. & Hernandez, L. Neurochemistry of anorexia and bulimia. In H. Anderson (Ed.), *The Biology of Feast and Famine: Relevance to Eating Disorders*, New York: Academic Press, 1992, 21-45.

Sulzer, D., Pothos, E., Sung, H. M., Maidment, N. T., Hoebel, B. G. & Rayport, S. Weak base model of amphetamine action. In P. W. Kalivas & H. Samson (Eds.), *The Neurobiology of Drug and Alcohol Addiction*. Annals of the New York Academy of Science, 1992, 654, 525-528.

Hoebel, B. G. & Hernandez, L. Basic Neural Mechanisms of Feeding and Weight Regulation. In A. J. Stunkard & T. A. Wadden (Eds.) *Obesity: Theory and Therapy*, Second Edition, New York: Raven Press, 1993, 43-62.

Hoebel, B. G., Rada, P., Mark, G. P. & Hernandez, L. The power of integrative peptides to reinforce behavior by releasing dopamine. In F. L. Strand, B. E. Beckwith, B. Chronwall & C. A. Sandman (Eds.) *Models of Neuropeptide Action*, Annals of the New York Academy of Sciences, 1995, 739, 36-41.

Hoebel, B. G., Rada, P. V., Mark, G. P., Parada, M., Puig de Parada, M., Pothos, E. & Hernandez, L. Hypothalamic control of accumbens dopamine: A system for feeding reinforcement. In G. A. Bray & D. Ryan (Eds.) *Molecular and Genetic Aspects of Obesity*: Baton Rouge: LSU Press, Pennington Center Nutrition Series Vol. 5, 1996, 263-280.

Hoebel, B. G., Rada, P. V., Mark, G., Parada, M., & Puig De Parada, M. P. Hypothalamic control of the mesolimbic reward system: PVN galanin and LH dopamine. *Progress in Obesity Research*, 7, 1996, 24, 393-403.

Wellman, P.J. & Hoebel, B.G. (Eds.) *Ingestive Behavior Protocols*, Society for the Study of Ingestive Behavior: New York, NY, (1997).

Leibowitz, S. F. & Hoebel, B. Behavioral neuroscience and obesity. In G. A. Bray, C. Bouchard & P. T. James (Eds.) *The Handbook of Obesity*, Marcel Dekker, 1998, Chap. 15, 313-359.

Hoebel, B. G. & Wellman, P. J. Overview of methodological approaches to the study of ingestive behavior. In J. Crawley, C. Gerfen, R. McKay, M. Rogawski, D. Sibley, & P. Skolnick (Eds.) *Current Protocols in Neuroscience*, 1998, 1, 8.6a.1- 8.6a.13.

Hoebel, B. G., Rada, P. V., Mark, G. P., & Pothos, E. Neural systems for reinforcement and inhibition of behavior: Relevance to eating, addiction and depression. In D.

Kahneman, E. Diener & N. Schwarz (Eds.) *Well-being: Foundations of Hedonic Psychology*, New York: Russell Sage Foundation, 1999, 560-574.

Chau, D., Rada, P. V., Kosloff, R., and Hoebel, B. G. Cholinergic, M1, receptors in the nucleus accumbens mediate behavioral depression: A possible down-stream target for fluoxetine. In J. F. McGinty (Ed.), *Advancing form the Ventral Striatum to the Extended Amygdala: Implications for Neuropsychiatry and Drug Abuse. Annuals of New York Academy of Sciences*, 1999, 877, 769-774.

Research Articles

Hoebel, B. G. & Teitelbaum, P. Hypothalamic control of feeding and self-stimulation. *Science*, 1962, 135, 375-377.

Also published in: Reprint Series in the Social Sciences, No. P-508. Bobbs-Merrill. Readings in Physiological Psychology, T. K. Landauer (Ed.), McGraw-Hill: New York, 1967. MSS Publishing Co., Reprint Series, 1968.

Hoebel, B. G. Electrode-cannulas for electrical or chemical treatment of multiple brain sites. *Electroencephalography and Clinical Neurophysiology*, 1964, 16, 399-402.

Hoebel, B. G. Hypothalamic lesions by electrocauterization: disinhibition of feeding and self-stimulation. *Science*, 1965, 149, 452-453.

Caggiula, A. R. & Hoebel, B. G. "Copulation-reward" site in the posterior hypothalamus. *Science*, 1966, 153, 1284-1285. Also published in: Selected Academic Readings, R. R. Quiggle (Ed.), Simon & Schuster: New York, 1970.

Hoebel, B. G. & Teitelbaum, P. Weight regulation in normal and hypothalamic hyperphagic rats. *Journal of Comparative and Physiological Psychology*, 1966, 61, 189-193.

Hoebel, B. G. Intragastric balloon without gastric surgery for the rat. *Journal of Applied Physiology*, 1967, 22, 189-190.

Balagura, S. & Hoebel, B. G. Self-stimulation of the hypothalamus modified by insulin and glucagon. *Physiology & Behavior*, 1967, 2, 337-340.

Mount, G. & Hoebel, B. G. Lateral hypothalamic reward decreased by intragastric feeding: self-determined "threshold" technique. *Psychonomic Science*, 1967, 9, 265-266.

Rosenquist, A. C. & Hoebel, B. G. Wheel-running elicited by electrical stimulation of the brain. *Physiology & Behavior*, 1968, 3, 563-566.

Hoebel, B. G. Inhibition and disinhibition of self-stimulation and feeding: hypothalamic control and postingestional factors. *Journal of Comparative and Physiological Psychology*, 1968, 66, 89-100.

King, M. B. & Hoebel, B. G. Killing elicited by brain stimulation in rats. *Communications in Behavioral Biology*, Part A, 1968, 2, 173-177.

Hoebel, B. G. & Thompson, R. D. Aversion to lateral hypothalamic stimulation caused by intragastric feeding or obesity. *Journal of Comparative and Physiological Psychology*, 1969, 68, 536-543.

Smith, D. E., King, M. B. & Hoebel, B. G. Lateral hypothalamic control of killing: Evidence for a cholinceptive mechanism. *Science*, 1970, 167, 900-901.
Also published in: *Contemporary Studies in Psychology*, F. J. McGuigan and P. J. Woods (Eds.). Appleton-Century-Crofts: New York, 1972.

Devor, M. G., Wise, R. A., Milgram, N. W. & Hoebel, B. G. Physiological control of hypothalamically elicited feeding and drinking. *Journal of Comparative and Physiological Psychology*, 1970, 73, 226-232.

Smith, D. E. & Hoebel, B. G. Wheel-running in rats: Possible involvement of a cholinceptive mechanism. *International Research Communication System*, (73-10), 7-10-13, 1973.

Ahlskog, J. E. & Hoebel, B. G. Overeating and obesity from damage to a noradrenergic system in the brain. *Science*, 1973, 182, 166-169.

Ahlskog, J. E., Randall, P. K. & Hoebel, B. G. Hypothalamic hyperphagia: Dissociation from hyperphagia following destruction of noradrenergic neurons. *Science*, 1975, 190, 399-401.

Hoebel, B. G., Cooper, J., Kamin, M. & Willard, D. Appetite suppression by phenylpropanolamine in humans. *Obesity and Bariatric Medicine*, 1975, 4, 192-197.

Hoebel, B. G., Krauss, I. K., Cooper, J. & Willard, D. Body weight decreased in humans by phenylpropanolamine taken before meals. *Obesity & Bariatric Medicine*, 1975, 4, 200-206.

Hoebel, B. G., Hernandez, L. & Thompson, R. D. Phenylpropanolamine inhibits feeding, but not drinking, induced by hypothalamic stimulation. *Journal of Comparative and Physiological Psychology*, 1975, 89, 1046-1052.

Breisch, S. T., Zemlan, F. & Hoebel, B. G. Hyperphagia and obesity following serotonin depletion by intraventricular p-chlorophenylalanine. *Science*, 1976, 192, 382-385.

Kornblith, C. & Hoebel, B. G. A dose-response study of anorectic drug effects on food intake, self-stimulation, and stimulation-escape. *Pharmacology Biochemistry and Behavior*, 1976, 5, 215-218.

Zemlan, F. P., Trulson, M. E., Howell, R. & Hoebel, B. G. Influence of p-chloroamphetamine on female sexual reflexes and brain monoamine levels. *Brain Research*, 1977, 123, 347-356.

Hoebel, B. G., Zemlan, F. P., Trulson, M. E., MacKenzie, R. G., DuCret, R. P. & Norelli, C. Differential effects of p-chlorophenylalanine and 5,7-dihydroxytryptamine on feeding in rats. In J. H. Jacobs & L. D. Lytle (Eds.), *Serotonin Neurotoxins, Annals of the New York Academy of Sciences*, 1978, 590-594.

Hoebel, B. G. Three anorectic drugs: Similar structures but different effects on brain and behavior. *International Journal of Obesity*, 1978, 2, 157-162.

Also published in: *Obesity, Kroc Foundation Symposium on Comparative Methods of Weight Control*, G. A. Bray (Ed.), 1979, John Libbey & Co.: London, pp. 59-68.

Resnick, S. I., Hernandez, L., Chen, J. & Hoebel, B. G. Effect of the anorectic drug, phenylpropanolamine, on blood glucose in rats. *Pharmacology*, 1978, 17, 157-162.

Hoebel, B. G. Hypothalamic self-stimulation and stimulation-escape in relation to feeding and mating. *Federation Proceedings*, 1979, 38, 2454-2461.

MacKenzie, R. G., Hoebel, B. G., DuCret, R. P. & Trulson, M. E. Hyperphagia following intraventricular p-chlorophenylalanine-, leucine- or tryptophan-methyl esters: Lack of correlation with whole brain serotonin levels. *Pharmacology Biochemistry & Behavior*, 1979, 10, 951-955.

Hoebel, B. G., Hernandez, L., Monaco, A. P. & Miller, W. C. Amphetamine-induced overeating and overweight in rats. *Life Sciences*, 1981, 28, 77-82.

Monaco, A. P., Hernandez, L. & Hoebel, B. G. Nucleus accumbens: Site of amphetamine self-injection, comparison with lateral ventricle. In R. B. Chronister & J. DeFrance (Eds.), *The Neurobiology of the Nucleus Accumbens*. Haer Institute: Brunswick, ME, 1981, pp. 338-342.

Hoebel, B. G., Hernandez, L., McLean, S., Stanley, B. G., Aulisi, E., F., Glimcher, P. & Margolin, D. Catecholamines, enkephalin and neurotensin in feeding and reward. In B. G. Hoebel & D. Novin (Eds.), *The Neural Basis of Feeding and Reward*. Haer Institute: Brunswick, ME, 1982, pp. 465-478.

Hernandez, L. & Hoebel, B. G. Overeating after midbrain 6-hydroxydopamine: Prevention by central injection of selective reuptake blockers. *Brain Research*, 1982, 245, 333-343.

McLean, S. & Hoebel, B. G. Opiate and norepinephrine-induced feeding from the paraventricular nucleus of the hypothalamus are dissociable. *Life Sciences*, 1982, 31, 2379-2382.

Hoebel, B. G., Monaco, A. P., Hernandez, L., Aulisi, E. F., Stanley, B. G. & Lenard, L. Self-injection of amphetamine directly into the brain. *Psychopharmacology*, 1983, 81, 158-163.

Glimcher, P., Margolin, D. & Hoebel, B. G. Rewarding effects of neurotensin in the brain. In C. B. Nemeroff & A. J. Prange, Jr. (Eds.), *Neurotensin, A Brain and Gastrointestinal Peptide*, *Annals of the New York Academy of Sciences*, 1983, 400, 422-424.

Stanley, B. G., Eppel, N. & Hoebel, B. G. Neurotensin injected in the paraventricular hypothalamus suppresses feeding in rats. In C. B. Nemeroff, A. J. Prange, Jr. (Eds.), *Neurotensin, A Brain and Gastrointestinal Peptide*, *Annals of the New York Academy of Sciences*, 1983, 400, 425-427.

McLean, S. & Hoebel, B. G. Feeding induced by opiates injected into the paraventricular hypothalamus. *Peptides*, 1983, 4, 287-292.

Stanley, B. G., Hoebel, B. G. & Leibowitz, S. F. Neurotensin: Effects of hypothalamic and intravenous injections on eating and drinking in rats. *Peptides*, 1983, 4, 493-500.

Hernandez, L., Parada, M. & Hoebel, B. G. Amphetamine-induced hyperphagia and obesity caused by intraventricular or lateral hypothalamic injections in rats. *Journal of Pharmacology and Experimental Therapeutics*, 1983, 227, 524-530.

Ahlskog, J. E., Randall, P. K., Hernandez, L. & Hoebel, B. G. Diminished amphetamine anorexia and enhanced fenfluramine anorexia after midbrain 6-hydroxydopamine. *Psychopharmacology*, 1984, 82, 118-121.

Glimcher, P. G., Margolin, D. H., Giovino, A. A. & Hoebel, B. G. Neurotensin: A new "reward peptide". *Brain Research*, 1984, 291, 119-124.

Glimcher, P. G., Giovino, A. A., Margolin, D. H. & Hoebel, B. G. Endogenous opiate reward induced by an enkephalinase inhibitor, thiorphan, injected into the ventral midbrain. *Behavioral Neuroscience*, 1984, 98, 262-268.

Stanley, B. G., Leibowitz, S. F., Eppel, N., St-Pierre, S. & Hoebel, B. G. Suppression of norepinephrine-elicited feeding by neurotensin: Evidence for behavioral anatomical and pharmacological specificity. *Brain Research*, 1985, 343, 297-304.

Hoebel, B. G. Integrative peptides. *Brain Research Bulletin*, 1985, 14, 525-528.

Hernandez, L., Stanley, B. G. & Hoebel, B. G. A small, removable microdialysis probe. *Life Sciences*, 1986, 39, 2629-2637.

Murzi, E., Hernandez, L. & Hoebel, B. G. Lateral hypothalamic sites eliciting eating affect medullary taste neurons in rats. *Physiology & Behavior*, 1986, 36, 829-834.

Glimcher, P. G., Giovino, A. A. & Hoebel, B. G. Neurotensin self-injection in the ventral tegmental area. *Brain Research*, 1987, 403, 147-150.

Hernandez, L., Lee, F. & Hoebel, B. G. Simultaneous microdialysis and amphetamine infusion in the nucleus accumbens and striatum of freely moving rats: Increase in extracellular dopamine and serotonin. *Brain Research Bulletin*, 1987, 19, 623-628.

Hernandez, L. & Hoebel, B. G. Food reward and cocaine increase extracellular dopamine in the nucleus accumbens as measured by microdialysis. *Life Sciences*, 1988, 42, 1705-1712.

Hernandez, L., Auerbach, S. & Hoebel, B. G. Phencyclidine (PCP) injected in the nucleus accumbens increases extracellular dopamine and serotonin as measured by microdialysis. *Life Sciences*, 1988, 42, 1713-1723.

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Major Invitations

Psi Chi Address, Eastern Psychological Association, 1963

New York Academy of Sciences, Address and Chapter, 1969, 1978, 1983

Annual Review of Physiology, Chapter, 1971

The Human Energy Crisis, Symposium on Obesity, Ciba-Geigy, Houston, Texas, Address, 1973

Nebraska Symposium on Motivation, Address and Chapter, 1974

American Psychological Association Fellows Address, 1974

Conference on Hunger: Basic Mechanisms and Clinical Implications, Los Angeles, California, Address and Chapter, 1975

International Conference on the Regulation of Food and Fluid Intake, Address, Tokyo, 1965

Conference on Brain Stimulation Reward, Address and Chapter, Beerse, Belgium, 1976

Handbook of Psychopharmacology, Chapter, 1977

Annual Review of Pharmacology and Toxicology, Chapter, 1977

Symposium on Nerves and the Gut, Bryn Mawr, Pennsylvania, Address and Chapter, 1977

Kroc Foundation Conference, Hypothalamic-Pancreatic Interactions, Santa Ines, California, 1977; Conference on Obesity, Address and Chapter, 1979

Current Studies of Hypothalamic Function, Chapter, 1978

Symphagium Benjamin Franklin, La Napoule, France, Address, 1979, 1989

Symposium on The Neurobiology of the Nucleus Accumbens, Brunswick, Maine, Address and Chapter, 1980

Association for Research on Nervous and Mental Disease, Symposium on Brain, Behavior and Bodily Disease, Address and Chapter, 1981

Symposium on Law and Behavioral Research, Monterey Dunes, California, Address and Chapter, 1981

Society for Neuroscience Symposium on the Neurobiology of Feeding, Address, 1982

Society for Neuroscience Satellite Conference on the Neural Basis of Feeding and Reward (Organizer), Address and Chapter, Los Angeles, California, 1982

Association for Research on Nervous and Mental Disease, Symposium on Eating and Its Disorders, Address and Chapter, 1981 and 1984

Campbell Soup Company Symposium on Food, Nutrition and Health, Address and Chapter, Princeton, Address and Chapter, 1983

Collegium Internationale Neuro-psychopharmacologium, Symposium on Nutrition and the Central Nervous System, Florence, Italy, Address, 1984

The Neural and Metabolic Bases of Feeding, Napa Valley, California, Address and Chapter, 1984

Sir Mortimer Davis-Jewish Hospital, Clinical Day Symposium on Obesity, Montreal, Address, 1984

Society for Neuroscience Symposium on Functions of Cholecystokinin in the Brain, Dallas, Texas, Address, 1985

American Pain Society, Dallas, Texas, Address, 1985

Scripps Clinic and Research Foundation, Symposium on Eating Disorders: New Directions in Diagnosis and Treatment, La Jolla, California, Address, 1985

Collegium International Neuropsychopharmacologium, Symposium on Brain and Nutrition, San Juan, Address and Chapter, 1986

Eastern Psychological Association, Symposium on Opioids in Feeding (Organizer), New York, 1986

Eli Lilly Conference on Obesity, Indianapolis, Address, 1987

Eastern Psychological Association, Arlington, Virginia, Address, 1987
Federation of American Societies for Experimental Biology (FASEB), Summer Research Conference on Energy Regulation, Saxtons River, Vermont, Address, 1987
Workshop on Cholecystokinin Antagonists, Cold Spring Harbor, Address and Chapter, 1987
Society for Neuroscience, Satellite Symposium on Microdialysis and Behavior (Organizer), Address, New Orleans, 1987
European Winter Conference on Brain Research, Symposium on Microdialysis (Organizer), Tignes, France, 1988
Stevens' Handbook of Experimental Psychology, Chapter, 1988
Winter Conference on Brain Research, Workshop on In Vivo Microdialysis and Voltammetry for Measuring Brain Neurotransmitters (Organizer), Steamboat Springs, Colorado, 1988.
Eli Lilly Symposium on Hypertension and Obesity, Address, Indianapolis, 1988.
Society for Stimulus Properties of Drugs, Satellite Symposium of the Society for Neuroscience, Toronto, Canada, Speech, 1988.
North American Association for the Study of Obesity, Banff, Canada, Speech, 1988
Society for the Study of Ingestive Behavior, Satellite Symposium of the Society for Neuroscience, Speech, Toronto, Canada, 1988
Wyeth/Ayerst Pharmaceutical Corp., Seminar, Monmouth Junction, New Jersey, 1988
New York Academy of Sciences, Conference on the Psychobiology of Human Eating Disorders, Speech and Chapter, New York, New York, 1989
Delaware Society for Neuroscience, Address, Wilmington, Delaware, 1989
Princeton/Cyanamid Conference, Presentation, Princeton, New Jersey, 1989
International Conference on Regulation of Food and Fluid Intake, Plenary Lecture, Paris, France, 1989
American Psychological Association, Address, New Orleans, Louisiana, 1989
National Institute on Drug Abuse, Technical Review Session, Presentation, Bethesda, Maryland, 1989
Environmental Scientific Apparatus Corporation, Satellite Symposium at the Society for Neuroscience, Address, Phoenix, Arizona, 1989
UCLA Symposium on Molecular and Cellular Biology, Obesity: Towards a Molecular Approach, Address and Chapter, Keystone, Colorado, 1989
Campbell Soup Company, Conference on Salt Appetite, Presentation, Camden, New Jersey, 1989, 1990
Society for Neuroscience, Satellite Conference on In Vivo Neurochemistry and Addiction (Organizer), Phoenix, 1989
Pittsburgh Conference, Symposium on Applications of Microdialysis in Biological Systems (Organizer), New York, 1990
European Behavioural Pharmacology Society, Symposium on Microdialysis and Behavior (Organizer), Amsterdam, 1990
Addictive States Minisymposium, Address, Uniformed Services University, Bethesda, Maryland, 1990
13th Symposium on Quantitative Analysis Behavior, The Nature of Reinforcement, Presentation, Cambridge, Massachusetts, 1990
University of, Colloquium, Groningen, The Netherlands, 1990

American Psychological Association, Division 3, Address, Boston, Massachusetts, 1990
IEEE Symposium on Intelligent Control, Address and Chapter, Philadelphia, Pennsylvania, 1990
Bristol-Myers/Squibb Conference on The Biology of Feast and Famine: Relevance to Feeding disorders, Address and Chapter, Toronto, Canada, 1990
European Behavioral Pharmacology Society, Address, Amsterdam, The Netherlands, 1990
The Biology of Feast and Famine: Relevance to Eating Disorders, Address, Toronto, Canada, 1990
International Conference on Obesity: Satellite on Neural and Metabolic Control of Food and Water Intake, Address and Chapter. Kobe, Japan, 1990
Eastern Psychological Association, Symposium on Brain Neurotransmitters Controlling Eating Patterns and Food Reward,. Invited Participant, New York, New York, 1991
North American Society for the Study of Obesity, Address, Sacramento, California, 1991
Honorary Degree Lecture, Louvain La Neuve, Belgium, 1991
Monitoring Molecules, Address, Amsterdam, The Netherlands, 1991
International Study Group Investigating Drugs as Reinforcers, Address, Palm Beach, Florida, 1991
University of Minnesota, Medical School Neurobehavioral Pharmacology Training Grant, Address, Minneapolis, Minnesota, 1991
European Winter Conference on Brain Research, Invited Symposium, La Plagne, France, 1992.
SUNY-Buffalo, Invited colloquium, Buffalo, New York, 1992.
"Science on Saturdays" Lecture Series, Invited Lecturer to high school students and teachers, Princeton University Plasma Physics Laboratory, Princeton, New Jersey, 1992.
Colloquium Internationale Neuropsychopharmacology, Invited Symposium, Nice, France, 1992.
New York University Hospital, Invited Colloquium, New York, 1992.
International Conference on Physiology of Food and Fluid Intake, Invited Address, Oxford England, 1993.
University of Washington, Department of Psychology, Invited Colloquium, Seattle, Washington, 1993.
1st International Congress on Hormones, Brain and Neuropsychopharmacology, Invited Symposium, Rhodes, Greece, 1993.
Workshop on Functional Organization of the CNS: Neural Circuitry and Systems, Invited Participant, National Institute of Mental Health, Rockville, Maryland, 1993.
American Psychological Association; Division 6: Physiological and Comparative Psychology, Invited Address, Los Angeles, California, 1994.
International Conference on Obesity, Invited Symposium, Toronto, Canada, 1994.
International Conference on Obesity, Satellite Conference on Pharmacologic Control of Obesity, Invited Address, Montreal, Canada, 1994.
Eastern Psychological Association, Recent Advances in Ingestive Behavior Research, Invited Symposium, Providence, Rhode Island, 1994.
Pharmacologic Treatment of Obesity. Satellite Symposium to the 7th International Congress on Obesity, Invited Speaker, Quebec, Canada, 1994.
Pennington Biomedical Research, Molecular and Genetic Aspects of Obesity, Invited

Address, Baton Rouge, Louisiana, 1994.
Eastern Psychological Association, The Neural Basis of Gluttony, Love and Pleasure, Invited Symposium, Providence, Rhode Island, 1994.
American Psychological Association, Division. 6 Presidential Address, New York, New York, 1995.
NASSO-SSIB Joint Conference, Invited Address, Baton Rouge, Louisiana, 1995.
VI Symphagium Benjamin Franklin-Lafayette. Invited Participant, La Napoule, France, 1996.
International Behavioral Neuroscience Society. Invited Keynote Address, Cancun Mexico, 1996
Society for the Study of Ingestive Behavior. Presidential Address, Banff, Canada, 1966.
Conference on Understanding Quality of Life: Scientific Perspectives on Enjoyment and Suffering, Invited Participant, Princeton, New Jersey, 1996
American Psychological Society, Invited Speaker on: "Addiction to Sugar: Behavioral and Neurochemical Evidence," Toronto, Canada, June, 2001
Neuroscience Seminar Speaker: Evidence for Opposite Role of Dopamine and Acetylcholine in Nucleus Accumbens Control of Behavior: Relevance to Obesity and Drug Abuse". Princeton University, September, 2001.
North American Association for the Study of Obesity, Annual Meeting. Oral Presentation: "Acetylcholine in the Accumbens is Involved in Behavioral Depression and Sugar Withdrawal." Quebec City, PA, Canada, October, 2001.

Extracurricular Activities

Brain Research Instruments Co., Sole proprietor, 1962-present
(Research consulting and apparatus)

4-H, Somerset County, Club Leader, 1978

Cub Scout, Mercer County, Den Leader, 1980

Great Eastern Balloon Association, Hot air balloon pilot, 1976-current
(FAA Commercial License)
Hot air balloon builder
(FAA approved as experimental, lighter-than-air aircraft)

Steam Calliope, Builder and operator, 1990-current
(New Jersey Boiler Operator's License)

Little Valley Farm Tree, Rocky Hill, NJ, Owner and tree farmer, 1976-present
(3000 evergreens. Public access preserved in cooperation with the D&R Greenway, Greenacres, Franklin Township and Somerset County)

The Rockingham Association, Board of Trustees, 1999-present
(Preservation and reconstruction of the house and farm where George and Martha

Washington

lived during the Continental Congress in Princeton, a NJ State Historic Site)

Delaware River Steamboat Floating Classroom, Inc., President and Founder, 1999-present

(Non-profit organization with replica of 1890, sternwheel, 42 passenger, shallow-river workboat.

Lesson plans will be available for clean-water ecology and U.S. history. Intended for elementary

and high school field trips, and senior-citizen bus tours. U.S. Coast Guard approved plans 2001.)