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Education

- 1978 to 1980 Ph.D., Physiological Psychology May, 1981.
Department of Psychology, Bryn Mawr College, Bryn Mawr, PA
Thesis title: 'Midbrain Reticular Formation Involvement in the inhibition of the Rat's Acoustic Startle Response.'
- 1976 to 1978 M.A., Physiological Psychology May, 1978.
Department of Psychology, Bryn Mawr College, Bryn Mawr, PA
Thesis title: 'The Neural Substrate of the Startle Response.'
- 1972 to 1976 B.A., Psychology May, 1976.
State University of New York at Stony Brook
Thesis title: 'Optic Nerve Regeneration in Goldfish Under Light Deprivation.'

Career Highlights

- 2004 to present Chair, Department of Psychology
Saint Joseph's University
Philadelphia, Pennsylvania
- 2000 to present Professor of Psychology
Saint Joseph's University
Philadelphia, Pennsylvania
- 1994 to 1995 Acting Chair, Department of Psychology
Saint Joseph's University
- 1991 to 2000 Associate Professor of Psychology
Saint Joseph's University
Philadelphia, Pennsylvania
Tenure awarded in August, 1991
- 1985 to 1991 Assistant Professor of Psychology
Saint Joseph's University
Philadelphia, Pennsylvania
- 1984 to 1985 Associate Research Scientist in Psychiatry
Department of Psychiatry, Columbia University
New York City, New York

Career

Highlights

(continued)

- 1983 to
1985 Research Scientist, Level II
New York State Psychiatric Institute
New York City, New York
- 1983 to
1985 Adjunct Assistant Professor of Psychology
Department of Psychology, Queens College
New York City, New York
- 1981 to
1983 Postdoctoral Fellow
Department of Psychiatry, Columbia University
New York City, New York
Fellowship funded by the National Institute of Mental Health and the New York State Health Research Council
- 1980 to
1981 Visiting Assistant Professor of Psychology
Department of Psychology, Washington College
Chestertown, Maryland

Teaching

Interests

Sensation and Perception
Behavioral Neuroscience
Psychology of Consciousness
Psychopharmacology
Statistics for the Social Sciences

Professional

Affiliations

Eastern Psychological Association
American Psychological Society
Society for Neuroscience
Sigma Xi

Awards and

Honors

- 1990 Faculty Merit Award for Scholarship, Saint Joseph's University

Invited Addresses

- 1982 The Startle Reflex: Neuroanatomy and Neurophysiology. Dept. of Environmental Health Sciences, School of Hygiene and Public Health, The Johns Hopkins University, Baltimore, MD
- 1982 Startle Modification: Practical Applications. Dept. of Psychology, Columbia University, New York City, NY
- 1985 Alterations in Other Sensory Modalities Accompanying Stress-Induced Analgesia. New York Academy of Sciences, New York City, NY
- 1986 to 1989 Physiological Psychology: An Overview. Licensing Workshop of the Human Services Center of the Philadelphia Society of Clinical Psychologists, Fort Washington, PA
- 1986 Pain: Assessment and Modulation. Dept. of Psychology, Bryn Mawr College, Bryn Mawr, PA
- 1988 Effects of In-Utero Cocaine Exposure on Sensorineural Reactivity. Conference on Prenatal Abuse of Licit and Illicit Drugs, New York Academy of Sciences, Bethesda, MD
- 1988 Physiological Mechanisms of Hunger and Satiety. The Food Nutrition and Health Research Institute seminar on Nutrition and Health Strategies, Saint Joseph's University, Philadelphia, PA
- 1994 The Startle Reflex: Research and Clinical Implications. Department of Psychiatry, West Los Angeles VA Hospital, Los Angeles, CA

Grants

- 1981 National Institutes of Health Biomedical Research Support Grant. #903-E579P. Title: 'Establishment of a Startle Laboratory for Sensory Psychophysics and its Application to Stress-Induced Analgesia.' Principal investigator. One year, \$2,500.
- 1981 to 1986 National Institutes of Health Grant, #NS18822. Title: 'A Psychophysical Analysis of Stress-Induced Analgesia.' Co-Principal investigator. Five years, \$163,943.
- 1982 National Institutes of Health Biomedical Research Support Grant. #903-E597Q. Title: 'The Neural Bases of Reflex Inhibition: Stimulation and Lesion Studies.' Principal investigator. One Year, \$5,750.
- 1983 New York State Health Research Council Fellowship Grant. #14-040. Title: 'A New Technique for Assessing Analgesia in Rats.' Principal investigator. One year, \$14,040.

Grants

(continued)

- 1987 Saint Joseph's University Faculty Development Summer Research Grant. Title: 'Effects of Acceleration Stress on Auditory and Visual Perception.' Principal investigator. Three months, \$2,500.
- 1993 Saint Joseph's University Faculty Development Summer Research Grant. Title: 'Effects of Varying Peak-to-Valley Ratios on the Detectability of Gaps.' Principal investigator. Three months, \$2,500.

Abstracts

Leitner, D. S. and Kelly, D. D. (1982). Potentiation of cold swim stress analgesia by diazepam. *Society for Neuroscience Abstracts*, 8.

Kelly, D. D., Lemarie, P. A., and Leitner, D. S. (1982). Hyperalgesia and analgesia induced by the same stressor. *Society for Neuroscience Abstracts*, 8.

Leitner, D. S., Cohen, M. E., and Rosenberger, M. C. (1983). Role of the inferior colliculus in the inhibition of acoustic startle in the rat. *Society for Neuroscience Abstracts*, 9.

Leitner, D. S. and Kelly, D. D. (1984). Differential sensory and motor correlates of analgesia induced by cold-swim stress and by morphine. *Society for Neuroscience Abstracts*, 10.

Kelly, D. D. and Leitner, D. S. (1984). Opioid and nonopioid forms of footshock stress analgesia can be distinguished by startle responsivity. *Society for Neuroscience Abstracts*, 10.

Leitner, D. S. and Kelly, D. D. (1985). Inhibition of acoustic startle in the rat by a noxious prestimulus: Effects of morphine and naloxone. *Society for Neuroscience Abstracts*, 11.

Leitner, D. S. and Kelly, D. D. (1986). Stress-induced changes in several sensory systems as measured by inhibition of acoustic startle in rats. *Society for Neuroscience Abstracts*, 12.

Leitner, D. S. and Calloway, C. S. (1987). Differential effects of gap and pulse prestimuli upon acoustic startle. *Proceedings and Abstracts of the Annual Meeting of Eastern Psychological Association*, 58.

Leitner, D. S. and Cohen, M. E. (1988). Tectal modulation of acoustic startle in the rat. *Society for Neuroscience Abstracts*, 14.

Leitner, D. S., Hammond, G., Springer, C., Ingham, K., Mekilo, A., Bodison, P., Aranda, M., and Shawaryn, M. (1990). Parameters affecting gap detection in the rat. *Society for Neuroscience Abstracts*, 16.

Abstracts

(continued)

Leitner, D. S., Hammond, G., Springer, C., Ingham, K., Mekilo, A., Bodison, P., Aranda, M., and Shawaryn, M. (1993). Parameters affecting gap detection in the rat. *Proceedings and Abstracts of the Annual Meeting of Eastern Psychological Association*, 64.

Leitner, D. S. and Mitchell, E. (1993). Modulation of acoustic startle by auditory gap prestimuli is disrupted by cocaine administration. *Society for Neuroscience Abstracts*, 19.

Leitner, D. S., and Girten, E. M. (1995). Dopamine D₂ receptor agonists alter gap modulation of startle amplitude. *Society for Neuroscience Abstracts*, 21.

Leitner, D. S., Carmody, D. P., and Girten, E. M. (1996). A signal detection theory analysis of gap detection in the rat. *Proceedings and Abstracts of the Annual Meeting of Eastern Psychological Association*, 67.

Leitner, D. S., Girten, E. M., and Carmody, D. P. (1996). A signal detection theory analysis of the effects of quinpirole on acoustic startle in the rat. *Society for Neuroscience Abstracts*, 22.

Carmody, D. P., Leitner, D. S., and Girten, E. M. (1996). Signal detection analysis applied to gap detection in the rat. *Abstracts of the Psychonomic Society*, 1, 43.

Leitner, D. S., Girten, E. M., and Carmody, D. P. (1997). Decreases of prestimulus inhibition of the rat's acoustic startle reflex produced by apomorphine administration: A comparison of analyses. *Society for Neuroscience Abstracts*, 23.

Girten, E. M., Leitner, D. S., and Carmody, D. P. (1998). Olanzapine reverses decreases of prestimulus inhibition of the rat's acoustic startle reflex induced by apomorphine administration. *Society for Neuroscience Abstracts*, 24.

Schatz, P., Gibney, B., & Leitner, D. (2009). Validation of millisecond timing accuracy in microcomputers. *Archives of Clinical Neuropsychology*, 24, 538.

Schatz, P., Ybarra, V., Leitner, D. (2014). Analysis of millisecond timing accuracy on the iPad and Android. *Sports Neuropsychology Society Concussion Symposium*, 3.

Publications

Leitner, D. S., Powers, A. S., and Hoffman, H. S. (1979). The neural system for the inhibition of startle. *Bulletin of the Psychonomic Society*, 14, 410-412.

Leitner, D. S., Powers, A. S., and Hoffman, H. S. (1980). The neural substrate of the startle response. *Physiology and Behavior*, 25, 291-297.

Hoffman, H. S., Stitt, C. L., and Leitner, D. S. (1980). The optimum interpulse interval for inhibition of acoustic startle in the rat. *The Journal of the Acoustical Society of America*, 68, 1218-1220.

Publications
(continued)

Leitner, D. S., Powers, A. S., Stitt, C. L., and Hoffman, H. S. (1981). Midbrain reticular formation involvement in the inhibition of acoustic startle. *Physiology and Behavior*, 26, 259-268.

Leitner, D. S., Francis, A., and Gazzaniga, M. S. (1982). Optic nerve regeneration in goldfish under light deprivation. *Brain Research Bulletin*, 8, 105-107.

Leitner, D. S. and Rosenberger, M. C. (1983). A simple and inexpensive startle transducer with high output. *Behavior Research Methods and Instrumentation*, 15, 508-510.

Leitner, D. S. and Kelly, D. D. (1984). Potentiation of cold swim stress analgesia by diazepam. *Pharmacology, Biochemistry, and Behavior*, 21, 813-816.

Leitner, D. S. and Cohen, M. E. (1985). Role of the inferior colliculus in the inhibition of acoustic startle in the rat. *Physiology and Behavior*, 84, 65-70.

Leitner, D. S. (1986). Alterations in other sensory modalities accompanying stress analgesia as measured by startle reflex modification. *Annals of the New York Academy of Sciences*, 467, 82-92.

Leitner, D. S. (1988). Inhibition of acoustic startle in the rat by a footshock prestimulus: Effects of morphine and naloxone. *Behavioral Neuroscience*, 102, 526-533.

Leitner, D. S. (1989). Multisensory deficits produced by acute exposure to swim stress. *Behavioral Neuroscience*, 103, 151-157.

Anday, E. K., Cohen, M. E., Kelley, N. E., and Leitner, D. S. (1989). Effects of in-utero cocaine exposure on startle and its modification. *Developmental Pharmacology and Therapeutics*, 12, 137-145.

Cohen, M. E., Anday, E. K., and Leitner, D. S. (1989). Effects of in-utero cocaine exposure on sensorineural reactivity. *Annals of the New York Academy of Sciences*, 562, 344-346.

Hammond, G. and D. S. Leitner. (1990). Augmentation of the rat's acoustic startle reflex by leading and trailing non-reflexogenic stimuli. *Behavioral Neuroscience*, 104, 841-848.

Leitner, D. S., Hammond, G., Springer, C., Ingham, K., Mekilo, A., Bodison, P., Aranda, M., and Shawaryn, M. (1993). Parameters affecting gap detection in the rat. *Perception and Psychophysics*, 54, 395-405.

Leitner, D. S., Carmody, D. P., and Girtten, E. M. (1997). A signal detection theory analysis of gap detection in the rat. *Perception and Psychophysics*, 59, 774-782.

Leitner, D. S., and Girtten, E. M. (1997). Dopamine receptor agonists alter gap prestimulus modulation. *Psychopharmacology*, 134, 213-220.

Schatz, P., Ybarra, V., and Leitner, D. (2015). Validating the accuracy of reaction time assessment on computer-based tablet devices. *Assessment*, 22(4), 405-410.