

CURRICULUM VITAE

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Education

Tufts University, Boston, Mass., PhD 1969, MS 1967 Experimental Psychology
Univ. of Maryland, College Park, Maryland BA 1963 Psychology

Fellowships and Employment

- 1977- Professor and Chair, Institute of Physiological Psychology, University of Düsseldorf,
Universitätsstraße 1, 40225 Düsseldorf
- 1971 - 77 Institute of Pharmacology, University of Zürich, Zürich, Switzerland
- 1969 - 71 Institute of Physiology, Czechoslovak Academy of Sciences, Prague (with Dr.J. Bures).
National Academy of Sciences/ Czechoslovak Academy of Sciences exchange scientist
(1969-70); NIMH Fellowship (1970-71)
- 1967 - 69 National Defense Education Act Fellowship, Tufts University, Department of Psychology,
Medford, Massachusetts

Recent Awards and Positions

- 2003 Lifetime Achievement Award for Outstanding Scientific Contributions to the Field of
Behavioral Neuroscience, International Behavioral Neuroscience Society
- 2006- President of the International Behavioral Neuroscience Society

Editorial Activity

- BEHAVIORAL BRAIN RESEARCH, Elsevier/North Holland Publishing Co. (chief editor 1993 -).
- REVIEWS IN THE NEUROSCIENCES, Freund Publishing House, London (chief editor 1992 -).
- NEUROBIOLOGY OF LEARNING AND MEMORY, Elsevier (editorial board 2010 -)
- NEUROSCIENCE & BIOBEHAVIORAL REVIEWS, Elsevier Science (editorial board 2006 -).
- JOURNAL OF NEUROSCIENCE METHODS, Elsevier/North-Holland Publishing Co. (associate
editor and editorial board 1990 -).
- BRAIN RESEARCH PROTOCOLS, Elsevier/North-Holland Publishing Co. (editorial board 1997-).
- HANDBOOK OF BEHAVIORAL NEUROSCIENCES, (book series) Elsevier/Academic Press,
(chief editor 2006 -).
- PEPTIDES, Pergamon Elsevier, New York (editorial board 1995 -).
- NEUROPEPTIDES, Elsevier Science, Oxford (editorial board 2002-).
- INTERNATIONAL JOURNAL OF NEURAL SYSTEMS, World Scientific Publishing, (editorial board
2007-).
- THE OPEN NEUROENDOCRINOLOGY JOURNAL, Bentham, (editorial board 2008-)
- BIOLOGICAL PSYCHIATRY, Elsevier/North-Holland Publishing Co., (advisory board 1978-1988).
- PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR, Pergamon Press, (advisory board 1981-
1993).

BRAZILIAN JOURNAL OF MEDICAL AND BIOLOGICAL RESEARCH, Ribeirão Preto (editorial board 1997-2004).

NEURAL PLASTICITY, Freund Publishing House LTD, London (editorial board 1997-2006).

NEUROPSYCHOBIOLOGY, S. Karger, Basel (advisory board 1983-1994).

TECHNIQUES IN THE BEHAVIORAL AND NEURAL SCIENCES, (book series), Elsevier/North-Holland Publishing Co. (chief editor 1987-2006).

Scientific Advisory Boards

Drug Research Network of Baden-Württemberg; Primate Center, University of Brasilia, Brazil; Federation of the European Neuroscience Societies – Publication committee

Publications in peer reviewed journals

1. Karrenbauer, B.D., Müller, C.P., Ho, Y.J., Spanagel, R., Huston, J.P., Schwarting, R.K.W., Pawlak, C.R. Time-dependent in-vivo effects of interleukin-2 on neurotransmitters in various cortices: Relationships with depressive-related and anxiety-like behaviour. Journal of Neuroimmunology, 2011, in press.
2. Paes, F., Machado, S., Arias-Carrion, O., Velasques, B., Teixeira, S., Budde, H., Cagy, M., Piedade, P., Ribeiro, P., Huston, J.P., Sack, A.T., Nardi, A.E. The value of repetitive transcranial magnetic stimulation (rTMS) for the treatment of anxiety disorders: An integrative review. Drug Targets - CNS & Neurological Disorders, 2011, in press.
3. Paes, F., Machado, S., Velasques B., Teixeira, S., Budde, H., Cagy, M., Piedade, R., Huston, J.P., Arias-Carrion, O., Sack, A.T., Nardi, A.E. Therapeutic effects of repetitive transcranial magnetic stimulation on anxiety disorders: a critical overview. Drug Targets - CNS & Neurological Disorders, 2011, in press.
4. Nikolaus, S., Antke, C., Beu, M., Kley, K., Wirrwar, A., Huston, J.P., Müller, H.-W. Binding of [¹²³I]iodobenzamide to the rat D₂ receptor after challenge with various doses of methylphenidate - an in vivo imaging study with dedicated small animal SPECT. European Journal of Nuclear Medicine, 2011, 38:694-701.
5. Schäble, S., Topic, B., Buddenberg, T.E., Petri, D., Huston, J.P., de Souza Silva, M.A. Neurokinin-3-R agonism in aged rats has anxiolytic-, antidepressant-, and promnestic-like effects and stimulates ACh release in frontal cortex, amygdala and hippocampus. European Neuropsychopharmacology, 2011, 21(6): 484-494.
6. Cela-Conde, C.J., Agnati, L., Huston, J.P., Mora, F., Nadal, M. The cognitive and neural foundations of aesthetic appreciation. Progress in Neurobiology, 2011, 94:39-48.
7. Schäble, S., Huston, J.P., de Souza Silva, M.A. Neurokinin₂-R in medial septum regulate hippocampal and amygdalar ACh release induced by intra-septal application of neuropeptides A and B. Hippocampus, 2011, in press.
8. Dere, E., Zlomuzica, A., de Souza Silva, M.A., Ruocco, L.A., Sadile, A.G., Huston, J.P. Neuronal histamine and the interplay of memory, reinforcement and emotions. Behavioural Brain Research, 2010, 215(2):209-220.
9. Schäble, S., Huston, J.P., Dere, E. de Souza Silva, M.A. Neurokinin-2 receptor antagonism in medial septum influences temporal-order memory for objects and forebrain cholinergic activity. Peptides, 2010, 31(1):108-115.
10. Ruocco, L.A., de Souza Silva, M.A., Topic, B., Mattern, C., Huston, J.P., Sadile, A.G. Intranasal application of dopamine reduces activity and improves attention in Naples High Excitability rats the feature the mesocortical variant of ADHD. European Neuropsychopharmacology, 2009, 19(10):693-701.
11. Huston, J.P., Schulz, D., Topic, B. Toward an animal model of extinction-induced despair: focus on aging and physiological indices. Journal of Neural Transmission, 2009, 116(8):1029-1036.
12. Zlomuzica A., Rocco, L.A., Sadile, A.G., Huston, J.P., Dere, E. Histamine H1 receptor knockout mice exhibit impaired spatial memory in the eight-arm radial maze. British Journal of Pharmacology, 2009, 157(1):86-91.

13. Pum, M.E., Schäble, S., Harooni, H.E., Topic, B., de Souza Silva, M.A, Li, J.-S., Mattern, C., Huston, J.P. Effects of intranasally applied dopamine on behavioral asymmetries in rats with unilateral 6-OHDA lesions of the nigro-striatal tract. *Neuroscience*, 2009, 162(1):174-183.
14. Pum, M.E., Huston, J.P., Müller, C.P. The role of cortical serotonin in anxiety and locomotor activity in Wistar rats. *Behavioral Neuroscience*, 2009, 123(2):449-454.
15. Pum, M.E., Huston, J.P., Müller, C.P., de Souza Silva, M.A. Light-induced activity in the activity box is not aversively motivated and does not show between-trial habituation. *Physiology & Behavior*, 2009, 96(3):434-439.
16. de Souza Silva, M.A., Topic, B., Huston, J.P., Buddenberg, T.E., Mattern, C.E. Dopaminergic and serotonergic activity in neostriatum and nucleus accumbens enhanced by intranasal administration of testosterone. *European Neuropsychopharmacology*, 2009, 19(1):53-63.
17. Topic, B., Oitzl, M.S., Meijer O.C., Huston J.P., de Souza Silva, M.A. Differential susceptibility to extinction-induced despair and age-dependent alterations in hypothalamic-pituitary-adrenal axis and neurochemical parameters, *Neuropsychobiology*, 2008, 58(3-4):138-153.
18. Pum, M.E., Carey, R.J., Huston, J.P., Müller, C.P. Role of the medial prefrontal, entorhinal, and occipital cortex serotonin in cocaine-induced place –preference and hyperlocomotion: Evidence for multiple dissociations. *Psychopharmacology*, 2008, 201(3):391-403.
19. Dere E., Zlomuzica A., Viggiano D., Rocco, L.A., Watanabe T., Sadile, A.G., Huston, J.P., de Souza Silva, M.A. Episodic-like memory and procedural memory impairments in histamine H1-R knockout mice coincide with changes in acetylcholine esterase activity in the hippocampus and dopamine turnover in the cerebellum. *Neuroscience*, 2008, 157:532-541.
20. de Souza Silva, M.A., Topic, B., Huston, J.P., Mattern C. Intranasal administration of progesterone increases dopaminergic activity in amygdala and neostriatum of male rats. *Neuroscience*, 2008, 157:196-203.
21. Topic, B., Huston, J.P., Namestkova, K., Zhu, S.-W., Mohammed, A.H., Schulz, D. Extinction-induced "despair" in aged and adult rats: links to neurotrophins in frontal cortex and hippocampus. *Neurobiology of Learning and Memory*, 2008, 90:519-526.
22. Carey, R.J., Huston, J.P., Müller C.P. Pharmacological inhibition of dopamine and serotonin activity blocks spontaneous and cocaine-activated behaviour. *Progress in Brain Research*, 2008, 172:347-360.
23. Zlomuzica, A., Dere, E., Huston, J.P., de Souza Silva, M.A. NK₃ receptor agonism promotes episodic-like memory in mice. *Neurobiology of Learning and Memory*, 2008, 90:420-425.
24. Carey, R.J., Shanahan, A., Damianopoulos, E.N., Müller, C.P., Huston, J.P. Behavior selectively elicited by novel stimuli: modulation by the 5-HT1A agonist 8-OHDPAT and antagonist WAY-100635. *Behavioural Pharmacology*, 2008, 19(4):361-364.
25. Ponomarenko, A.A., Li, J.-S., Korotkova, T.M., Huston, J.P., Haas, H.L. Frequency of network synchronization in the hippocampus marks learning. *European Journal of Neuroscience*, 2008, 27(6):3035-3042.
26. Pum, M.E., Huston, J.P., De Souza Silva, M.A., Müller, C.P. Visual sensory-motor gating by serotonin activation in the medial prefrontal and occipital, but not in the rhinal, cortices in rats. *Neuroscience*, 2008, 153(2):361-372.
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28. Dere, E., Zheng-Fischerhöfer, Q., Viggiano, D., Gironi Carnevale, U.A., Ruocco, L.A., Zlomuzica, A., Schnichels, M., Willecke, K., Huston, J.P., Sadile, A.G. Connexin31.1 deficiency in the mouse impairs object memory and modulates open-field exploration, acetylcholine esterase levels in the striatum, and cAMP response element-binding protein levels in the striatum and piriform cortex. *Neuroscience*, 2008, 153(2):396-405.
29. Buddenberg T., Topic B., de Souza Silva M.A., Huston J.P., Mattern C. Behavioral actions of intranasal application of dopamine: effects on forced swimming, elevated plus maze and open field parameters. *Neuropsychobiology*, 2008, 57(1-2):70-79.

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31. Barros, M., Maior, R.S., Huston, J.P., Tomaz, C. Predatory stress as an experimental strategy to measure fear and anxiety-related behaviours in non-human primates. *Reviews in the Neurosciences*, 2008, 19(2-3):157-169.
32. Carey, R.J., dePalma, G., Shanahan, A., Samianopoulos, E.N., Müller, C.P., Huston, J.P. Effects on spontaneous and cocaine-induced behaviour of pharmacological inhibition of noradrenergic and serotonergic systems. *Pharmacology, Biochemistry and Behavior*, 2008, 89:54-63.
33. Zheng-Fischhöfer, Q., Schnichels, M., Dere, E., Strotmann, J., McCulloch, F., Kretz, M., Reucher, H., Peti-Peterdi, J., Huston, J.P., Breer, H., Willecke, K. Characterization of connexin30.3-deficient mice suggests a possible role of connexin30.3 in olfaction. *European Journal of Cell Biology*, 2007, 86(11-12):683-670.
34. de Souza Silva, M.A., Topic, B., Huston, J.P., Mattern, C. Intranasal dopamine application increases dopaminergic activity in the neostriatum and nucleus accumbens and enhances motor activity in the open field. *Synapse*, 2008, 62(3):176-184.
35. de Souza Silva, M.A., Topic, B., Lamounier-Zepter, V., Huston, J.P., Tomaz, C., Barros M. Evidence for hemispheric lateralization in the marmoset (*Callithrix penicillata*) based on lateralization of behavioral/neurochemical correlations. *Brain Research Bulletin*, 2007, 74(6):416-428.
36. Schulz, D., Kouri, C., Huston, J.P. Behavior on the water maze platform: relationship to learning and open field exploration in aged and adult rats. *Brain Research Bulletin*, 2007, 74(4): 206-215.
37. Zlomuzica, A., De Souza Silva, M.A., Huston, J.P., Dere, E. NMDA receptor modulation by D₁-cycloserine promotes episodic-like memory in mice. *Psychopharmacology*, 2007, 193(4):503-509.
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39. Jocham, G., Lauber, A.C., Müller, C.P., Huston, J.P., de Souza Silva, M.A. Neurokinin3-receptor activation potentiates the psychomotor and nucleus accumbens dopamine response to cocaine, but not its place conditioning effects. *European Journal of Neuroscience*, 2007, 25:2457-2472.
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41. Müller, C.P., Huston, J.P. Dopamine activity in the occipital and temporal cortex of rats: dissociating effects of sensory but not pharmacological stimulation. *Synapse*, 2007, 61: 254-258
42. Dere, E., de Souza Silva, M.A., Huston, J.P. The pharmacology, neuroanatomy, and neurogenetics of one-trial object recognition in rodents. *Neuroscience & Biobehavioral Reviews*, 2007, 31:673-704.
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44. Schulz, D., Buddenberg, T., Huston, J.P. Extinction-induced „despair“ in the water maze, exploratory behavior and fear: effects of chronic antidepressant treatment. *Neurobiology of Learning and Memory*, 2007, 87(4):624-634.
45. Topic, B., Willuhn, I., Palomero-Gallagher, N., Zilles, K., Huston, J.P., Hasenöhrl, R.U. Impaired maze performance in aged rats is accompanied by increased density of NMDA, 5-HT_{1A}, and α-adrenoceptor binding in hippocampus. *Hippocampus*, 2007, 17(1):68-77.
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51. De Souza Silva, M.A., Mello, E.L., Müller, C.P., Jocham, G., Maior, R.S., Huston, J.P., Tomaz, C., Barros, M. Interaction of the tachykinin NK3 receptor agonist senktide with behavioral effects of cocaine in marmosets (*Callithrix penicillata*). *Peptides*, 2006, 27:2214-2223.
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54. Li, J.S., Krauth, J., Huston, J.P. Operant behavior of rats under fixed-interval reinforcement schedules: A dynamical Analysis vie the extended return map. *Nonlinear Dynamics for Psychology and Life Science*, 2006, 10(2):215-240.
55. Müller, C.P., Huston, J.P. Determining the region-specific contributions of 5-HT receptors to the psychostimulant effects of cocaine. *Trends Pharmacological Sciences*, 2006, 27(2):105-112.
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- negatively reinforced water-maze performance and increased neo- and ventro-striatal dopamine turnover. *Learning & Memory*, 2003, 10:510-519.
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