

CURRICULUM VITAE

4. Dezember 2008

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Staatsangehörigkeit: Deutsch, seit Februar, 2005
Dienstanschrift: Institut für Physiologische Psychologie
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Werdegang

- 1985** Hochschulreife an der E.E.P.S.G. "Cel. Francisco Schmidt", Pereira Barreto, Sao Paulo, Brasilien
- 1986-1990** Studium an der Bundesuniversität Sao Carlos, Sao Paulo, Brasilien
- 1992-1994** Graduiertenprogramm im Fach Psychobiologie an der Universität Sao Paulo, Brasilien Stipendiat des Bildungsministerium der Föderativen Republik Brasilien – CAPES (Koordination zur Ausbildung von Studierenden)
- 1994** Abschluss: M.S. im Fach Psychobiologie an der Universität Sao Paulo, Brasilien. „Die Rolle der Amygdala in der amnestischen Wirkung von anxiolytischen Drogen“
- 1994-1996** Austausch-Stipendiumsaufenthalt am Institut für Physiologische Psychologie der Heinrich-Heine-Universität Düsseldorf gefördert durch das Bildungsministerium der Föderativen Republik Brasilien - CNPq (Föderative Forschungsgemeinschaft)
- 1996-2000** Wissenschaftliche Angestellte am Institut für Physiologische Psychologie der Heinrich-Heine-Universität Düsseldorf
- 1998** Abschluss: Doktor der Naturwissenschaften im Fach Psychobiologie an der Universität São Paulo, Brasilien "Wirkungsweise des Neuropeptids Substanz P im basalen magnozellularen Kern auf die extrazelluläre Konzentration von ACh im Kortex frontalis: Eine in vivo Untersuchung unter Nutzung der Mikrodialyse"
- 2000-2006** Wissenschaftliche Assistentin am Institut für Physiologische Psychologie der Heinrich-Heine-Universität Düsseldorf
- 2006-heute** Wissenschaftliche Mitarbeiterin am Institut für Physiologische Psychologie der Heinrich-Heine-Universität Düsseldorf

Stipendien

- 1992-1994** Stipendiat der Koordination zur Ausbildung von Studierenden (CAPES)
- 1994-1996** Stipendiat der Föderative Forschungsgemeinschaft (CNPq)

Drittmittelförderung

Deutsche Forschungsgemeinschaft

DFG HU 306/23-1 und 23-2.

J. P. Huston und M. A. de Souza Silva

Von Februar, 2001 bis Januar, 2004

Thema: Dopaminerge und Serotonerge Grundlagen der Neurochemischen und Verhalteneseffekt von Kokain

Bewilligte Mittel: € 131.300,00

Deutscher Akademischer Austauschdienst/Koordination zur Ausbildung von Studierenden (DAAD/CAPES - Probal)

Arbeitsgruppe Deutschland: J.P. Huston, M.A. de Souza Silva, C.P. Müller

Arbeitsgruppe Brasilien (Universität Brasilia): C. Tomaz, M. Barros

Von 2003 bis 2005

Thema: Neurochemische Grundlagen der Verhalteneseffekte von Kokain und Angst in Marmoset Affen, *Callithrix penicillata*

Bewilligte Mittel: € 29.500,00

Stiftung für Unterstutzung der Wissenschaft von São Paulo (FAPESP)

FAPESP 02/03705-0

M.L. Brandão und M.A. de Souza Silva

Von Mai, 2003 bis April, 2007

Thema: Neurobiologie der Angst: Rolle des NK₁-Rezeptors und des Neurokinins Substanz P

Bewilligte Mittel: R\$ 132.000,00 = ~€ 47.000,00

Deutsche Forschungsgemeinschaft

DFG DE 792/2-2

M.A. de Souza Silva

Von August, 2005 bis July, 2008

Thema: "Behavioral and neurochemical functions of the neurokinin receptors"

Bewilligte Mittel: €128.179,00

Publikationen

Originalarbeiten:

1. Zlomuzica, A., Dere, E., Huston, J.P., De Souza Silva, M.A. (2008) The selective NK₃ agonist senktide promotes episodic-like memory in mice. *Neurobiology of Learning and Memory*, 90:420-425.
2. De Souza Silva, M.A., Topic, C., Huston, J.P., Mattern, C. (2008) Intranasal dopamine application increases dopaminergic activity in the neostriatum and nucleus accumbens and enhances motor activity in the open field. *Synapse*, 62:176-184.
3. Zlomuzica, A., Viggiano, D., De Souza Silva, M.A., Ishizuka, T., Gironi Carnevale, U.A., Ruocco, L.A., Watanabe, T., Sadile, A.G., Huston, J.P., Dere, E. (2008) The histamine H1-receptor mediates the motivational effects of novelty. *Eur J Neurosci*, 27(6):1461-1474.
4. De Souza Silva, M.A., Topic, B., Huston, J.P., Mattern, C. (2008) Intranasal administration of progesterone increases dopaminergic activity in amygdala and neostriatum of male rats. *Neuroscience*, 157(1):196-203.
5. Pum, M.E., Huston, J.P., De Souza Silva, M.A., Muller, C.P. (2008) Visual sensory-motor gating by serotonin activation in the medial prefrontal and occipital, but not in the rhinal, cortices in rats. *Neuroscience*, 153(2):361-372.
6. Carvalho, M.C., Masson, S., Brandao, M.L., De Souza Silva, M.A. (2008) Anxiolytic-like effects of substance P administration into the dorsal, but not ventral, hippocampus and its influence on serotonin. *Peptides*, 29(7):1191-1200.
7. Buddenberg, T.E., Topic, B., Mahlberg, E.D., De Souza Silva, M.A., Huston, J.P., Mattern, C. (2008) Behavioral actions of intranasal application of dopamine: effects on forced swimming, elevated plus-maze and open field parameters. *Neuropsychobiology*, 57(1-2):70-79.
8. Dere, E., Zlomuzica, A., Viggiano, D., Ruocco, L.A., Watanabe, T., Sadile, A.G., Huston, J.P., De Souza Silva, M.A. (2008) Episodic-like and procedural memory impairments in histamine H1 Receptor knockout mice coincide with changes in acetylcholine esterase activity in the hippocampus and dopamine turnover in the cerebellum. *Neuroscience*, 157(3):532-541.
9. Greschat, S., Schira, J., Kury, P., Rosenbaum, C., De Souza Silva, M.A., Kogler, G., Wernet, P., Muller, H.W. (2008) Unrestricted somatic stem cells from human umbilical cord blood can be differentiated into neurons with a dopaminergic phenotype. *Stem Cells Dev*, 17(2):221-232.

10. Muller, C.P., Carey, R.J., Wilkisz, M., Schwenzner, S., Jocham, G., Huston, J.P., De Souza Silva, M.A. (2008) Acute anxiolytic effects of cocaine: the role of test latency and activity phase. *Pharmacol Biochem Behav*, 89(2):218-226.
11. Muller, C.P., De Souza Silva, M.A., Huston, J.P. (2007) Double dissociating effects of sensory stimulation and cocaine on serotonin activity in the occipital and temporal cortices. *Neuropharmacology*, 52(3): 854-862.
12. De Souza Silva, M.A., Topic, B., Lamounier-Zepter, v., Huston, J.P., Tomaz, C., Barros, M. (2007) Evidence for hemispheric specialization in the marmoset (*Callithrix penicillata*) based on lateralization of behavioral/neurochemical correlations. *Brain Research Bulletin*, 74:416-428.
13. De Souza Silva, M.A., Marchetti, L., Eisel, U.L., Huston, J.P., Dere, E. (2007) NR2C by NR2B subunit exchange in juvenile mice affects emotionality and 5-HT in the frontal cortex. *Genes Brain and Behavior*, 6(5) 465-472.
14. Jocham, G.; Lauber, A.C.; Muller, C.P.; Huston, J.P.; De Souza Silva, M.A. (2007) Neurokinin 3 receptor activation potentiates the psychomotor and nucleus accumbens dopamine response to cocaine, but not its place conditioning effects. *European Journal of Neuroscience*, 25(8):2457-2472.
15. Zlomuzica, A., De Souza Silva, M.A., Huston, J.P., Dere, E. (2007) NMDA receptor modulation by D-cycloserine promotes episodic-like memory in mice. *Psychopharmacology*, 193(4): 503-509.
16. Kart-Teke, E., Dere, E., Huston, J.P., De Souza Silva, M.A. (2007) Reinstatement of Episodic-like memory in rats by NK-1 antagonism. *Neurobiology of Learning and Memory*, 87: 324-331.
17. Jocham, G., Kart-Teke, E., Müller, C.P., Huston, J.P., De Souza Silva, M.A. (2006) Neurokinin3 receptor antagonism attenuates cocaine's rewarding and hyperlocomotor effects yet potentiates its dopamine-enhancing action in the nucleus accumbens core. *European Journal of Neuroscience*, 24: 1721-1732.
18. De Souza Silva, M.A., Dolga, A., Pieri, I., Marchetti, L., Eisel, U.L.M., Huston, J.P., Dere, E. (2006) Cholinergic cells in the nucleus basalis of mice express the N-methyl-D-aspartate-receptor subunit NR2C and its replacement by the NR2B subunit enhances frontal and amygdaloid acetylcholine levels. *Genes, Brain and Behavior*, 5: 552-560.
19. De Souza Silva, M.A., Mello, E.L., Müller, C.P., Jocham, G., Maior, R.S., Huston, J.P., Tomaz, C., Barros, M. (2006) The Neurokinin-3 receptor antagonist SR142801 blocks

- the behavioral effects of cocaine in marmoset monkeys. *European Journal of Pharmacology*, 536:269-278.
20. De Souza Silva, M.A., Mello, E.L., Müller, C.P., Jocham, G., Maior, R.S., Huston, J.P., Tomaz, C., Barros, M. (2006) Interaction of the neurokinin-3 receptor agonist senktide with behavioral effects of cocaine in marmosets (*Callithrix penicillata*). *Peptides*, 27:2214-2223.
 21. Kart-Teke, E., De Souza Silva, M.A., Huston, J.P., Dere, E. (2006). Wistar rats show episodic-like memory for unique experiences. *Neurobiology of Learning and Memory*, 85(2):173-182.
 22. Topic, B., Dere, E., Schulz, D., De Souza Silva, M.A., Jocham, G., Kart, E., Huston, J.P. (2005) Aged and adult rats compared in acquisition and extinction of escape from the water maze: focus on individual differences. *Behavioral Neuroscience*, 119(1):127-144.
 23. Frisch, C., De Souza-Silva, M.A., Söhl, G., Güldenagel, M., Willecke, K., Huston, J.P., Dere, E. (2005) Stimulus complexity dependent memory impairment and changes in motor performance after deletion of the neuronal gap junction protein connexin36 in mice. *Behavioural Brain Research*, 157:177-185.
 24. Macedo, C.E., Martinez, R.C.R., De Souza Silva, M.A., Brandao, M.L. (2005) Increases in extracellular levels of 5-HT and dopamine in the basolateral, but not central, nucleus of amygdala induced by aversive stimulation of the inferior colliculus. *European Journal of Neuroscience*, 21:1131-1138.
 25. Dere, E., Huston, J.P., De Souza Silva, M.A. (2005) Episodic-like memory in mice: Simultaneous assessment of object, place and temporal order memory. *Brain Research Protocols*, 16:10-19.
 26. Dere, E., Huston, J.P., De Souza Silva, M.A. (2005) Integrated memory for objects, places, and temporal order: evidence for episodic-like memory in mice. *Neurobiology of Learning and Memory*, 84:214-221.
 27. Müller, C.P., Thönnessen, H., De Souza Silva, M.A., Fink, H., Bert, B., Carey, R.J., Huston, J.P. (2004) Nucleus accumbens serotonin_{1A} receptors control cocaine- induced hyperactivity but not local serotonin increase: an in vivo microdialysis study. *Neuropharmacology*, 47:205-215.

28. Barros, M., De Souza Silva, M.A., Huston, J.P., Tomaz, C. (2004) Multibehavioral analysis of fear and anxiety before, during, and after experimentally induced predatory stress in *Callithrix penicillata*. *Pharmacology, Biochemistry & Behavior*, 78(2):357-367.
29. Dere, E., De Souza Silva, M.A., Huston, J.P. (2004) Higher order memories for objects encountered in different spatio-temporal contexts in mice: evidence for episodic memory. *Reviews in the Neurosciences*, 15:231-240.
30. Dere, E., De Souza Silva, M.A., Spieler, R.E., Lin, J.S., Ohtsu, H., Haas, H.L., Huston, J.P. (2004) Changes in motoric, exploratory and emotional behaviors and neuronal acetylcholine content and 5-HT turnover in histidine-decarboxylase-KO mice. *European Journal of Neuroscience*, 20:1051-1058.
31. Schulz, D., Topic, B., De Souza Silva, M.A., Huston, J.P. (2004) Extinction-induced immobility in the water maze and its neurochemical concomitants in aged and adult rats: A possible model for depression? *Neurobiology of Learning and Memory*, 82:128-141.
32. Kart, E., Jocham, G., Müller, C.P., Schlömer, C., Brandão, M.L., Huston, J.P., De Souza Silva, M.A. (2004) Neurokinin-1 receptor antagonism by SR140333: enhanced in vivo ACh in the hippocampus and promnestic post-trial effects. *Peptides*, 25(11):1959-1969.
33. Barros, M., Mello Jr., E.L., Maior, R.S., Müller, C.P., De Souza Silva, M.A., Carey, R.J., Huston, J.P., Tomaz, C. (2003) Anxiolytic-like effects of the selective 5-HT_{1A} receptor antagonist WAY 100635 in non-human primates. *European Journal of Pharmacology*, 482:197-203.
34. Dere, E., De Souza Silva, M.A., Frisch, B., Teubner, B., Söhl, G., Willecke, K., Huston, J.P. (2003) Connexin30-deficient mice show increased emotionality and decreased rearing activity in the open-field along with neurochemical changes. *European Journal of Neuroscience*, 18:629-638.
35. Dere, E., De Souza Silva, M.A., Topic, B., Spieler, R.E., Haas, H.L. Huston, J.P. (2003) Histidine-decarboxylase knockout mice show deficient nonreinforced episodic object memory, improved negatively reinforced water-maze performance, and increased neo- and ventro-striatal dopamine turnover. *Learning & Memory*, 10:510-519.
36. Dere, E., Topic, B., De Souza Silva, M.A., Fink, H., Buddenberg, T., Huston, J.P. (2003) NMDA-receptor antagonism via dextromethorphan and ifenprodil modulates

- graded anxiety test performance of C57BL/6 mice. *Behavioural Pharmacology*, 14:245-249.
37. Frisch, C., Theis, M., De Souza Silva, M.A., Dere, E., Söhl, G., Teubner, B., Namestkova, K., Willecke, K., Huston, J.P. (2003) Mice with astrocyte-directed inactivation of connexin43 exhibit increased exploratory behavior, impaired motor capacities, and changes in brain acetylcholine levels. *European Journal of Neuroscience*, 18:2313-2318.
38. Jezek, K., Schulz, D., De Souza Silva, M.A., Müller, H.-W., Huston, J.P. and Hasenöhr, R.U. (2003) Effects of chronic intraventricular infusion of heparin glycosaminoglycan on learning and brain acetylcholine parameters in aged rats. *Behavioural Brain Research*, 147:115-123.
39. Barros, M., De Souza Silva, M.A., Huston, J.P., Tomaz, C. (2002) Anxiolytic-like effects of SP fragment (SP₁₋₇) in non-human primates (*Callitrix penicillata*). *Peptides*, 23:967-973.
40. De Souza Silva, M.A., Jezek, K., Weth, H. Müller, H.W., Huston, J.P., Brandão, M.L., Hasenöhr, R.U. (2002) Facilitation of learning and modulation of frontal cortex acetylcholine by ventral pallidal injection of heparin glucosaminoglycan. *Neuroscience*, 113(3): 529-535.
41. Müller, C.P. De Souza Silva, M.A., DePalma, G., Tomaz, C., Carey, R.J., Huston, J.P. (2002) The selective serotonin_{1A}-receptor antagonist WAY 100635 blocks behavioral stimulating effects of cocaine but not ventral striatal dopamine increase. *Behavioral Brain Research*, 134: 337-346.
42. Müller, C.P.; Carey, R.J.; De Souza Silva, M.A.; Jocham, G., Huston, J.P. (2002) Cocaine increases serotonergic activity in the hippocampus and nucleus accumbens in vivo: 5-HT_{1A}-receptor antagonism blocks behavioral but potentiates serotonergic activation. *Synapse*, 45:67-77.
43. Macedo, C.E., Castilho, V.M., De Souza Silva, M.A., Brandão, M.L. (2002) Dual 5-HT mechanisms in basolateral and central nuclei of amygdala in the regulation of the defensive behavior of the inferior colliculus. *Brain Research Bulletin*, 59(3): 189-195.
44. Dere, E., De Souza Silva, M.A., Topic, B., Fiorillo, C., Li, J.-S., Sadile, A.G., Frisch, C., Huston, J.P. (2002) Aged endothelial nitric oxide synthase knockout mice exhibit higher mortality concomitant with impaired open-field habituation and alterations in forebrain neurotransmitters levels. *Genes, Brain and Behavior*, 1:204-213.

45. Dere, E., Topic, B., De Souza Silva, M.A., Srejjic, M., Frisch, C., Buddenberg, T., Huston, J.P. (2002) The graded anxiety test: a novel test of murine unconditioned anxiety based on the principles of the elevated plus-maze and light-dark test. *Journal of Neuroscience Methods*, 122:65-73.
46. Dere, E., Frisch, C., De Souza Silva, M.A., Gödecke, A., Schrader, J., Huston, J.P. (2001) Unaltered radial maze performance and brain acetylcholine of the endothelial nitric oxide synthase knockout mouse. *Neuroscience*, 107(4):561-570.
47. Frisch, C., Dere, E., De Souza Silva, M.A., Goedecke, J., Schrader, J., Huston, J.P. (2000) Superior water maze performance and increase in fear-related behavior in the endothelial nitric oxide synthase-deficient mouse together with monoamine changes in cerebellum and ventral striatum, *The Journal of Neuroscience*, 20(17): 6694-6700.
48. De Souza Silva, M.A., Hasenöhrl, R.U., Tomaz, C. Schwarting, R.K.W., Huston, J.P. (2000) Differential modulation of frontal cortex acetylcholine by injection of substance P into the nucleus basalis magnocellularis region in the freely-moving vs the anesthetized preparation, *Synapse*, 38(3):243-253.
49. Huston, J.P., Weth, K., De Souza Silva, M.A., Junghans, U., Müller, H.W., Hasenöhrl, R.U. (2000) Facilitation of learning and long-term ventral pallidal-cortical cholinergic activation by proteoglycan biglycan and chondroitin sulfate C. *Neuroscience*, 100(2):355-361.
50. Hasenöhrl, R.U., Jentjens, O., De Souza Silva, M.A., Tomaz, C., Huston, J.P. (1998) Anxiolytic-like action of neurokinin substance P administered systemically or into the nucleus basalis magnocellularis region. *European Journal of Pharmacology*, 354:123-133.
51. Dringenberg, H.C., De Souza Silva, M.A., Roßmüller, J., Huston, J.P., Schwarting, R.K.W. (1998) Histamine H₁ receptor antagonists produce increases in extracellular acetylcholine in the rat frontal cortex and hippocampus. *Journal of Neurochemistry*, 70:1750-1758.
52. Dringenberg, H.C., De Souza Silva, M.A., Schwarting, R.K.W., Huston, J.P. (1998) Increased levels of extracellular dopamine in neostriatum and nucleus accumbens after histamine H₁ receptor blockade. *Naunyn-Schmiedeberg's Archives Pharmacology*, 358:423-429.
53. De Souza Silva, M.A., Mattern, C., Häcker, R., Tomaz, C., Huston, J.P., Schwarting, R.K.W.(1997) Increased neostriatal dopamine activity after intraperitoneal or intranasal

administration of L-DOPA: On the role of benserazide pretreatment. *Synapse*, 27:294-302.

54. De Souza Silva, M.A., Mattern, C., Häcker, R., Nogueira, P.J.C., Huston, J.P., Schwarting, R.K.W. (1997) Intranasal administration of the dopaminergic agonist L-DOPA, amphetamine, and cocaine increases dopamine activity in the neostriatum: a microdialysis study in the rat. *Journal of Neurochemistry*, 68:233-239.
55. Gargiulo, P.A., Viana, M.B., Graeff, F.G., De Souza Silva, M.A., Tomaz, C. (1996) Effects on anxiety and memory of systemic and intra-amygdala injection of the 5-HT₃ receptor antagonist BRL 46470A. *Neuropsychobiology*, 33:189-195.
56. Hasenöhr, R.U., Nichau, C.H., Frisch, C.H., De Souza Silva, M.A., Huston, J.P., Mattern, C.M., Häcker, R. (1995) Anxiolytic-like effects of combined extract of *Zingiber officinale* and *Ginkgo biloba* in the elevated plus-maze. *Pharmacology, Biochemistry and Behavior*, 53(2):271-275.
57. De Souza Silva, M.A., Tomaz, C. (1995) Amnesia after diazepam infusion into the basolateral but not central amygdala of *Rattus norvegicus*. *Neuropsychobiology*, 32:31-36.
58. Tomaz, C., Dickinson-Anson, H., McGaugh, J.L., De Souza Silva, M.A., Viana, M.B., Graeff, F.G. (1993) Localization into the amygdala of the amnesic action of diazepam on emotional memory. *Behavioural Brain Research*, 58:99-105.
59. De Souza Silva, M.A., Guimaraes, F.S., Graeff, F.G., Tomaz, C. (1993) Absence of amnesic effect of an anxiolytic 5-HT₃ antagonist (BRL 46470A) injected into basolateral amygdala, as opposed to diazepam. *Behavioural Brain Research*, 59:141-145.

Submitted and in press:

1. De Souza Silva, M.A., Mattern, C., Topic, B., Buddenberg, T.E., Huston, J.P. (2008) Dopaminergic and serotonergic activity in neostriatum and nucleus accumbens enhanced by intranasal administration of testosterone. *Eur Neuropsychopharmacol*, In press.
2. Ambree, O., Richter, H., Sachser, N., Lewejohann, L., Dere, E., De Souza Silva, M.A., Herring, A, Keyvani, K., Paulus, W., Schabitz, W.R. (2008) Levodopa ameliorates learning and memory deficits in a murine model of Alzheimer's disease. *Neurobiol Aging*, In press.

3. 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*, In press.
4. Buddenberg, T.E., Ruocco, L.A., De Souza Silva, M.A., Topic, B. Attenuating effects of testosterone on immobility in the forced swim test in healthy male rats. Submitted

Übersichtsarbeiten:

1. De Souza Silva, M.A., Jocham, G., Barros, M., Müller, C. (2008) Neurokinin₃ receptors modulation of the behavioral and neurochemical effects of cocaine in rats and monkeys. *Reviews in the Neurosciences*, 19:101-111.
2. Müller, C.P., Carey, R., Huston, J.P., De Souza Silva, M.A. (2007) Serotonin and psychostimulants addiction: Focus on 5-HT_{1A} receptors. *Progress in Neurobiology* 81: 133-178.
3. Dere, E., Huston, J.P., De Souza Silva, M.A. (2007) The pharmacology, neuroanatomy, and neurogenetics of one-trial object recognition in rodents. *Neuroscience & Biobehavioral Reviews*, 31(5): 673-704.
4. Dere, E., Kart-Teke, E., Huston, J.P., De Souza Silva, M.A. (2006) The case for episodic memory in animals. *Neuroscience & Biobehavioral Reviews*, 30(8): 1206-1224.
5. Brandao, M.L., Troncoso, A.C., De Souza Silva, M.A., Huston, J.P. (2003) The relevance of neuronal substrates of defense in the midbrain tectum to anxiety and stress: empirical and conceptual considerations. *European Journal of Pharmacology*, 463:225-233.
6. Hasenöhr, R.U., De Souza Silva, M.A., Nikolaus, S., Tomaz, C., Brandão, M.L., Schwarting, R.K.W., Huston, J.P. (2000) Substance P and its role in neural mechanisms governing learning, anxiety and functional recovery. *Neuropeptides*, 34(5): 272-280.

Buchkapitel:

1. De Souza Silva, M.A., Müller, C.P., Huston, J.P. (2007) Microdialysis in anesthetized vs freely moving animals. In Ben HC Westerink and T. Cremers (Eds.) **Handbook of**

Microdialysis: Methods, Applications and Perspectives. Elsevier Science Publishers, Amsterdam.

2. Dere, E., Huston, J.P., De Souza Silva, M.A. The neurobiology of spontaneous one-trial object recognition in rodents. In R. Gerlai and W. Crusio (Eds) **Handbook of Behavioral Genetics of the Mouse, Volume 1: Genetics of Behavioral Phenotypes.** Elsevier Science Publishers, Amsterdam. *In press.*
3. Dere, E., Kart-Teke, E., De Souza Silva, M.A. A protocol to measure one-trial episodic object memory in mice. In R. Gerlai and W. Crusio (Eds) **Handbook of Behavioral Genetics of the Mouse, Volume 3: Genetics of Behavioral Phenotypes.** Elsevier Science Publishers, Amsterdam. *In preparation.*
4. Dere, E., Zlomuzica, A., Huston, J.P., Kart-Teke, E., De Souza Silva, M.A. Animal episodic memory. In E. Dere, A. Easton, L.Nadel, J.P. Huston (Eds) **Handbook of behavioral neuroscience: episodic memory research.** Elsevier Science Publishers, Amsterdam. *In press.*

Eingeladene Hauptvorträge

M.A. de Souza Silva – Interactions of neurokinin-3 receptors with behavioral and dopaminergic effects of cocaine in subregions of the nucleus accumbens, Symposium: **In Vivo Monitoring of Neuropeptides and their Interactions.** Monitoring Molecules in the Neuroscience – 11th International Conference on In vivo Methods, Villasimius, Italy, 19-22. Mai, 2006.

M.A. De Souza Silva - Role of the neurokinin receptors in memory and reinforcement processes, Symposium: **Pharmacology of Learning and Memory: New Insights, Novel Drug Targets.** CINP, Chicago, 9-13. Juli, 2006