

CMA Citations 2010

1. Carrozzo, M.M. et al., 2010. Quantitative analysis of acetylcholine in rat brain microdialysates by liquid chromatography coupled with electrospray ionization tandem mass spectrometry. *Journal of Neuroscience Methods*, 194(1), pp.87–93.
2. Nagy, K. et al., 2010. Alterations in Brain Extracellular Dopamine and Glycine Levels Following Combined Administration of the Glycine Transporter Type-1 Inhibitor Org-24461 and Risperidone. *Neurochemical Research*, 35(12), pp.2096–2106.
3. Liu, Y. et al., 2010a. Capillary UHPLC with Elevated Temperature for Sub-One Minute Separations of Basal Serotonin in Sub-Microliter Brain Microdialysate Samples. *Analytical chemistry*, 82(23), pp.9611–9616.
4. Liu, Y. et al., 2010b. Capillary Ultrahigh Performance Liquid Chromatography with Elevated Temperature for Sub-One Minute Separations of Basal Serotonin in Submicroliter Brain Microdialysate Samples. *Analytical Chemistry*, 82(23), pp.9611–9616.
5. Oria, M. et al., 2010. Motor-evoked potentials in awake rats are a valid method of assessing hepatic encephalopathy and of studying its pathogenesis. *Hepatology*, 52(6), pp.2077–2085.
6. Clinckers, R. et al., 2010. Pharmacological and neurochemical characterization of the involvement of hippocampal adrenoreceptor subtypes in the modulation of acute limbic seizures. *Journal of Neurochemistry*, 115(6), pp.1595–1607.
7. Melrose, H.L. et al., 2010. Impaired dopaminergic neurotransmission and microtubule-associated protein tau alterations in human LRRK2 transgenic mice. *Neurobiology of Disease*, 40(3), pp.503–517.
8. Ishikawa, A. et al., 2010. Altered electrolyte handling of the choroid plexus in rats with glycerol-induced acute renal failure. *Biopharmaceutics & Drug Disposition*, 31(8–9), pp.455–463.
9. Åberg, A.M. et al., 2010. Ischaemic pre-conditioning means an increased adenosine metabolism with decreased glycolytic flow in ischaemic pig myocardium. *Acta Anaesthesiologica Scandinavica*, 54(10), pp.1257–1264.
10. Vieira, M. de L.T., Singh, R.P. & Derendorf, H., 2010. Simultaneous HPLC analysis of triamcinolone acetonide and budesonide in microdialysate and rat plasma: Application to a pharmacokinetic study. *Journal of Chromatography B*, 878(29), pp.2967–2973.
11. Wong, B.J. & Fieger, S.M., 2010. Transient receptor potential vanilloid type-1 (TRPV-1) channels contribute to cutaneous thermal hyperaemia in humans. *The Journal of Physiology*, 588(21), pp.4317–4326.
12. Lubbers, L.S. et al., 2010. Estrogen receptor (ER) subtype agonists alter monoamine levels in the female rat brain. *The Journal of Steroid Biochemistry and Molecular Biology*, 122(5), pp.310–317.
13. Savage, L.M. & Guarino, S., 2010. Memory for reward location is enhanced even though acetylcholine efflux within the amygdala is impaired in rats with damage to the diencephalon produced by thiamine deficiency. *Neurobiology of Learning and Memory*, 94(4), pp.554–560.
14. Cass, W.A. & Peters, L.E., 2010a. Neurturin protects against 6-hydroxydopamine-induced reductions in evoked dopamine overflow in rat striatum. *Neurochemistry International*, 57(5), pp.540–546.
15. Rytönen, K.-M. et al., 2010. Nitric oxide mediated recovery sleep is attenuated with aging. *Neurobiology of Aging*, 31(11), pp.2011–2019.

16. Li, Z., Boules, M., et al., 2010. Similarities in the behavior and molecular deficits in the frontal cortex between the neurotensin receptor subtype 1 knockout mice and chronic phencyclidine-treated mice: Relevance to schizophrenia. *Neurobiology of Disease*, 40(2), pp.467–477.
17. Wang, J. et al., 2010. Nucleus Accumbens-Derived GDNF is a Retrograde Enhancer of Dopaminergic Tone in the Mesocorticolimbic System. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 30(43), pp.14502–14512.
18. Nunes, B.V.F. et al., 2010. Evaluation of the effects and mechanisms of action of glufosinate, an organophosphate insecticide, on striatal dopamine release by using in vivo microdialysis in freely moving rats. *Archives of Toxicology*, 84(10), pp.777–785.
19. Ellrich, J. et al., 2010. Inhibition of nitric oxide synthases prevents and reverses α,β -meATP-induced neck muscle nociception in mice. *Cephalalgia*, 30(10), pp.1225–1232.
20. Si, W. et al., 2010. Neuropeptide S stimulates dopaminergic neurotransmission in the medial prefrontal cortex. *Journal of Neurochemistry*, 115(2), pp.475–482.
21. Francl, J.M., Kaur, G. & Glass, J.D., 2010. Roles of light and serotonin in the regulation of gastrin-releasing peptide and arginine vasopressin output in the hamster SCN circadian clock. *European Journal of Neuroscience*, 32(7), pp.1170–1179.
22. Montezinho, L.P. et al., 2010. The effects of acute treatment with escitalopram on the different stages of contextual fear conditioning are reversed by atomoxetine. *Psychopharmacology*, 212(2), pp.131–143.
23. Sotomayor-Zárate, R. et al., 2010. Activation of GABA-B receptors induced by systemic amphetamine abolishes dopamine release in the rat lateral septum. *Journal of Neurochemistry*, 114(6), pp.1678–1686.
24. Fieger, S.M. & Wong, B.J., 2010. Adenosine receptor inhibition with theophylline attenuates the skin blood flow response to local heating in humans. *Experimental Physiology*, 95(9), pp.946–954.
25. Anzalone, S. et al., 2010. Cortical cholinergic abnormalities contribute to the amnesic state induced by pyriithiamine-induced thiamine deficiency in the rat. *European Journal of Neuroscience*, 32(5), pp.847–858.
26. Kiran Vaka, S.R. & Narasimha Murthy, S., 2010. Enhancement of nose-brain delivery of therapeutic agents for treating neurodegenerative diseases using peppermint oil. *Die Pharmazie - An International Journal of Pharmaceutical Sciences*, 65(9), pp.690–692.
27. Lin, L., Gao, H., et al., 2010. LC-ED with an Acetylene Black–Dihexadecyl Hydrogen Phosphate Composite Film-Modified Electrode for in Vivo Analysis of Thiols in Rat Striatal Microdialysate. *Chromatographia*, 72(5–6), pp.447–452.
28. Auclair, A.L. et al., 2010. The central serotonin2B receptor: a new pharmacological target to modulate the mesoaccumbens dopaminergic pathway activity. *Journal of Neurochemistry*, 114(5), pp.1323–1332.
29. Gan, L. et al., 2010. Self-assembled liquid crystalline nanoparticles as a novel ophthalmic delivery system for dexamethasone: Improving preocular retention and ocular bioavailability. *International Journal of Pharmaceutics*, 396(1–2), pp.179–187.
30. Cortez, A.M. et al., 2010. Age-dependent effects of κ -opioid receptor stimulation on cocaine-induced stereotyped behaviors and dopamine overflow in the caudate–putamen: an in vivo microdialysis study. *Neuroscience*, 169(1), pp.203–213.
31. Lin, L., Song, C., et al., 2010. Electrochemical determination of xanthine and hypoxanthine in rat striatum with an acetylene black-dihexadecyl hydrogen phosphate composite film modified electrode by HPLC coupled with in vivo microdialysis. *Microchimica Acta*, 170(1–2), pp.47–52.
32. Saarinen, N.M., Abrahamsson, A. & Dabrosin, C., 2010. Estrogen-induced angiogenic factors derived from stromal and cancer cells are differently regulated by enterolactone and genistein in human breast cancer in vivo. *International Journal of Cancer*, 127(3), pp.737–745.

33. Suto, N. et al., 2010. Extracellular fluctuations of dopamine and glutamate in the nucleus accumbens core and shell associated with lever-pressing during cocaine self-administration, extinction, and yoked cocaine administration. *Psychopharmacology*, 211(3), pp.267–275.
34. Kuter, K. et al., 2010. Increased Reactive Oxygen Species Production in the Brain After Repeated Low-Dose Pesticide Paraquat Exposure in Rats. A Comparison with Peripheral Tissues. *Neurochemical Research*, 35(8), pp.1121–1130.
35. Beyer, C.E. et al., 2010. Depression-like phenotype following chronic CB1 receptor antagonism. *Neurobiology of Disease*, 39(2), pp.148–155.
36. Guzmán-Ramos, K. et al., 2010. Off-line concomitant release of dopamine and glutamate involvement in taste memory consolidation. *Journal of Neurochemistry*, 114(1), pp.226–236.
37. Garcia-Reitböck, P. et al., 2010. SNARE protein redistribution and synaptic failure in a transgenic mouse model of Parkinson’s disease. *Brain*, 133(7), pp.2032–2044.
38. Kehr, J. et al., 2010. The selective 5-HT1A receptor antagonist NAD-299 increases acetylcholine release but not extracellular glutamate levels in the frontal cortex and hippocampus of awake rat. *European Neuropsychopharmacology*, 20(7), pp.487–500.
39. Boix, J., Cauli, O. & Felipo, V., 2010. Developmental exposure to polychlorinated biphenyls 52, 138 or 180 affects differentially learning or motor coordination in adult rats. mechanisms involved. *Neuroscience*, 167(4), pp.994–1003.
40. Walter, B. et al., 2010. Age-dependent effects of gradual decreases in cerebral perfusion pressure on the neurochemical response in swine. *Intensive Care Medicine*, 36(6), pp.1067–1075.
41. Wintner, E.A. et al., 2010. A monobromobimane-based assay to measure the pharmacokinetic profile of reactive sulphide species in blood. *British Journal of Pharmacology*, 160(4), pp.941–957.
42. Jiang, H. et al., 2010. Determination of the Interaction of Arsenic and Human Serum Albumin by Online Microdialysis Coupled to LC with Hydride Generation Atomic Fluorescence Spectroscopy. *Chromatographia*, 71(11–12), pp.1075–1079.
43. Andersen, M.L. et al., 2010. Dopamine transporter-related effects of modafinil in rhesus monkeys. *Psychopharmacology*, 210(3), pp.439–448.
44. Cui, M.L. et al., 2010. Impaired Cation Transport May Lead to Bioelectrical Impedance Changes during Hepatic Ischemia. *Journal of the Korean Surgical Society*, 78(6), pp.390–397.
45. Tůma, P. et al., 2010. The use of capillary electrophoresis with contactless conductivity detection for monitoring of glycerol in adipose tissues during a sporting performance. *ELECTROPHORESIS*, 31(12), pp.2037–2043.
46. Kurling-Kailanto, S., Kankaanpää, A., Hautaniemi, J., et al., 2010. Blockade of androgen or estrogen receptors reduces nandrolone’s ability to modulate acute reward-related neurochemical effects of amphetamine in rat brain. *Pharmacology Biochemistry and Behavior*, 95(4), pp.422–427.
47. Li, Z., Liang, Y., et al., 2010. Effect of amphetamine on extracellular concentrations of amino acids in striatum in neurotensin subtype 1 and 2 receptor null mice: A possible interaction between neurotensin receptors and amino acid systems for study of schizophrenia. *Neuropharmacology*, 58(7), pp.1174–1178.
48. Mou, X. et al., 2010. Long-term calibration considerations during subcutaneous microdialysis sampling in mobile rats. *Biomaterials*, 31(16), pp.4530–4539.
49. Ahabrach, H. et al., 2010. Chronic hyperammonemia alters the circadian rhythms of corticosteroid hormone levels and of motor activity in rats. *Journal of Neuroscience Research*, 88(7), pp.1605–1614.
50. Mukherjee, R. et al., 2010. Short-term Disruption in Regional Left Ventricular Electrical Conduction Patterns Increases Interstitial Matrix Metalloproteinase Activity. *American Journal of Physiology - Heart and*

Circulatory Physiology. Available at:

<http://ajpheart.physiology.org/content/early/2010/05/14/ajpheart.00065.2010> .

51. Vallee, N., Rostain, J.-C. & Risso, J.-J., 2010. A Pressurized Nitrogen Counterbalance to Cortical Glutamatergic Pathway Stimulation. *Neurochemical Research*, 35(5), pp.718–726.
52. Lecanu, L. et al., 2010. Dimethyl-Carbamic Acid 2,3-Bis-Dimethylcarbamoyloxy-6-(4-Ethyl-Piperazine- 1-Carbonyl)-Phenyl Ester: A Novel Multi-Target Therapeutic Approach to Neuroprotection. *Medicinal Chemistry*, 6(3), pp.123–140.
53. Zhu, W. et al., 2010. Glucose prevents the fall in ventromedial hypothalamic GABA that is required for full activation of glucose counterregulatory responses during hypoglycemia. *American Journal of Physiology - Endocrinology and Metabolism*, 298(5), pp.E971–E977.
54. Waldenström, A. et al., 2010. Ischaemic preconditioning is related to decreasing levels of extracellular adenosine that may be metabolically useful in the at-risk myocardium: an experimental study in the pig. *Acta Physiologica*, 199(1), pp.1–9.
55. Cass, W.A. & Peters, L.E., 2010b. Neurturin Effects on Nigrostriatal Dopamine Release and Content: Comparison with GDNF. *Neurochemical Research*, 35(5), pp.727–734.
56. Rollema, H. et al., 2010. Pre-clinical properties of the $\alpha 4\beta 2$ nicotinic acetylcholine receptor partial agonists varenicline, cytisine and dianicline translate to clinical efficacy for nicotine dependence. *British Journal of Pharmacology*, 160(2), pp.334–345.
57. Campos, F., Alfonso, M. & Durán, R., 2010. In vivo modulation of $\alpha 7$ nicotinic receptors on striatal glutamate release induced by anatoxin-A. *Neurochemistry International*, 56(6–7), pp.850–855.
58. Stevens, J. et al., 2010. Online solid phase extraction with liquid chromatography–tandem mass spectrometry to analyze remoxipride in small plasma-, brain homogenate-, and brain microdialysate samples. *Journal of Chromatography B*, 878(13–14), pp.969–975.
59. Nandi, P., Desai, D.P. & Lunte, S.M., 2010. Development of a PDMS-based microchip electrophoresis device for continuous online in vivo monitoring of microdialysis samples. *ELECTROPHORESIS*, 31(8), pp.1414–1422.
60. Jacobs, S. et al., 2010. Extracellular fluid concentrations of cisplatin, carboplatin, and oxaliplatin in brain, muscle, and blood measured using microdialysis in nonhuman primates. *Cancer Chemotherapy and Pharmacology*, 65(5), pp.817–824.
61. Patel, S. et al., 2010. Pharmacokinetics of amitriptyline in rabbit skin and plasma following iontophoretic administrations. *Drug Development and Industrial Pharmacy*, 36(4), pp.379–384.
62. Kurling-Kailanto, S., Kankaanpää, A. & Seppälä, T., 2010. Subchronic nandrolone administration reduces cocaine-induced dopamine and 5-hydroxytryptamine outflow in the rat nucleus accumbens. *Psychopharmacology*, 209(3), pp.271–281.
63. Bradley, L.H. et al., 2010. Dopamine Neuron Stimulating Actions of a GDNF Propeptide. *PLOS ONE*, 5(3), p.e9752.
64. Roland, J.J. et al., 2010. Differential effects of systemic and intraseptal administration of the acetylcholinesterase inhibitor tacrine on the recovery of spatial behavior in an animal model of diencephalic amnesia. *European Journal of Pharmacology*, 629(1–3), pp.31–39.
65. Huang, K.-F. et al., 2010. Interleukin-1 receptor antagonist inhibits the release of glutamate, hydroxyl radicals, and prostaglandin E2 in the hypothalamus during pyrogen-induced fever in rabbits. *European Journal of Pharmacology*, 629(1–3), pp.125–131.
66. Kemppainen, H. et al., 2010. GABA and Glutamate Overflow in the VTA and Ventral Pallidum of Alcohol-Preferring AA and Alcohol-Avoiding ANA Rats after Ethanol. *Alcohol and Alcoholism*, 45(2), pp.111–118.
67. Stenken, J.A. et al., 2010. How Minimally Invasive is Microdialysis Sampling? A Cautionary Note for Cytokine

- Collection in Human Skin and other Clinical Studies. *The AAPS Journal*, 12(1), pp.73–78.
68. Boddu, S.H. et al., 2010. Ocular microdialysis: a continuous sampling technique to study pharmacokinetics and pharmacodynamics in the eye. *Bioanalysis*, 2(3), pp.487–507.
 69. Glass, J.D. et al., 2010. On the intrinsic regulation of neuropeptide Y release in the mammalian suprachiasmatic nucleus circadian clock. *European Journal of Neuroscience*, 31(6), pp.1117–1126.
 70. Gao, C. et al., 2010. Pharmacokinetic interaction between puerarin and edaravone, and effect of borneol on the brain distribution kinetics of puerarin in rats. *Journal of Pharmacy and Pharmacology*, 62(3), pp.360–367.
 71. Tronche, C. et al., 2010. Increased stress-induced intra-hippocampus corticosterone rise associated with memory impairments in middle-aged mice. *Neurobiology of Learning and Memory*, 93(3), pp.343–351.
 72. Lü, N. et al., 2010. Nociceptin/Orphanin FQ in PAG modulates the release of amino acids, serotonin and norepinephrine in the rostral ventromedial medulla and spinal cord in rats. *PAIN®*, 148(3), pp.414–425.
 73. Popa, D. et al., 2010. A longitudinal study of 5-HT outflow during chronic fluoxetine treatment using a new technique of chronic microdialysis in a highly emotional mouse strain. *European Journal of Pharmacology*, 628(1–3), pp.83–90.
 74. Amat, J. et al., 2010. Behavioral control over shock blocks behavioral and neurochemical effects of later social defeat. *Neuroscience*, 165(4), pp.1031–1038.
 75. Christianson, J.P. et al., 2010. 5-Hydroxytryptamine 2C Receptors in the Basolateral Amygdala Are Involved in the Expression of Anxiety After Uncontrollable Traumatic Stress. *Biological Psychiatry*, 67(4), pp.339–345.
 76. de Oliveira, I.M. et al., 2010. Effects of the neonicotinoids thiametoxam and clothianidin on in vivo dopamine release in rat striatum. *Toxicology Letters*, 192(3), pp.294–297.
 77. McKee, A.G. et al., 2010. AAV-mediated chronic over-expression of SNAP-25 in adult rat dorsal hippocampus impairs memory-associated synaptic plasticity. *Journal of Neurochemistry*, 112(4), pp.991–1004.
 78. Yang, Z. et al., 2010. Hyperbaric oxygenation alleviates MCAO-induced brain injury and reduces hydroxyl radical formation and glutamate release. *European Journal of Applied Physiology*, 108(3), pp.513–522.
 79. Demchenko, I.T. et al., 2010. Involvement of Extracellular Superoxide Dismutase in Regulating Brain Blood Flow. *Neuroscience and Behavioral Physiology*, 40(2), p.173.
 80. Natividad, L.A. et al., 2010. Nicotine withdrawal produces a decrease in extracellular levels of dopamine in the nucleus accumbens that is lower in adolescent versus adult male rats. *Synapse (New York, N.Y.)*, 64(2), pp.136–145.
 81. Watanabe, M. et al., 2010. Susceptibility to stress in young rats after 2-week zinc deprivation. *Neurochemistry International*, 56(3), pp.410–416.
 82. Hamani, C. et al., 2010. Antidepressant-Like Effects of Medial Prefrontal Cortex Deep Brain Stimulation in Rats. *Biological Psychiatry*, 67(2), pp.117–124.
 83. Løfgren, B. et al., 2010. Amino acid transamination is crucial for ischaemic cardioprotection in normal and preconditioned isolated rat hearts – focus on l-glutamate. *Experimental Physiology*, 95(1), pp.140–152.
 84. Morley, J.E. et al., 2010. A Physiological Role for Amyloid- β Protein: Enhancement of Learning and Memory. *Journal of Alzheimer's Disease*, 19(2), pp.441–449.
 85. Metzsch, C. et al., 2010. Levosimendan cardioprotection in acutely β -1 adrenergic receptor blocked open chest pigs. *Acta Anaesthesiologica Scandinavica*, 54(1), pp.103–110.
 86. Behrens, H. & Li, L., 2010. Monitoring Neuropeptides In Vivo via Microdialysis and Mass Spectrometry. In M.

- Soloviev, ed. *Peptidomics*. Methods in Molecular Biology. Humana Press, pp. 57–73. Available at: http://dx.doi.org/10.1007/978-1-60761-535-4_5.
87. Dong, Y. et al., 2010. Route of Nicotine Administration Influences In Vivo Dopamine Neuron Activity: Habituation, Needle Injection, and Cannula Infusion. *Journal of Molecular Neuroscience*, 40(1–2), pp.164–171.
 88. Aluf, Y. et al., 2010. Specific oxidative stress profile associated with partial striatal dopaminergic depletion by 6-hydroxydopamine as assessed by a novel multifunctional marker molecule. *Free Radical Research*, 44(6), pp.635–644.
 89. Morris, K.A. et al., 2010. Age-related memory impairments due to reduced blood glucose responses to epinephrine. *Neurobiology of Aging*, 31(12), pp.2136–2145.
 90. Yang, T.-H., Shih, M.-F., et al., 2010. Attenuation of circulatory shock and cerebral ischemia injury in heat stroke by combination treatment with dexamethasone and hydroxyethyl starch. *Experimental & Translational Stroke Medicine*, 2, p.19.
 91. Birkler, R.I.D. et al., 2010. A UPLC–MS/MS application for profiling of intermediary energy metabolites in microdialysis samples—A method for high-throughput. *Journal of Pharmaceutical and Biomedical Analysis*, 53(4), pp.983–990.
 92. Darbin, O., Risso, J.J. & Rostain, J.C., 2010. Dopaminergic control of striatal 5-HT level at normobaric condition and at pressure. Available at: archive.rubicon-foundation.org/xmlui/handle/123456789/9520.
 93. Yang, T.-H., Ho, W.-Y., et al., 2010. Effects of Combination Treatment with Dexamethasone and Mannitol on Neuronal Damage and Survival in Experimental Heat Stroke. *Biological and Pharmaceutical Bulletin*, 33(9), pp.1522–1528.
 94. Hamza, M. et al., 2010. Nitric oxide is negatively correlated to pain during acute inflammation. *Molecular Pain*, 6, p.55.
 95. DuBord, M.-A., Liu, H. & Horner, R.L., 2010. Protein kinase A activators produce a short-term, but not long-term, increase in respiratory-drive transmission at the hypoglossal motor nucleus in vivo. *Neuroscience Letters*, 486(1), pp.14–18.
 96. Chauveau, F. et al., 2010. Rapid stress-induced corticosterone rise in the hippocampus reverses serial memory retrieval pattern. *Hippocampus*, 20(1), pp.196–207.
 97. Adamson, T.W. et al., 2010. Role of the Perifornical Hypothalamic Monoamine Neurotransmitter Systems in Anorectic Effects of Endotoxin. *Neuroendocrinology*, 91(1), pp.48–55.
 98. Navailles, S. et al., 2010. Serotonergic neurons mediate ectopic release of dopamine induced by l-DOPA in a rat model of Parkinson's disease. *Neurobiology of Disease*, 38(1), pp.136–143.
 99. Farnebo, S. et al., 2010. Urea clearance: a new method to register local changes in blood flow in rat skeletal muscle based on microdialysis. *Clinical Physiology and Functional Imaging*, 30(1), pp.57–63.
 100. Young, E.J. & Williams, C.L., 2010. Valence dependent asymmetric release of norepinephrine in the basolateral amygdala. *Behavioral Neuroscience*, 124(5), pp.633–644.
 101. Sørensen, O. et al., 2010. Validation and use of microdialysis for determination of pharmacokinetic properties of the chemotherapeutic agent mitomycin C - an experimental study. *BMC Cancer*, 10, p.469.