

Recent Student Publications

Contribution of Endogenous Spinal Endomorphin 2 to Intrathecal Opioid Antinociception in Rats Is Agonist Dependent and Sexually Dimorphic. **Kumar A**, Liu NJ, Madia PA, Gintzler AR. J Pain. 2015 Nov;16(11):1200-10.

Persistent modifications of hippocampal synaptic function during remote spatial memory. Pavlowsky A, **Wallace E**, Fenton AA, Alarcon JM. Neurobiol Learn Mem. 2016 Aug 26. pii: S1074-7427(16)30158-7

Compensation for PKM ζ in long-term potentiation and spatial long-term memory in mutant mice. Tsokas P, Hsieh C, Yao Y, Lesburguères E, **Wallace EJ**, Tcherepanov A, Jothianandan D, Hartley BR, Pan L, Rivard B, Farese RV, Sajan MP, Bergold PJ, Hernández AI, Cottrell JE, Shouval HZ, Fenton AA, Sacktor TC. Elife. 2016 May 17

Prevention of behavioral deficits in rats exposed to folate receptor antibodies: implication in autism. **Desai A**, Sequeira JM, Quadros EV. Mol Psychiatry. 2016 Sep 20.

Exposure to Folate Receptor Alpha Antibodies during Gestation and Weaning Leads to Severe Behavioral Deficits in Rats: A Pilot Study. Sequeira JM, **Desai A**, Berrocal-Zaragoza MI, Murphy MM, Fernandez-Ballart JD, Quadros EV. PLoS One. 2016 Mar 24;11(3) 27011008

The metabolic basis for developmental disorders due to defective folate transport. **Desai A**, Sequeira JM, Quadros EV. Biochimie. 2016 Jul;126:31-42.

Estrogens Suppress Spinal Endomorphin 2 Release in Female Rats in Phase with the Estrous Cycle. Kumar A¹, Storman EM, Liu NJ, Gintzler AR. Neuroendocrinology. 2015 Apr 29. [Epub ahead of print]

Lack of parvalbumin in mice leads to behavioral deficits relevant to all human autism core symptoms and related neural morphofunctional abnormalities. Wöhr M, Orduz D, Gregory P, Moreno H, **Khan U**, Vörckel KJ, Wolfer DP, Welzl H, Gall D, Schiffmann SN, Schwaller B. Transl Psychiatry. 2015

Toward an autonomous brain machine interface: integrating sensorimotor reward modulation and reinforcement learning. **Marsh BT**¹, Tarigoppula VS¹, Chen C², Francis JT³. J Neurosci. 2015 May 13;35(19):7374-87

A novel, live-attenuated vesicular stomatitis virus vector displaying conformationally intact, functional HIV-1 envelope trimers that elicits potent cellular and humoral responses in mice. **Rabinovich S**¹, Powell RL², Lindsay RW², Yuan M², Carpov A², Wilson A², Lopez M², Coleman JW², Wagner D², Sharma P², Kemelman M², Wright KJ², Seabrook JP², Arendt H², Martinez J², DeStefano J², Chiuchiolo MJ¹, Parks CL¹. PLoS One. 2014 Sep 12;9(9):e106597.

Feasibility of near-infrared spectroscopic tomography for intraoperative functional cerebral monitoring: a primate study. Lee DC, Gevorgyan T, Graber HL, **Pfeil DS**, Xu Y, Mangla S, Barone FC, Libien J, Charchafieh J, Kral JG, Ramirez SA, Simpson L, Barbour RL. J Thorac Cardiovasc Surg. 2014

Oral microbiome link to neurodegeneration in glaucoma. **Astafurov K**, Elhawy E, Ren L, Dong CQ, Igboin C, Hyman L, Griffen A, Mittag T, Danias J. PLoS One. 2014 Sep 2;9(9):e104416.

Enhancing dentate gyrus function with dietary flavanols improves cognition in older adults. Brickman AM, **Khan UA**, Provenzano FA, Yeung LK, Suzuki W, Schroeter H, Wall M, Sloan RP, Small SA. Nat Neurosci. 2014 Dec;17(12):1798-803

Complement expression in the retina is not influenced by short-term pressure elevation. **Astafurov K1**, Dong CQ2, Panagis L1, Kamthan G3, Ren L1, Rozenboym A4, Perera TD5, Coplan JD6, Danias J7. Mol Vis. 2014 Jan 31;20:140-52. eCollection 2014.

Vagal control of cardiac electrical activity and wall motion during ventricular fibrillation in large animals. **Naggar I**, Nakase K, Lazar J, Saliccioli L, Selesnick I, Stewart M. Auton Neurosci. 2014 Jul;183:12-22.

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Imaging patients with psychosis and a mouse model establishes a spreading pattern of hippocampal dysfunction and implicates glutamate as a driver. Schobel SA, Chaudhury NH, **Khan UA**, Paniagua B, Styner MA, Asllani I, Inbar BP, Corcoran CM, Lieberman JA, Moore H, Small SA. Neuron. 2013 Apr 10;78(1):81-93.

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