

[Pharmacological Modulation of Endogenous Opioid Activity to Attenuate Neuropathic Pain in Rats.](#)

Liu NJ, Storman EM, Gintzler AR.

J Pain. 2019 Feb;20(2):235-243. doi: 10.1016/j.jpain.2018.10.003. Epub 2018 Oct 23.

[Exploiting endogenous opioids: Lessons learned from endomorphin 2 in the female rat.](#)

Gintzler AR, Liu NJ, Storman EM, Wessendorf MW.

Peptides. 2019 Feb;112:133-138. doi: 10.1016/j.peptides.2018.12.002. Epub 2018 Dec 14. Review.

[Investigations on the Role of the Fibrinolytic Pathway on Outflow Facility Regulation.](#)

Hu Y, Barron AO, **Gindina S**, Kumar S, Chintala S, Nayyar A, Danias J.

Invest Ophthalmol Vis Sci. 2019 Apr 1;60(5):1571-1580. doi: 10.1167/iovs.18-25698.

[Privacy Concerns About Personal Health Information and Fear of Unintended Use of Biospecimens Impact Donations by African American Patients.](#)

Reddy A, **Amarnani A**, Chen M, Dynes S, Flores B, Moshchinsky A, Lee YJ, Kurbatov V, Shapira I, Vignesh S, Martello L.

J Cancer Educ. 2019 Mar 7. doi: 10.1007/s13187-019-01491-9. [Epub ahead of print]

[Association between otitis media infection and failed hearing screenings in children.](#)

Norowitz HL, **Morello T**, Kupfer HM, Kohlhoff SA, Smith-Norowitz TA.

PLoS One. 2019 Feb 22;14(2):e0212777. doi: 10.1371/journal.pone.0212777. eCollection 2019.

[Estrogens as arbiters of sex-specific and reproductive cycle-dependent opioid analgesic mechanisms.](#)

Gintzler AR, Storman EM, Liu NJ.

Vitam Horm. 2019;111:227-246. doi: 10.1016/bs.vh.2019.06.002. Epub 2019 Jul 2.

[Reward Expectation Modulates Local Field Potentials, Spiking Activity and Spike-Field Coherence in the Primary Motor Cortex.](#)

An J, Yadav T, Hessburg JP, Francis JT.

eNeuro. 2019 Jun 26;6(3). pii: ENEURO.0178-19.2019. doi: 10.1523/ENEURO.0178-19.2019. Print 2019 May/June

[Rare Case of Rectal Mixed Adeno-Neuroendocrine Carcinoma.](#)

Khudiakov A, Al-Sadawi M, Qin J, Haddadin M, **Soroka S**, Hartt A, Soni L, Arora S, McFarlane SI.

Am J Med Case Rep. 2019;7(6):117-120. doi: 10.12691/ajmcr-7-6-5.

[Controlled cortical impact-induced neurodegeneration decreases after administration of the novel calpain-inhibitor Gabadur.](#)

Dugue R, Hassen GW, Shulman A, Goodman JH, Michelson H, Serrano P, Chauhan S, Ling DSF.

Brain Res Bull. 2018 Sep;142:368-373. doi: 10.1016/j.brainresbull.2018.08.016. Epub 2018 Aug 24.

[Physical Linkage of Estrogen Receptor \$\alpha\$ and Aromatase in Rat: Oligocrine and Endocrine Actions of CNS-Produced Estrogens.](#)

Storman EM, Liu NJ, Wessendorf MW, Gintzler AR.

Endocrinology. 2018 Jul 1;159(7):2683-2697. doi: 10.1210/en.2018-00319.

[Paradigm Shift in Sensorimotor Control Research and Brain Machine Interface Control: The Influence of Context on Sensorimotor Representations.](#)

Zhao Y, Hessburg JP, Asok Kumar JN, Francis JT.

Front Neurosci. 2018 Sep 10;12:579. doi: 10.3389/fnins.2018.00579. eCollection 2018.

[ECS Dynamism and Its Influence on Neuronal Excitability and Seizures.](#)

Colbourn R, Naik A, Hrabetova S.

Neurochem Res. 2019 May;44(5):1020-1036. doi: 10.1007/s11064-019-02773-w. Epub 2019 Mar 16. Review

[Thermoresponsive Protein-Engineered Coiled-Coil Hydrogel for Sustained Small Molecule Release.](#)

Hill LK, Meleties M, Katyal P, Xie X, Delgado-Fukushima E, Jihad T, Liu CF, O'Neill S, Tu RS, Renfrew PD, Bonneau R, Wadghiri YZ, **Montclare JK**.

Biomacromolecules. 2019 Sep 9;20(9):3340-3351. doi: 10.1021/acs.biomac.9b00107. Epub 2019 Aug 19.

[Protein-Engineered Nanoscale Micelles for Dynamic ¹⁹F Magnetic Resonance and Therapeutic Drug Delivery.](#)

Hill LK, Frezzo JA, Katyal P, Hoang DM, Ben Youss Gironde Z, Xu C, Xie X, Delgado-Fukushima E, Wadghiri YZ, **Montclare JK**.

ACS Nano. 2019 Mar 26;13(3):2969-2985. doi: 10.1021/acsnano.8b07481. Epub 2019 Feb 19.

[Myocardial Infarction after Snakebite Envenomation: A Scoping Study.](#)

Kariyanna PT, Jayarangaiah A, Kamran H, Schechter J, Soroka S, **Amarnani A**, Ray J, Yacoub M, Post M, Al-Bayati S, McFarlane SI.

Scied J Cardiol. 2018;2(3). pii: 21. Epub 2018 Dec 18.

[Identifying predictive features of Clostridium difficile infection recurrence before, during, and after primary antibiotic treatment.](#)

Pakpour S, Bhanvadia A, Zhu R, **Amarnani A**, Gibbons SM, Gurry T, Alm EJ, Martello LA.

Microbiome. 2017 Nov 13;5(1):148. doi: 10.1186/s40168-017-0368-1.

[Efficient Dual siRNA and Drug Delivery Using Engineered Lipoproteoplexes.](#)

Liu CF, Chen R, Frezzo JA, Katyal P, Hill LK, Yin L, Srivastava N, More HT, Renfrew PD, Bonneau R, **Montclare JK**.

Biomacromolecules. 2017 Sep 11;18(9):2688-2698. doi: 10.1021/acs.biomac.7b00203. Epub 2017 Aug 4.

[Plasticity of Signaling by Spinal Estrogen Receptor \$\alpha\$, \$\kappa\$ -Opioid Receptor, and Metabotropic Glutamate Receptors over the Rat Reproductive Cycle Regulates Spinal Endomorphin 2 Antinociception: Relevance of Endogenous-Biased Agonism.](#)

Liu NJ, Murugaiyan V, **Storman EM**, Schnell SA, **Kumar A**, Wessendorf MW, Gintzler AR. J Neurosci.

2017 Nov 15;37(46):11181-11191. doi: 10.1523/JNEUROSCI.1927-17.2017. Epub 2017 Oct 12

[Estrogens synthesized and acting within a spinal oligomer suppress spinal endomorphin 2 antinociception: ebb and flow over the rat reproductive cycle.](#)

Liu NJ, Murugaiyan V, **Storman EM**, Schnell SA, Wessendorf MW, Gintzler AR. Pain. 2017 Oct;158(10):1903-1914. doi:

10.1097/j.pain.0000000000000991.

[Righting Reflex Predicts Long-Term Histological and Behavioral Outcomes in a Closed Head Model of Traumatic Brain Injury.](#)

Grin'kina NM, Li Y, Haber M, Sangobowale M, Nikulina E, Le'Pre C, El Sehamy AM, **Dugue R**, Ho JS, Bergold PJ. PLoS One. 2016 Sep 22;11(9):e0161053. doi: 10.1371/journal.pone.0161053. eCollection 2016

[T-type calcium channels contribute to calcium disturbances in brain during hyponatremia.](#)

Odackal J, Sherpa AD, Patel N, **Colbourn R**, Hrabetova S. Exp Neurol. 2015 Nov;273:105-13. doi:

10.1016/j.expneurol.2015.08.003. Epub 2015 Aug 6.

[Real-time Iontophoresis with Tetramethylammonium to Quantify Volume Fraction and Tortuosity of Brain Extracellular Space.](#) Odackal J, **Colbourn R**, Odackal NJ, Tao L, Nicholson C, Hrabetova S. J Vis Exp. 2017 Jul 24;(125). doi: 10.3791/55755.

[Synergy between Paclitaxel and Anti-Cancer Peptide PNC-27 in the Treatment of Ovarian Cancer.](#) Alagkiozidis I, Gorelick C, Shah T, Chen YA, Gupta V, Stefanov D, **Amarnani A**, Lee YC, Abulafia O, Sarafraz-Yazdi E, Michl J. Ann Clin Lab Sci. 2017 May;47(3):271-281

[Pilot Study for Grip Force Prediction Using Neural Signals from Different Brain Regions.](#) Bataineh M, **McNiel D**, Choi J, **Hessburg J**, Francis J., Proc South Biomed Eng Conf. 2016 Mar;2016:19-20

[Classifier Performance in Primary Somatosensory Cortex Towards Implementation of a Reinforcement Learning Based Brain Machine Interface.](#) **McNiel D**, Bataineh M, Choi J, Hessburg J, Francis J., Proc South Biomed Eng Conf. 2016 Mar;2016:17-18

[Reward value is encoded in primary somatosensory cortex and can be decoded from neural activity during performance of a psychophysical task.](#) **McNiel DB**, Choi JS, Hessburg JP, Francis JT. Conf Proc IEEE Eng Med Biol Soc. 2016 Aug;2016: 3064-3067

[Eliciting naturalistic cortical responses with a sensory prosthesis via optimized microstimulation.](#) Choi JS, Brockmeier AJ, **McNiel DB**, Kraus LM, Príncipe JC, Francis JT. J Neural Eng. Aug;2016:3064-3067. doi: 10.1109/EMBC.2016.7591376

[Assessment of arterial stiffness from pedal artery Korotkoff sound recordings: feasibility and potential utility.](#)

Ihsan M, Nunez A, Liu Y, Ahmed F, Patel H, Sharma N, Diaz M, Stewart M, **Naggari I**, Saliccioli L, Lazar JM. J Am Soc Hypertens. 2016 Jan;10(1):34-4

[Breaking beta: deconstructing the parasite transmission function.](#) McCallum H, Fenton A, Hudson PJ, **Lee B**, Levick B, Norman R, Perkins SE, Viney M, Wilson AJ, Lello J. Philos Trans R Soc Lond B Biol Sci. 2017 May 5;372(1719). pii: 20160084. doi: 10.1098/rstb.2016.0084. PMID:28289252

[Persistent modifications of hippocampal synaptic function during remote spatial memory.](#) Pavlowsky A, **Wallace E**, Fenton AA, Alarcon JM. Neurobiol Learn Mem. 2017 Feb;138:182-197.

[A Pilot Study to Evaluate the Oral Microbiome and Dental Health in Primary Open-Angle Glaucoma.](#)

Polla D, **Astafurov K**, Hawy E, Hyman L, Hou W, Danias J. J Glaucoma. 2017 Apr;26(4):320-327. doi: 10.1097/IJG.0000000000000465

[Effects of gaboxadol on the expression of cocaine sensitization in rats.](#)

Silverman NS, Popp S, Vialou V, **Astafurov K**, Nestler EJ, Dow-Edwards D. Exp Clin Psychopharmacol. 2016 Apr;24(2):131-41. doi: 10.1037/pha0000069. Epub 2016 Feb 22.

[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.

[Differential Effects of C1qa Ablation on Glaucomatous Damage in Two Sexes in DBA/2Nnia Mice.](#)

Kumari R, **Astafurov K**, Genis A, Danias J. PLoS One. 2015 Nov 6;10(11):e0142199. doi: 10.1371/journal.pone.0142199. eCollection 2015.

[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-

[Compensation for PKM \$\zeta\$ in long-term potentiation and spatial long-term memory in mutant mice.](#) Tsokas P, Hsieh C, Yao Y, Lesbarguères 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. 2017 Sep;22(9):1291-1297. doi: 10.1038/mp.2016.153. Epub 2016 Sep 20. PMID: 27646260

[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 A, Storman EM, Liu NJ, Gintzler AR.

Neuroendocrinology. 2015;102(1-2):33-43. doi: 10.1159/000430817. Epub 2015 Apr 29.

[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 Mar 10;5:e525. doi: 10.1038/tp.2015.19.

[Toward an autonomous brain machine interface: integrating sensorimotor reward modulation and reinforcement learning.](#)

Marsh BT1, Tarigoppula VS1, Chen C2, Francis JT3. *J Neurosci*. 2015 May 13;35(19):7374-87.