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Qualifications

MS in Pharmacology, UNT Health Science Center
PhD in Pharmacology & Neuroscience, UNT Health Science Center
BS in Pharmacy, University of Bombay

Publications

Effects of chronic methamphetamine exposure on rewarding behavior and neurodegeneration markers in adult mice

Davis, D. L., Metzger, D. B., Vann, P. H., Wong, J. M., Shetty, R. A., Forster, M. J. & Sumien, N., Jun 2023, In: Psychopharmacology. 240, 6, p. 1343-1358 16 p.

Comparison of locomotor stimulant and drug discrimination effects of four synthetic cathinones to commonly abused psychostimulants

Shetty, R. A., Hoch, A. C., Sumien, N., Forster, M. J. & Gatch, M. B., May 2023, In: Journal of Psychopharmacology. 37, 5, p. 520-528 9 p.

Expression of stable and reliable preference and aversion phenotypes following place conditioning with psychostimulants

Shetty, R. A., Rutledge, M., LeBouf, A., Mock, J. T., Pathak, G. & Forster, M. J., Aug 2022, In: Psychopharmacology. 239, 8, p. 2593-2603 11 p.

Sex differences in neurobehavioral consequences of methamphetamine exposure in adult mice

Davis, D. L., Metzger, D. B., Vann, P. H., Wong, J. M., Subasinghe, K. H., Garlotte, I. K., Phillips, N. R., Shetty, R. A., Forster, M. J. & Sumien, N., Jul 2022, In: Psychopharmacology. 239, 7, p. 2331-2349 19 p.

Behavioral pharmacology of five novel synthetic cannabinoids

Gatch, M. B., Tourigny, A., Shetty, R. A. & Forster, M. J., 1 Apr 2022, In: Behavioural pharmacology. 33, 23, p. 175-183 9 p.

Behavioral effects of four novel synthetic cathinone analogs in rodents

Gatch, M. B., Shetty, R. A., Sumien, N. & Forster, M. J., Jul 2021, In: Addiction Biology. 26, 4, e12987.

Early loss of cerebellar Purkinje cells in human and a transgenic mouse model of Alzheimer's disease

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Pharmacologic fibroblast reprogramming into photoreceptors restores vision

Mahato, B., Kaya, K. D., Fan, Y., Sumien, N., Shetty, R. A., Zhang, W., Davis, D., Mock, T., Batabyal, S., Ni, A., Mohanty, S., Han, Z., Farjo, R., Forster, M. J., Swaroop, A. & Chavala, S. H., 7 May 2020, In: Nature. 581, 7806, p. 83-88 6 p.

Metformin alters locomotor and cognitive function and brain metabolism in normoglycemic mice

Li, W., Chaudhari, K., Shetty, R., Winters, A., Gao, X., Hu, Z., Ge, W. P., Sumien, N., Forster, M., Liu, R. & Yang, S. H., 2019, In: Aging and Disease. 10, 5, p. 949-963 15 p.

Impure but not inactive: Behavioral pharmacology of dibenzylpiperazine, a common by-product of benzylpiperazine synthesis

Dolan, S. B., Shetty, R. A., Forster, M. J. & Gatch, M. B., 1 Jul 2018, In: Journal of Psychopharmacology. 32, 7, p. 802-810 9 p.

Creatine, creatine kinase, and aging

Sumien, N., Shetty, R. A. & Gonzales, E. B., 2018, *Subcellular Biochemistry*. Springer New York, p. 145-168 24 p. (Subcellular Biochemistry; vol. 90).

Retrograde conditioning of place preference and motor activity with cocaine in mice

Shetty, R. A., Rutledge, M. A. & Forster, M. J., 1 Feb 2017, In: *Psychopharmacology*. 234, 3, p. 515-522 8 p.

Coenzyme Q₁₀ and α -tocopherol reversed age-associated functional impairments in mice

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Transient focal cerebral ischemia induces long-term cognitive function deficit in an experimental ischemic stroke model

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Coenzyme Q₁₀ supplementation reverses age-related impairments in spatial learning and lowers protein oxidation

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Prolonged intake of coenzyme Q₁₀ impairs cognitive functions in mice

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Endovascular middle cerebral artery occlusion in rats as a model for studying vascular dementia

Yang, S. H., Shetty, R. A., Liu, R., Sumien, N., Heinrich, K. R., Rutledge, M., Thangthaeng, N., Brun-Zinkernagel, A. M. & Forster, M. J., Sep 2006, In: *Age*. 28, 3, p. 297-307 11 p.