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Author: J.M Kasper A.J Milton A.E Smith F. Laezza G.

Taglialatela J.D Hommel N. Abate

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Cognitive deficits associated with a high-fat diet and insulin resistance are potentiated by overexpression of Ecto-nucleotide pyrophosphatase phosphodiesterase-1.

JM Kasper^a, AJ Milton^a, AE Smith^a, F Laezza^b, G Taglialatela^c, JD Hommel^a, and N Abate^d

^a Center for Addiction Research, Department of Pharmacology and Toxicology, University of Texas Medical Branch, Galveston, Texas

^b Department of Pharmacology and Toxicology, University of Texas Medical Branch, Galveston, Texas

^c Mitchell Center for Neurodegenerative Disease, Department of Neurology, University of Texas Medical Branch, Galveston, Texas

^d Division of Internal Medicine, Department of Endocrinology, University of Texas Medical Branch, Galveston, Texas

Corresponding author mail address:

James M Kasper

301 University Blvd, Route 0615

Galveston, TX 77555

- Mice exposed to HFD showed reduced performance on Morris Water Maze.
- Peripheral insulin resistance exacerbates HFD induced cognitive deficits.
- Mechanisms converge on decreased hippocampal signaling, which alters memory.

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Cognitive deficits associated with a high-fat diet and insulin resistance are potentiated by overexpression of Ecto-nucleotide pyrophosphatase phosphodiesterase-1.

JM Kasper^a, AJ Milton^a, AE Smith^a, F Laezza^b, G Taglialatela^c, JD Hommel^a, and N Abate^d

^a Center for Addiction Research, Department of Pharmacology and Toxicology, University of Texas Medical Branch, Galveston, Texas

^b Department of Pharmacology and Toxicology, University of Texas Medical Branch, Galveston, Texas

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