

Hriday Das, PhD
Graduate School of Biomedical Sciences
Institute for Healthy Aging
Pharmacology & Neuroscience
Email: Hriday.Das@unthsc.edu



Area of Expertise

Currently there are no clinically-effective treatments or prophylactic-preventative agents for Alzheimer's disease (AD). My current research involves identification of molecular mechanisms of neuronal cell death in AD and developing cost-effective, clinically-useful drug therapies for prevention of neuronal cell death and the treatment of AD. We are testing the effects of drugs that prevent neuronal cell death and improve memory in the genetically-engineered mouse model of AD. The identification of novel pathways that these potential drugs regulate for neuroprotection in these genetically-engineered mice, could provide new therapeutic avenues for AD. The anticipated outcomes of our mouse studies are likely to provide strong justification for the continued development and future clinical trials of these drugs for the treatment of AD.

Qualifications

Bachelor in Mathematics, University of Calcutta
MS in Chemistry, University of Calcutta
PhD, University of Nebraska

Recent Publications

HOXA5 Expression Is Elevated in Breast Cancer and Is Transcriptionally Regulated by Estradiol

Hussain, I., Deb, P., Chini, A., Obaid, M., Bhan, A., Ansari, K. I., Mishra, B. P., Bobzean, S. A., Udden, S. M. N., Alluri, P. G., Das, H. K., Brothers, R. M., Perrotti, L. I. & Mandal, S. S., 15 Dec 2020, In: *Frontiers in Genetics*. 11, 592436.

Inhibition of p-mTOR represses PS1 transcription by reducing p-JNK

Das, H. K. & Hontiveros, S. S., 1 Mar 2020, In: *Frontiers in Bioscience - Landmark*. 25, 7, p. 1297-1304 8 p.

Inhibition of p-mTOR represses transcription of PS1 and Notch 1-signaling

Das, H. K. & Hontiveros, S. S., 1 Mar 2020, In: *Frontiers in Bioscience - Landmark*. 25, 6, p. 1172-1183 12 p.

No difference in myosin kinetics and spatial distribution of the lever arm in the left and right ventricles of human hearts

Duggal, D., Requena, S., Nagwekar, J., Raut, S., Rich, R., Das, H., Patel, V., Gryczynski, I., Fudala, R., Gryczynski, Z., Blair, C., Campbell, K. S. & Borejdo, J., 13 Oct 2017, In: *Frontiers in Physiology*. 8, OCT, 732.

The role of presenilin-1 in the excitotoxicity of ethanol withdrawal

Jung, M. E., Metzger, D. B. & Das, H. K., Sep 2016, In: *Journal of Pharmacology and Experimental Therapeutics*. 358, 3, p. 516-526 11 p.

Effect of a myosin regulatory light chain mutation K104E on actin-myosin interactions

Duggal, D., Nagwekar, J., Rich, R., Huang, W., Midde, K., Fudala, R., Das, H., Gryczynski, I., Szczesna-Cordary, D. & Borejdo, J., 15 May 2015, In: *American Journal of Physiology - Heart and Circulatory Physiology*. 308, 10, p. H1248-H1257

Membrane Topology of Human Presenilin-1 in SK-N-SH Cells Determined by Fluorescence Correlation Spectroscopy and Fluorescent Energy Transfer

Midde, K., Rich, R., Saxena, A., Gryczynski, I., Borejdo, J. & Das, H. K., 2 Oct 2014, In: *Cell Biochemistry and Biophysics*. 70, 2, p. 923-932 10 p.

Repression of transcription of presenilin-1 inhibits γ -secretase independent ER Ca^{2+} leak that is impaired by FAD mutations

Das, H. K., Tchedre, K. & Mueller, B., Aug 2012, In: *Journal of Neurochemistry*. 122, 3, p. 487-500 14 p.

Intraperitoneal injection of JNK-specific inhibitor SP600125 inhibits the expression of presenilin-1 and Notch signaling in mouse brain without induction of apoptosis

Rahman, M., Zhang, Z., Mody, A. A., Su, D. M. & Das, H. K., 11 Apr 2012, In: Brain Research. 1448, p. 117-128 12 p.

Evidence for pre-and post-power stroke of cross-bridges of contracting skeletal myofibrils

Midde, K., Luchowski, R., Das, H. K., Fedorick, J., Dumka, V., Gryczynski, I., Gryczynski, Z. & Borejdo, J., 16 Feb 2011, In: Biophysical Journal. 100, 4, p. 1024-1033 10 p.

Sponsored Projects

A Novel Mouse Model to Study Alcoholic Premature Brain Aging

Jung, E. (. & Das, H.

Intramural Research(UNTHSC)

1/10/13 → 31/08/16

A Novel Mouse Model to Study Alcoholic Premature Brain Aging

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HEPATIC REGULATION OF THE HUMAN APO-B GENE

Das, H.

National Heart, Lung, and Blood Institute

1/09/93 → 30/09/03

HEPATIC REGULATION OF THE HUMAN APOB GENE

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1/09/93 → 30/09/03

Regulation of Human Presenilin-1

Das, H. & DAS, H. K.

National Institute on Aging

1/07/01 → 30/06/07

Regulation of Human Presenilin-1

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1/07/01 → 30/06/07