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

Area of Expertise

My laboratory focuses on the mechanisms underlying regulation of aging on neurogenesis after stroke. Specifically, I will explore the roles of molecular pathways in neurogenesis during aging and in the aged brain after stroke. I am also interested in whether damaged brain tissue in the chronic phase after stroke can be repaired through a stem cell-based tissue engineering approach. In addition, I investigate whether hippocampal neurogenesis contributes to the neuropathology and cognitive impairment of Alzheimer's disease and whether modulating this process could provide a mechanistic and therapeutic approach to the disease.

Qualifications

PhD in Molecular Biology, Beijing University

MD , Wenzhou Medical University

Recent Publications

A comprehensive summary of the knowledge on COVID-19 treatment
Peng, Y., Tao, H., Satyanarayanan, S. K., Jin, K. & Su, H., 1 Feb 2021, In: Aging and Disease. 12, 1, p. 155-191 37 p.

Interdisciplinary research in Alzheimer's disease and the roles international societies can play
Tan, S. Z. K., Zhao, R. C., Chakrabarti, S., Stambler, I., Jin, K. & Lim, L. W., 2021, In: Aging and Disease. 12, 1, p. 36-41 6 p.

Ablation of GSDMD Improves Outcome of Ischemic Stroke Through Blocking Canonical and Non-canonical Inflammasomes Dependent Pyroptosis in Microglia
Wang, K., Sun, Z., Ru, J., Wang, S., Huang, L., Ruan, L., Lin, X., Jin, K., Zhuge, Q. & Yang, S., 23 Nov 2020, In: Frontiers in Neurology. 11, 577927.

Of cross-immunity, herd immunity and country-specific plans: Experiences from COVID-19 in India
Chakrabarti, S. S., Kaur, U., Singh, A., Chakrabarti, S., Krishnatreya, M., Agrawal, B. K., Mittal, A., Singh, A., Khanna, R., Gambhir, I. S., Jin, K. & Chakrabarti, S., 19 Nov 2020, In: Aging and Disease. 11, 6, p. 1339-1344 6 p.

The Effect of IDO on Neural Progenitor Cell Survival Under Oxygen Glucose Deprivation
Wang, J., Wang, B., Jiang, L., Zhou, K., Yang, G. Y. & Jin, K., 30 Oct 2020, In: Frontiers in Cellular Neuroscience. 14, 581861.

Reply to Qin et al
Ruan, L., Zeng, Q., Feng, Y., Jin, K. & Zhuge, Q., 15 Oct 2020, In: Clinical Infectious Diseases. 71, 8, p. 2020 1 p.

New Measures for the Coronavirus Disease 2019 Response: A Lesson From the Wenzhou Experience
Ruan, L., Wen, M., Zeng, Q., Chen, C., Huang, S., Yang, S., Yang, J., Wang, J., Hu, Y., Ding, S., Zhang, Y., Zhang, H., Feng, Y., Jin, K. & Zhuge, Q., 28 Jul 2020, In: Clinical infectious diseases : an official publication of the Infectious Diseases Society of America. 71, 15, p. 866-869 4 p.

Peripheral circulating exosomal miRNAs potentially contribute to the regulation of molecular signaling networks in aging
Zhang, H. & Jin, K., 2 Mar 2020, In: International journal of molecular sciences. 21, 6, 1908.

COVID-19 in India: Are biological and environmental factors helping to stem the incidence and severity?
Chakrabarti, S. S., Kaur, U., Banerjee, A., Ganguly, U., Banerjee, T., Saha, S., Parashar, G., Prasad, S., Chakrabarti, S., Mittal, A., Agrawal, B. K., Rawal, R. K., Zhao, R. C., Gambhir, I. S., Khanna, R., Shetty, A. K., Jin, K. & Chakrabarti, S., 2020, In: Aging and Disease. 11, 3, p. 480-488 9 p.

Microglia exacerbate white matter injury via complement C3/C3aR pathway after hypoperfusion
Zhang, L. Y., Pan, J., Mamtilahun, M., Zhu, Y., Wang, L., Venkatesh, A., Shi, R., Tu, X., Jin, K., Wang, Y., Zhang, Z. & Yang, G. Y., 2020, In: Theranostics. 10, 1, p. 74-90 17 p.

Sponsored Projects

Aging and Neurogenesis
Jin, K.
NIA: National Institute on Aging
12/12/11 → 30/04/18

AMPK Signaling Regulate Neurogenesis in the Ischemic Aged Brain (For: Brian Wang)
Jin, K.
American Heart Association - SouthWest
1/07/15 → 30/06/17

AMPK Signaling Regulates Neurogenesis in The Ischemic Aged Brain (For: Brian Wang)
Jin, K.
Sigma Xi
1/05/15 → 31/05/16

Direct Reprogramming of Reactive Astrocytes after Stroke
Jin, K. & Uteshev, V.
William & Ella Owens Med Research Foun
1/03/18 → 28/02/19

Direct Reprogramming of Reactive Astrocytes in Ischemic Brain
Jin, K., Yang, S. & Uteshev, V.
Intramural Research(UNTHSC)
1/07/16 → 31/12/17

Effects of Aging on Blood Vessels in the Cerebellar Vermis
Jin, K., Forster, M. & Sumien, N.
NIA: National Institute on Aging
1/04/19 → 31/01/21

Impacts of the Systemic Milieu on Stroke Outcome
Jin, K.
NINDS: Neurological Disorders & Stroke
1/05/16 → 30/04/18

Magnetically Tissue Plasminogen Activator-Loaded Fe304 Nanorods Improve Thrombolysis Rates after Ischemic Stroke (Jiangnan Hu)
Jin, K.
Sigma Xi
1/01/18 → 31/12/18

Magnetic Nanorods and Thrombolysis after Ischemic Stoke
Jin, K.
American Heart Association - SouthWest
1/07/14 → 30/06/17

mTOR Signaling and Immunomodulation after Ischemic Stroke
Jin, K. & Su, D.
Intramural Research(UNTHSC)
1/10/13 → 1/03/16

Nanomotors for Thrombolytic Therapy after Stroke
Jin, K. & Yang, S.
NINDS: Neurological Disorders & Stroke
1/03/14 → 28/02/17

Neuroglobin: Cell Membrane and Neuroprotection
Yang, S., Liu, R. & Jin, K.
NINDS: Neurological Disorders & Stroke
1/07/14 → 31/05/19

Neuroglobin, Neuron Metabolism and Neuroprotection
Yang, S. & Jin, K.
Intramural Research(UNTHSC)
1/04/14 → 31/08/15

Post Stroke Cognitive Impairment: Mechanism and Therapy
Yang, S., Liu, R., Sumien, N. & Jin, K.
NINDS: Neurological Disorders & Stroke
1/02/19 → 31/01/24

The Effect of Young and Aged Serum Exosomes on Ischemic Stroke Outcome (For: Hongxia Zhang)
Jin, K.
American Heart Association
1/07/18 → 30/06/20

Therapeutic Benefits of Intranasal PNU-120596 in Cerebral Ischemia
Uteshev, V. & Jin, K.
Intramural Research(UNTHSC)
1/09/13 → 31/08/15