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Basic Life Research Scientist

Bioengineering

Bio

ACADEMIC APPOINTMENTS

- Basic Life Research Scientist, Bioengineering

Publications

PUBLICATIONS

- **A novel function of optineurin in axonal mitochondria transport for axon integrity and regeneration**
Hu, Y., Liu, D., Webber, H., Bian, F., Prakash, M., Li, L., You, I., Feng, X., Yang, H., Liu, L., Liu, P., Yang, M., Huang, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Optineurin-facilitated axonal mitochondria delivery promotes neuroprotection and axon regeneration.** *bioRxiv : the preprint server for biology*
Liu, D., Webber, H. C., Bian, F., Xu, Y., Prakash, M., Feng, X., Yang, M., Yang, H., You, I., Li, L., Liu, L., Liu, P., Huang, et al
2024
- **RGC-specific ATF4 and/or CHOP deletion rescues glaucomatous neurodegeneration and visual function.** *Molecular therapy. Nucleic acids*
Fang, F., Liu, P., Huang, H., Feng, X., Li, L., Sun, Y., Kaufman, R. J., Hu, Y.
2023; 33: 286-295
- **The UPR Maintains Proteostasis and the Viability and Function of Hippocampal Neurons in Adult Mice** *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*
Liu, P., Karim, M., Covelo, A., Yue, Y., Lee, M. K. K., Lin, W.
2023; 24 (14)
- **Differential effects of SARM1 inhibition in traumatic glaucoma and EAE optic neuropathies.** *Molecular therapy. Nucleic acids*
Liu, P., Chen, W., Jiang, H., Huang, H., Liu, L., Fang, F., Li, L., Feng, X., Liu, D., Dalal, R., Sun, Y., Jafar-Nejad, P., Ling, et al
2023; 32: 13-27
- **Neuroprotection of RGC-specific ATF4 Deletion in Mouse Glaucoma Model**
Li, L., Fang, F., Liu, P., Huang, H., Feng, X., Hu, Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Longitudinal in vivo Ca²⁺ imaging reveals dynamic activity changes of diseased retinal ganglion cells at the single-cell level.** *Proceedings of the National Academy of Sciences of the United States of America*
Li, L., Feng, X., Fang, F., Miller, D. A., Zhang, S., Zhuang, P., Huang, H., Liu, P., Liu, J., Sredar, N., Liu, L., Sun, Y., Duan, et al
2022; 119 (48): e2206829119
- **Maprotiline restores ER homeostasis and rescues neurodegeneration via Histamine Receptor H1 inhibition in retinal ganglion cells.** *Nature communications*
Chen, W., Liu, P., Liu, D., Huang, H., Feng, X., Fang, F., Li, L., Wu, J., Liu, L., Solow-Cordero, D. E., Hu, Y.
2022; 13 (1): 6796
- **Single-cell transcriptome analysis of regenerating RGCs reveals potent glaucoma neural repair genes.** *Neuron*
Li, L., Fang, F., Feng, X., Zhuang, P., Huang, H., Liu, P., Liu, L., Xu, A. Z., Qi, L. S., Cong, L., Hu, Y.
2022

- **Multiplex CRISPR genome regulation in the retina**
Guo, L., Bian, J., Davis, A. E., Liu, P., Kempton, H., Zhang, X., Chemparathy, A., Gu, B., Lin, X., Rane, D., Jamiolkowski, R. M., Hu, Y., Wang, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **NMNAT2 and NAD(+) are Downregulated in Glaucomatous RGCs and Overexpression of NMNAT2 Rescues Glaucomatous Neurodegeneration**
Liu, D., Fang, F., Zhuang, P., Feng, X., Liu, P., Huang, H., Li, L., Chen, W., Liu, L., Sun, Y., Jiang, H., Ye, J., Hu, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **Neuroprotection of SARM1 Inhibition in Traumatic and Glaucomatous but not in EAE Optic Neuropathies**
Liu, P., Huang, H., Chen, W., Fang, F., Li, L., Feng, X., Liu, L., Liu, D., Dalal, R., Sun, Y., Ling, K., Rigo, F., Hu, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **In Vivo Evaluation of Naive and Diseased RGC Activities at Single-Cell Level**
Li, L., Fang, F., Feng, X., Zhang, S., Miller, D., Zhuang, P., Huang, H., Liu, P., Liu, J., Sredar, N., Liu, L., Sun, Y., Duan, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **Multiplexed genome regulation in vivo with hyper-efficient Cas12a. *Nature cell biology***
Guo, L. Y., Bian, J., Davis, A. E., Liu, P., Kempton, H. R., Zhang, X., Chemparathy, A., Gu, B., Lin, X., Rane, D. A., Xu, X., Jamiolkowski, R. M., Hu, et al
2022
- **Multiplexed Genome Regulation In Vivo with Hyper-Efficient Cas12a**
Guo, L., Bian, J., Davis, A. E., Liu, P., Kempton, H. R., Zhang, X., Chemparathy, A., Gu, B., Lin, X., Rane, D. A., Jamiolkowski, R. M., Hu, Y., Wang, et al
CELL PRESS.2022: 103
- **NMNAT2 Is Downregulated in Glaucomatous RGCs and RGC-Specific Gene Therapy Rescues Neurodegeneration and Visual Function. *Molecular therapy : the journal of the American Society of Gene Therapy***
Fang, F., Zhuang, P., Feng, X., Liu, P., Liu, D., Huang, H., Li, L., Chen, W., Liu, L., Sun, Y., Jiang, H., Ye, J., Hu, et al
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- **Chronic mild and acute severe glaucomatous neurodegeneration derived from silicone oil-induced ocular hypertension. *Scientific reports***
Fang, F., Zhang, J., Zhuang, P., Liu, P., Li, L., Huang, H., Webber, H. C., Xu, Y., Liu, L., Dalal, R., Sun, Y., Hu, Y.
2021; 11 (1): 9052
- **Neuronal NMNAT2 Overexpression Does Not Achieve Significant Neuroprotection in Experimental Autoimmune Encephalomyelitis/Optic Neuritis. *Frontiers in cellular neuroscience***
Liu, P., Huang, H., Fang, F., Liu, L., Li, L., Feng, X., Chen, W., Dalal, R., Sun, Y., Hu, Y.
2021; 15: 754651