

# Partial Publication List for TailSuspSwimScan

June 2026  
Clever Sys Inc

- Hang Yao et al. ,Astrocyte-derived CCL5-mediated CCR5+ neutrophil infiltration drives depression pathogenesis. *Sci. Adv.*11,eadt6632(2025).DOI:10.1126/sciadv.adt6632
- Jia, Keke and Pan, Shuman and Wu, Wenyan and Sun, Yiming and Zhang, Qingyu, Ginsenoside Rg1 Exerts Antidepressant Effect by Regulating Hepatic Kynurenine Metabolism Through Promoting the Interaction between Hnf4  $\alpha$  and Pgc1  $\alpha$  . Available at SSRN: <https://ssrn.com/abstract=4650110> or <http://dx.doi.org/10.2139/ssrn.4650110>
- Oka N, Shimada K, Ishii A ...SARS-CoV-2 S1 protein causes brain inflammation by reducing intracerebral acetylcholine production. *iScience*, 2023; 26
- Li F, Jiang SY, Tian T, Li WJ, Xue Y, Du RH, Hu G, Lu M. Kir6.1/K-ATP channel in astrocytes is an essential negative modulator of astrocytic pyroptosis in mouse model of depression. *Theranostics*. 2022 Sep 11;12(15):6611-6625. doi: 10.7150/thno.77455. PMID: 36185602; PMCID: PMC9516231.
- Naomi Oka, Kazuya Shimada, Azusa Ishii, Nobuyuki Kobayashi, Kazuhiro Kondo. SARS-CoV-2 causes brain inflammation via impaired neuro-immune interactions. *bioRxiv* 2022.07.13.499991; doi: <https://doi.org/10.1101/2022.07.13.499991>
- Li S, Sun Y, Song M, Song Y, Fang Y, Zhang Q, Li X, Song N, Ding J, Lu M, Hu G. NLRP3/caspase-1/GSDMD-mediated pyroptosis exerts a crucial role in astrocyte pathological injury in mouse model of depression. *JCI Insight*. 2021 Dec 8;6(23):e146852. doi: 10.1172/jci.insight.146852. PMID: 34877938; PMCID: PMC8675200.
- Shanshan Li, Yiming Sun, Mengmeng Song, Yuting Song, Yinquan Fang, Qingyu Zhang, Xueting Li, Nanshan Song, Jianhua Ding, Ming Lu, Gang Hu. NLRP3/caspase-1/GSDMD – mediated pyroptosis exerts a crucial role in astrocyte pathological injury in mouse model of depression. *JCI Insight*. 2021;6(23):e146852. <https://doi.org/10.1172/jci.insight.146852>.
- Xiaojuan Han, Tianshu Xu, Qijun Fang, Huajun Zhang, Lijun Yue, Gang Hu, Lingyun Sun. Quercetin hinders microglial activation to alleviate neurotoxicity via the interplay between NLRP3 inflammasome and mitophagy, *Redox Biology*, Volume 44, 2021, 102010, ISSN 2213-2317, <https://doi.org/10.1016/j.redox.2021.102010>.
- Chen CC, Li CL, Chi TY, Chiu CC, Lin CY, et al. Application of the Chronic Unpredictable Mild Stress Mouse Model for the Establishment of Depressive Drug Screening Platform. *J Vet Med Animal Sci*. 2020; 3(1): 1023.
- Du RW, Bu WG. Metformin improves depressive-like symptoms in mice via inhibition of peripheral and central NF- $\kappa$ B-NLRP3 inflammation activation. *Exp Brain Res*. 2020 Nov;238(11):2549-

2556. doi: 10.1007/s00221-020-05911-x. Epub 2020 Sep 1. PMID: 32870322.

Jialei Zhu, Jing Tang; LncRNA Gm14205 induces astrocytic NLRP3 inflammasome activation via inhibiting oxytocin receptor in postpartum depression. *Biosci Rep* 28 August 2020; 40 (8): BSR20200672. doi: <https://doi.org/10.1042/BSR20200672>

Kobayashi N, Oka N, Takahashi M, Shimada K, Ishii A, Tatebayashi Y, Shigeta M, Yanagisawa H, Kondo K. Human Herpesvirus 6B Greatly Increases Risk of Depression by Activating Hypothalamic-Pituitary -Adrenal Axis during Latent Phase of Infection. *iScience*. 2020 Jun 26;23(6):101187. doi: 10.1016/j.isci.2020.101187. Epub 2020 May 21. PMID: 32534440; PMCID: PMC7298549.

Qi An, Chungen Li, Yaxing Chen, Yang Yang, Rao Song, LiangXue Zhou, Jiong Li, Aiping Tong, Youfu Luo. Scaffold hopping of agomelatine leads to enhanced antidepressant effects by modulation of gut microbiota and host immune responses, *Pharmacology Biochemistry and Behavior*, Volume 192, 2020, 172910, ISSN 0091-3057, <https://doi.org/10.1016/j.pbb.2020.172910>.

Qingyu Zhang, Yiming Sun, Zhang He, Ying Xu, Xueting Li, Jianhua Ding, Ming Lu, Gang Hu. Kynurenine regulates NLRP2 inflammasome in astrocytes and its implications in depression, *Brain, Behavior, and Immunity*, Volume 88, 2020, Pages 471-481, ISSN 0889-1591, <https://doi.org/10.1016/j.bbi.2020.04.016>.

Shu, X., Sun, Y., Sun, X. et al. The effect of fluoxetine on astrocyte autophagy flux and injured mitochondria clearance in a mouse model of depression. *Cell Death Dis* 10, 577 (2019). <https://doi.org/10.1038/s41419-019-1813-9>

Pan, Sj., Tan, Yl., Yao, Sw. et al. Fluoxetine induces lipid metabolism abnormalities by acting on the liver in patients and mice with depression. *Acta Pharmacol Sin* 39, 1463 – 1472 (2018). <https://doi.org/10.1038/aps.2017.207>

Braden GC, Rasmussen S, Monette S, Tolwani RJ. Effects of Breeding Configuration on Maternal and Weanling Behavior in Laboratory Mice. *J Am Assoc Lab Anim Sci*. 2017 Jul 1;56(4):369-376. PMID: 28724485; PMCID: PMC5517325.

Lehmann, M., Weigel, T., Elkhoulou, A. et al. Chronic social defeat reduces myelination in the mouse medial prefrontal cortex. *Sci Rep* 7, 46548 (2017). <https://doi.org/10.1038/srep46548>

Rachel B. Scheinert, Mitra H. Haeri, Michael L. Lehmann, Miles Herkenham. Therapeutic effects of stress-programmed lymphocytes transferred to chronically stressed mice. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, Volume 70, 2016, Pages 1-7, ISSN 0278-5846, <https://doi.org/10.1016/j.pnpbp.2016.04.010>.

Ren-Hong Du, Jun Tan, Xi-Yang Sun, Ming Lu, Jian-Hua Ding, Gang Hu, Fluoxetine Inhibits NLRP3 Inflammasome Activation: Implication in Depression, *International Journal of Neuropsychopharmacology*, Volume 19, Issue 9, September 2016, pyw037, <https://doi.org/10.1093/ijnp/pyw037>

Ren-Hong Du, Fang-Fang Wu, Ming Lu, Xiao-dong Shu, Jian-Hua Ding, Guangyu Wu, Gang Hu.

Uncoupling protein 2 modulation of the NLRP3 inflammasome in astrocytes and its implications in depression, *Redox Biology*, Volume 9, 2016, Pages 178-187, ISSN 2213-2317, <https://doi.org/10.1016/j.redox.2016.08.006>.

Scheinert RB, Haeri MH, Lehmann ML, Herkenham M. Therapeutic effects of stress-programmed lymphocytes transferred to chronically stressed mice. *Prog Neuropsychopharmacol Biol Psychiatry*. 2016 Oct 3;70:1-7. doi: 10.1016/j.pnpbp.2016.04.010. Epub 2016 Apr 21. PMID: 27109071; PMCID: PMC4925280.

Rebecca A. Brachman, Michael L. Lehmann, Dragan Maric, Miles Herkenham. Lymphocytes from Chronically Stressed Mice Confer Antidepressant-Like Effects to Naive Mice. *Journal of Neuroscience* 28 January 2015, 35 (4) 1530-1538; DOI: 10.1523/JNEUROSCI.2278-14.2015

Ming Lu, Jing-Zhe Yang, Fan Geng, Jian-Hua Ding, Gang Hu, Iptakalim confers an antidepressant effect in a chronic mild stress model of depression through regulating neuro-inflammation and neurogenesis, *International Journal of Neuropsychopharmacology*, Volume 17, Issue 9, September 2014, Pages 1501–1510, <https://doi.org/10.1017/S1461145714000285>

Malkesman, O., Austin, D., Tragon, T. et al. Targeting the BH3-interacting domain death agonist to develop mechanistically unique antidepressants. *Mol Psychiatry* 17, 770 – 780 (2012). <https://doi.org/10.1038/mp.2011.77>

Grzegorz R. Juszcak, Adam T. Sliwa, Patrycja Wolak, Agnieszka Tymosiak-Zielinska, Pawel Lisowski, Artur H. Swiergiel. The usage of video analysis system for detection of immobility in the tail suspension test in mice, *Pharmacology Biochemistry and Behavior*, Volume 85, Issue 2, 2006, Pages 332-338, ISSN 0091-3057, <https://doi.org/10.1016/j.pbb.2006.08.016>.