

IBR STAFF PUBLICATIONS—2021

with 2021 Journal Impact Factors (JIFs) (released June 2022), if available

1. **Adayev T, LaFauci G, Xu W, Dobkin C, Kasczak R, Brown WT, Goodman JH:** Development of a quantitative FMRP assay for mouse tissue applications. *Genes* 2021; 12:1516. [DOI: 10.3390/genes12101516] (2021 JIF: 4.141)
2. Allen EG, ..., **Nolin SL, Glicksman A, Tortora N**, ..., Sherman SL: Refining the risk for fragile X-associated primary ovarian insufficiency (FXPOI) by FMR1 CGG repeat size. *Genet Med* 2021; 23:1648–1655. [DOI: 10.1038/s41436-021-01177-y] (2021 JIF: 8.864)
3. Chang Q-X, Chen X, ..., **Zhong N**, Xia L-X, Huang Q-T, Zhong M: Trimethylamine N-oxide increases soluble fms-like tyrosine kinase-1 in human placenta via NADPH oxidase dependent ROS accumulation. *Placenta* 2021; 103:134–140. [DOI:10.1016/j.placenta.2020.10.021] (2021 JIF: 3.287)
4. **Chauhan V, Anis A, Chauhan A:** Effects of starvation on the levels of triglycerides, diacylglycerol, and activity of lipase in male and female *Drosophila melanogaster*. *J Lipids* 2021; 2021:5583114. [DOI: 10.1155/2021/5583114]. (2021 JIF: N/A)
5. **Chu C**, Bonney EA, **Zhong N:** Extracellular matrix in preterm premature rupture of fetal membranes. *Am J Biomed Sci & Res* 2021 - 13(1). AJBSR.MS.ID.001831. [DOI:10.34297/AJBSR.2021.13.001831] (2021 JIF: N/A)
6. **Chu C, Zhong N:** Impact of intrauterine exposure on fetal brain development and brain injury. *Biomed J Sci & Tech Res* 37(3)-2021. [DOI: 10.26717/BJSTR.2021.37.005994] (2021 JIF: N/A)
7. Claudio-Campos K, Stevens D, ..., **Lyon GJ**, ..., Mathews CA; Tourette Association of America International Consortium for Genetics (TAAICG) and the OCD Collaborative Genetics Association Study (OCGAS): Is persistent motor or vocal tic disorder a milder form of Tourette syndrome? *Mov Disord* 2021; 36:1899–1910. [DOI: 10.1002/mds.28593] (2021 JIF: 9.698)
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9. Fagan AM, ... **Krinsky-McHale S**, ... Shoji M, Lott IT; Alzheimer's Biomarker Consortium–Down Syndrome; Dominantly Inherited Alzheimer Network: Comparison of CSF biomarkers in Down syndrome and autosomal dominant Alzheimer's disease: a cross-sectional study. *Lancet Neurol* 2021; 20:615–626. [DOI: 10.1016/S1474-4422(21)00139-3] (2021 JIF: 59.935)

10. Fang Y, Wan C, Wen Y, Wu Z, Pan J, Zhong M, **Zhong N**: Autism-associated synaptic vesicle transcripts are differentially expressed in maternal plasma exosomes of physiopathologic pregnancies. *J Translational Med* 2021; 19: 154. [DOI: <https://doi.org/10.1186/s12967-021-02821-6>] (2021 JIF: N/A)
11. **Fyke W**, Alarcon JM, **Velinov M**, **Chadman KK**: Pharmacological inhibition of BKCa channels induces a specific social deficit in adult C57BL6/J mice. *Behav Neurosci* 2021; 135:462–468. [DOI: 10.1037/bne0000459] (2021 JIF: 2.154)
12. Fyke W, Alarcon JM, **Velinov M**, **Chadman KK**: Pharmacological inhibition of the primary endocannabinoid producing enzyme, DGL- α , induces autism spectrum disorder-like and co-morbid phenotypes in adult C57BL/J mice. *Autism Res* 2021;14:1375-1389. [DOI: 10.1002/aur.2520] (2021 JIF: 4.633)
13. Halvorsen M, Szatkiewicz J, Mudgal P, Yu D; Psychiatric Genomics Consortium TS/OCD Working Group (includes **Lyon G**), ..., Crowley JJ: Elevated common variant genetic risk for Tourette syndrome in a densely-affected pedigree. *Mol Psychiatry* 2021; 26:7522–7529. [DOI: 10.1038/s41380-021-01277-w]. (2021 JIF: 13.437)
14. **He XY**, **Wegiel J**, Kooy RF, **Brown WT**, **Yang SY**: *HSD17B10* gene-related disorders are associated with abnormalities of mitochondrial function, morphology, dynamics and clearance. *Ann Genet Genom* 2021; 1(1):1005. (2021 JIF: N/A)
15. Hom CL, Kirby KA, Ricks-Oddie J, Keator DB, **Krinsky-McHale SJ**, Pulsifer MB, Rosas HD, Lai F, Schupf N, Lott IT, Silverman W: Cognitive function during the prodromal stage of Alzheimer's disease in Down syndrome: comparing models. *Brain Sci* 2021;11:1220. [DOI: 10.3390/brainsci11091220] (2021 JIF: 3.333).
Published erratum: Hom CL, Kirby KA, Ricks-Oddie J, Keator DB, **Krinsky-McHale SJ**, Pulsifer MB, Rosas HD, Lai F, Schupf N, Lott IT, Silverman W. Correction: Hom et al. Cognitive function during the prodromal stage of Alzheimer's disease in Down syndrome: comparing models. *BrainSci*. 2021; 11:1220. *Brain Sci* 2022; 12:925. Erratum for: *Brain Sci* 2021; 11(9): PMID: 35884766; PMCID: PMC9313374.
16. Huang L, Chen Z, Li J, Chen Y, Yin K, Chen Y, Hu L, Zheng X, Zhou T, Zhu Y, Chen D, **Zhong N**: Iatrogenic factors contributed to the high rate of preterm birth in a community hospital. *Transl Pediatr* 2021; 10:2602–2613. [DOI: 10.21037/tp-21-458] (2021 JIF: 4.047)
17. **Iqbal K**: Thinking beyond the aducanumab controversy. *Ann Neurol* 2021; 90:1003–1004. [DOI: 10.1002/ana.26252] (2021 JIF: 11.274)
18. **Ju W**, Zhao X, **Zhong N**: Gene HOX-associated long noncoding RNAs in autism, attention deficit hyperactivity disorder, and non-syndromic intellectual disability. *Int J Autism & Related Disabil*: IJARD-147. 2021. [DOI: 10.29011/2642-3227.000047] (2021 JIF: N/A)

19. Kessler N, Akabayov SR, Moseri A, Cohen LS, ..., **Bolton D**, ..., Anglister J: Allovalency observed by transferred-NOE: interactions of sulfated tyrosine residues in the N-terminal segment of CCR5 with the CCL5 chemokine. *FEBS J* 2021; 288:1648–1663. [DOI: 10.1111/febs.15503] (2021 JIF: 5.622)
20. **Kida E, Walus M**, Albertini G, **Golabek AA**: Long-term voluntary running modifies the levels of proteins of the excitatory/inhibitory system and reduces reactive astrogliosis in the brain of Ts65Dn mouse model for Down syndrome. *Brain Res* 2021; 1766:147535. [DOI: 10.1016/j.brainres.2021.147535] (2021 JIF: 3.610)
21. **Kleyner R, Arif M, Marchi E**, ..., **Gavin M, Amble K, Velinov M, Lyon GJ**: Autosomal recessive *SLC30A9* mutations in a proband with a cerebro-renal syndrome and no parental consanguinity. *medRxiv* 2021.07.21.21260807. Preprint. [DOI: <https://doi.org/10.1101/2021.07.21.21260807>] (2021 JIF: N/A)
22. Kweon Y, **Bolton D, Garcia A, Flory M**, ..., **Marchi E**, ..., **Lyon G**: Naa12 compensates for Naa10 in mice in the amino-terminal acetylation pathway. *Elife* 2021;10:e65952. [DOI: 10.7554/eLife.65952] (2021 JIF: 8.713)
23. **Li L, Shi R, Jianlan Gu J, Tung YC, Zhou Y**, Zhou D, **Wu R, Chu D, Jin N, Deng K**, Xu J, **Gong C-X, Iqbal K, Liu F**: Alzheimer's disease brain contains tau fractions with differential prion-like activities. *Acta Neuropathol Commun* 2021; 9:28. [DOI:10.1186/s40478-021-01127-4] (2021 JIF: 7.578)
24. Li ZC, Fang BX, Yuan LX, Zheng K, Wu SX, **Zhong N**, Zeng XL: Analysis of studies in tinnitus-related gene research. *Noise Health* 2021; 23:95–107. [DOI: 10.4103/nah.nah_57_21] (2021 JIF: 1.293)
25. **London EB, Yoo JH**: From research to practice: toward the examination of combined interventions for autism spectrum disorders. *Brain Sci* 2021; 11:1073. [DOI:10.3390/brainsci11081073] (2021 JIF: 3.333)
26. Mhatre PG, Lee JH, **Pang D, Zigman WB**, Tycko B, **Krinsky-McHale SJ**, Yang Y, Silverman W, Schupf N: The association between sex and risk of Alzheimer's disease in adults with Down syndrome. *J Clin Med* 2021; 10:2966. [DOI: 10.3390/jcm10132966] (2021 JIF: 4.964)
27. Nakamura M, Oba T, **Salafia CM**, Morimoto T, Takita H, Tokunaka M, Goto M, Hamada S, Matsuoka R, Sekizawa A: Ultrasonographic study of umbilical cord twist direction during second trimester. *J Matern Fetal Neonatal Med* 2021 Aug 6; 1–7. [DOI: 10.1080/14767058.2020.1849098] (2021 JIF: 2.323)
28. Naseri N, Sharma M, **Velinov M**: Autosomal dominant neuronal ceroid lipofuscinosis—clinical features and molecular basis. *Clin Genet* 2021; 99:111–118. [DOI: 10.1111/cge.13829] (2021 JIF: 4.296)

29. **Niu J, Iqbal K, Liu F, Hu W:** Rats display sexual dimorphism in phosphorylation of brain tau with age. *J Alzheimers Dis* 2021; 82:855–869. [DOI: 10.3233/JAD-210341] (2021 JIF: 4.160)
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31. Nwakalor C, Said-Delgado S, Krinshpun S, **Velinov M:** De novo HRAS gene mutation associated with Costello syndrome identified by non-invasive cell-free fetal DNA screening. *Prenat Diagn* 2021; 41:11–14. [DOI: 10.1002/pd.5798] (2021 JIF: 3.242)
32. O'Connor T, Best M, ..., **Salafia CM,** ..., Serrano J, Barrett E; UPSIDE study: Cohort profile: Understanding Pregnancy Signals and Infant Development (UPSIDE): a pregnancy cohort study on prenatal exposure mechanisms for child health. *BMJ Open* 2021; 11(4):e044798. [DOI: 10.1136/bmjopen-2020-044798] (2021 JIF: 3.006)
33. **Pan D, Gu J-H, Zhang J, Hu Y, Liu F, Iqbal K, ..., Dai C-L, Gong C-X:** Thiamme2-G, a novel O-GlcNAcase inhibitor, reduces tau hyperphosphorylation and rescues cognitive impairment in mice. *J Alzheimer's Dis* 2021–; 81:273–286. [DOI:10.3233/JAD-201450] (2021 JIF: 4.160)
34. Parad RB, Breeze JL, Terrin N, Rogers LK, **Salafia CM,** Greenough A, Davis JM: Differences in clinical and laboratory biomarkers for short and long-term respiratory outcomes in preterm neonates. *Pediatr Pulmonol* 2021; 56:3847–3856. [DOI: 10.1002/ppul.25630] (2021 JIF: 4.090)
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38. Silverman W, **Krinsky-McHale SJ,** ..., Pulsifer M, Lott I, Schupf N; Alzheimer's Disease in Down Syndrome (ADDS) Consortium: Evaluation of the National Task Group-Early Detection Screen for Dementia: sensitivity to 'mild cognitive impairment' in adults with Down syndrome. *J Appl Res Intellect Disabil* 2021;34:905–915. [DOI: 10.1111/jar.12849] (2021 JIF: 2.162)

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42. **Wang P**, Jing Pan, ..., **Dong X, Ju W**, Yong Wang, **Zhong N**: Transcriptomics-determined chemokine-cytokine pathway presents a common pathogenic mechanism in pregnancy loss and spontaneous preterm birth. *Am J Reprod Immunol* 2021; 86(1):e13398. [DOI: 10.1111/aji.13398] (2021 JIF: 3.777)
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