

IBR STAFF PUBLICATIONS—2022

with 2021 Journal Impact Factors (JIFs)(released November 2022), if available
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2022 IBR STAFF PUBLICATIONS

1. Araldi GL, **Hwang YW**: Design, synthesis, and biological evaluation of polyphenol derivatives as DYRK1A inhibitors. The discovery of a potentially promising treatment for multiple sclerosis. *Bioorg Med Chem Lett* 2022; 64:128675. [DOI: 10.1016/j.bmcl.2022.128675] (2021 JIF: 2.940)
2. Baazaoui N, **Iqbal K**: Alzheimer's disease: challenges and a therapeutic opportunity to treat it with a neurotrophic compound. *Biomolecules* 2022; 12:1409. [DOI: 10.3390/biom12101409] (2021 JIF: 6.064)
3. Baazaoui N, **Iqbal K**: COVID-19 and neurodegenerative diseases: prion-like spread and long-term consequences. *J Alzheimers Dis* 2022; 88:399–416. [DOI: 10.3233/JAD-220105] (2021 JIF: 4.160)
4. Boggs AE, Schmitt LM, ..., **Adayev T, LaFauci G**, ..., Gross C, Erickson CA: Optimization, validation and initial clinical implications of a Luminex-based immunoassay for the quantification of fragile X protein from dried blood spots. *Sci Rep* 2022; 12:5617. [DOI: doi: 10.1038/s41598-022-09633-8] (2021 JIF: 4.996)
5. Carey ME, Rando J, Melnyk S, ..., **Salafia C**, ..., Newschaffer C, Lyall K: Examining associations between prenatal biomarkers of oxidative stress and ASD-related outcomes using quantile regression. *J Autism Dev Disord* 2022 Jun 9. Epub ahead of print. [DOI: 10.1007/s10803-022-05625-9] (2021 JIF: 4.345)
6. **Dai CL, Liu F, Iqbal K, Gong CX**: Gut microbiota and immunotherapy for Alzheimer's Disease. *Int J Mol Sci* 2022; 23:15230. [DOI: 10.3390/ijms232315230] (2021 JIF: 6.208)
7. Danis D, Jacobsen JOB, ..., **Lyon GJ**, ..., Lee C, Smedley D, Robinson PN. SvAnna: efficient and accurate pathogenicity prediction of coding and regulatory structural variants in long-read genome sequencing. *Genome Med* 2022; 14:44. [DOI: 10.1186/s13073-022-01046-6] (2021 JIF: 15.266)
8. Dufour BD, Albores-Gallo L, Luna-Muñoz J, ..., **London E**, Hagerman P, Martínez-Cerdeño V: Hispano-American Brain Bank on Neurodevelopmental Disorders: an initiative to promote brain banking, research, education, and outreach in the field of neurodevelopmental disorders. *Brain Pathol* 2022; 32:e13019. [DOI: 10.1111/bpa.13019] (2021 JIF: 7.611)

9. Fleming V, Hom CL, Clare ICH, Hurd-Thomas SL, **Krinsky-McHale S**, Handen B, Hartley SL: Cognitive outcome measures for tracking Alzheimer's disease in Down syndrome. *Int Rev Res Dev Disabil* 2022; 62:227–263. [https://doi.org/10.1016/bs.irrdd.2022.05.006] (2021 JIF: N/A)
10. **Gong CX, Dai CL, Liu F, Iqbal K**: Multi-targets: an unconventional drug development strategy for Alzheimer's disease. *Front Aging Neurosci* 2022; 14:837649. [DOI: doi.org/10.3389/fnagi.2022.837649] (2021 JIF: 5.702)
11. Guo L, Park J, Yi E, **Marchi E**, **Lyon GL**: KBG syndrome: videoconferencing and use of artificial intelligence driven facial phenotyping in 25 new patients. *Eur J Hum Genet* 2022; 30:1244–1254. [DOI: doi.org/10.1038/s41431-022-01171-1] (2021 JIF: 5.351)
12. Hartley SL, Fleming V, Piro-Gambetti B, ..., **Krinsky-McHale S**, ..., Schupf N; ABC-DS Group: Impact of the COVID 19 pandemic on daily life, mood, and behavior of adults with Down syndrome. *Disabil Health J* 2022; 17:101278. [DOI: 10.1016/j.dhjo.2022.101278] (2021 JIF: 4.615)
13. **He XY, Dobkin C, Brown WT, Yang SY**: 3-Hydroxyacyl-CoA and alcohol dehydrogenase activities of mitochondrial type 10 17 β -hydroxysteroid dehydrogenase in neurodegeneration study. *J Alzheimers Dis* 2022; 88:1487–1497. [DOI: 10.3233/JAD-220481] (2021 JIF: 4.160)
14. Hsieh TC, Bar-Haim A, ..., **Lyon GJ**, Spielmann M, Schaaf CP, ..., Krawitz PM: GestaltMatcher facilitates rare disease matching using facial phenotype descriptors. *Nat Genet* 2022; 54:349–357. [DOI: 10.1038/s41588-021-01010-x]. (2021 JIF: 41.307)
15. **Hu W, Dai CL, Niu J, Iqbal K**: Heightened tameness and accelerated handling-habituation in 3 \times Tg-AD mice on a B6;129 genetic background. *J Alzheimers Dis Rep* 2022; 6:245–255. [DOI: 10.3233/ADR-220007] (2021 JIF: N/A)
16. **Hu W, Liu F, Gong CX, Iqbal K**: Does proteopathic tau propagate trans-synaptically in the brain? *Mol Neurodegener* 2022; 17:21. [DOI: 10.1186/s13024-022-00527-x] (2021 JIF: 18.879)
17. **Hussein S, Ju W**, ..., **Flory M, Chu C**, ..., **Zhong N**: Reduced expression in preterm birth of sFLT-1 and PlGF with a high sFLT-1/PlGF ratio in extracellular vesicles suggests a potential biomarker. *Front Endocrinol (Lausanne)* 2022; 13:1024587. [DOI: 10.3389/fendo.2022.1024587] (2021 JIF: 6.055)
18. Jin N, ..., **Wegiel J, Wisniewski T, Gong CX, Iqbal K, Liu F**: Tau seeding activity in various regions of Down syndrome brain assessed by two novel assays. *Acta Neuropathol Commun* 2022; 10:132. [DOI: doi: 10.1186/s40478-022-01436-2] (2021 JIF: 15.887)

19. **Kleyner R, Arif M, Marchi E, Horowitz N, ..., Gavin M, Amble K, Velinov M, Lyon GJ:** Autosomal recessive *SLC30A9* variants in a proband with a cerebrorenal syndrome and no parental consanguinity. *Cold Spring Harb Mol Case Stud* 2022; 8(2):a006137. [DOI: 10.1101/mcs.a006137] (2021 JIF: 2.32)
20. **Krinsky-McHale SJ,** Hartley S, ..., Lott IT, Schupf N, Silverman W; Alzheimer's Biomarker Consortium—Down Syndrome (ABC-DS) Investigators: A modified Cued Recall Test for detecting prodromal AD in adults with Down syndrome. *Alzheimers Dement (Amst)* 2022; 14(1):e12361. [DOI: 10.1002/dad2.12361] (2021 JIF: 16.655)
21. **Krinsky-McHale SJ,** Silverman W: Cognitive profile of aging and dementia. In Head E, Lott IT (eds.), *The Neurobiology of Aging and Alzheimer's Disease in Down Syndrome*. 2022, Academic Press; pp. 289–305. [<https://doi.org/10.1016/B978-0-12-818845-3.00005-0>]
22. Lao P, Zimmerman ME, ..., **Krinsky-McHale S,** ..., Lott IT, Schupf N, Brickman AM: Obstructive sleep apnea, cerebrovascular disease, and amyloid in older adults with Down syndrome across the Alzheimer's continuum. *Sleep Adv* 2022; 3(1):zpac013. [DOI: 10.1093/sleepadvances/zpac013] (2021 JIF: N/A)
23. Lei L, Feng J, Wu G, ..., **Liu F,** Wang X, Li HL: HIF-1 α causes LCMT1/PP2A deficiency and mediates tau hyperphosphorylation and cognitive dysfunction during chronic hypoxia. *Int J Mol Sci* 2022; 23(24):16140. [DOI: 10.3390/ijms232416140] (2021 JIF: 6.208)
24. **Li L, Miao J, Chu D, Jin N, Tung YC, Dai CL, Hu W, Gong CX, Iqbal K, Liu F:** Tau antibody 77G7 targeting microtubule binding domain suppresses proteopathic tau to seed tau aggregation. *CNS Neurosci Ther* 2022; 28:2245–2259. [DOI: 10.1111/cns.13970] (2021 JIF: 7.035)
25. Ling DSF, Yang L, **Goodman JH:** Brivaracetam prevents the development of epileptiform activity when administered early after cortical neurotrauma in rats. *Epilepsia* 2022; 63:992–1002. [DOI: 10.1111/epi.17167]. (2021 JIF: 6.740)
26. **London E,** Jure R, Gaspar P, Puelles L, Kulesza RJ. Editorial: The role of the brainstem and cerebellum in autism and related neurodevelopmental disorders (DD). *Front Integr Neurosci* 2022; 16:957003. [DOI: 10.3389/fnint.2022.957003] (2021 JIF: 3.213)
27. Moni F, Petersen ME, ..., **Krinsky-McHale S,** ..., Schupf N, O'Bryant S, Brickman AM: Probing the proteome to explore potential correlates of increased Alzheimer's-related cerebrovascular disease in adults with Down syndrome. *Alzheimers Dement* 2022; 18:1744–1753. [DOI: 10.1002/alz.12627] (2021 JIF: 16.655)
28. **Nakamura M,** Oba T, **Salafia CM,** Morimoto T, ..., Matsuoka R, Sekizawa A: Ultrasonographic study of umbilical cord twist direction during second trimester. *J*

Matern Fetal Neonatal Med 2022; 35(22):4233–4239. [DOI: 10.1080/14767058.2020.1849098]. (2021 JIF: 2.3232.323)

29. Peng S, Gu JH, Dai CL, Iqbal K, Liu F, Gong CX: AKT/GSK-3 β signaling is altered through downregulation of mTOR during cerebral ischemia/reperfusion injury. *Mol Biol Rep* 2022; 49:3955–3964. [DOI: 10.1007/s11033-022-07247-x] (2021 JIF: 2.742)
30. Pinar H, Gordijn SJ, ..., **Salafia C**, ..., Dahlstrom J, Silver B, Heazell A: Pathologic assessment of the placenta: evidence compared with tradition. *Obstet Gynecol* 2022; 140:341–342. [DOI: 10.1097/AOG.0000000000004883] (2021 JIF: 7.623)
31. Qiao C, Menon R, ..., Kshetrapal P, Georgiou HM, Mesiano S, **Zhong N**: Preterm birth update in Australasia: a report of the international symposium of Preterm Birth International Collaborative-Australasia branch. *Front Pediatr* 2022; 10:903546. [DOI: 10.3389/fped.2022.903546] (2021 JIF: 3.418)
32. Qiao C, **Zhong N**: Placenta and Reproductive Medicine: covering research on perinatal health. *Placenta Reprod Med* 2022; 1:2. [DOI: 10.54844/prm.2022.0108] (2021 JIF: N/A; journal started in 2022)
33. Queder N, Phelan MJ, ..., **Krinsky-McHale S**, ..., Mapstone M, Keator DB; Alzheimer's Biomarkers Consortium: Joint-label fusion brain atlases for dementia research in Down syndrome. *Alzheimers Dement (Amst)* 2022; 14(1):e12324. [DOI: 10.1002/dad2.12324] (2021 JIF: N/A)
34. Samaddar S, Purkayastha S, Diallo S, Tantry SJ, ..., **Flory MJ**, Banerjee P: The G protein-coupled serotonin 1a receptor augments protein kinase C ϵ -mediated neurogenesis in neonatal mouse hippocampus-PKC ϵ -mediated signaling in the early hippocampus. *Int J Mol Sci* 2022; 23(4):1962. [DOI: 10.3390/ijms23041962] (2021 JIF: 6.208)
35. Silverman W, **Krinsky-McHale SJ**, **Zigman WB**, Schupf N; New York Aging Research Program: Adults with Down syndrome in randomized clinical trials targeting prevention of Alzheimer's disease. *Alzheimers Dement* 2022; 18:1736–1743. [DOI: 10.1002/alz.12520] (2021 JIF: 16.655)
36. Thurman AJ, Swinehart SS, ..., Bullard L, Marzan JCB, **Brown WT**, Abbeduto L: Daily living skills in adolescent and young adult males with fragile X syndrome. *Am J Intellect Dev Disabil* 2022; 127:64–83. [DOI: 10.1352/1944-7558-127.1.64] (2021 JIF: 2.297)
37. Torres EB, ..., **London E**, **Phan H**, **Kittler P**, **Gordon A**, ..., Sejnowski T: Sensing echoes: temporal misalignment as the earliest marker of neurodevelopmental derail. *bioRxiv* 2022; p. 2022.01.27.478048. [https://doi.org/10.1101/2022.01.27.478048] (2021 JIF: N/A)

38. Wang C, Yu G, Menon R, **Zhong N**, ..., Kan H, Zhang J: Acute and chronic maternal exposure to fine particulate matter and prelabor rupture of the fetal membranes: a nation-wide survey in China. *Environment International* 2022; 170:107561. [https://doi.org/10.1016/j.envint.2022.107561] (2021 JIF: 13.352)
39. **Wegiel J, Flory M, Kuchna I, Nowicki K, Wegiel J, Ma SY, Zhong N**, ..., Wisniewski T: Developmental deficits and staging of dynamics of age associated Alzheimer's disease neurodegeneration and neuronal loss in subjects with Down syndrome. *Acta Neuropathol Commun* 2022; 10:2. [DOI: 10.1186/s40478-021-01300-] (2021 JIF: 7.578)
40. Wu Q, Zhou D, Wu R, Shi R, ..., **Liu F**, Chu D: Excess folic acid supplementation before and during pregnancy and lactation activates β -catenin in the brain of male mouse offspring. *Brain Res Bull* 2022;178:133–143. [DOI: 10.1016/j.brainresbull.2021.11.008] (2021 JIF: 3.715)
41. Yin X, Li Y, Fan X, ...Wang X, **Liu F**, Qian W: SIRT1 deficiency increases O-GlcNAcylation of tau, mediating synaptic tauopathy. *Mol Psychiatry* 2022; 27:4323–4334. [DOI: 10.1038/s41380-022-01689-2] (2021 JIF: 13.44)
42. **Yoo JH, London EB**: Integration of psychopharmacology and behavior analysis for autism spectrum disorder. In Matson & Sturmey (eds.), *Handbook of Autism and Pervasive Developmental Disorder*. 2022; Springer. ISBN 978-3-030-88537-3.
43. Yubero D, Martorell L, Nunes T, **Lyon GJ**, Ortigoza-Escobar JD: Neurodevelopmental gene-related dystonia: a pediatric case with NAA15 variant. *Mov Disord* 2022; 37:2320–2321. [DOI: 10.1002/mds.29241] (2021 JIF: 9.698)
44. Zhang P, Haymar T, Al-Sayyed F, Dygulski S, ..., **Salafia C**, Baergen R: Placental pathology associated with maternal age and maternal obesity in singleton pregnancy. *J Matern Fetal Neonatal Med* 2022; 35:9517–9526. [DOI: 10.1080/14767058.2022.2044777] (2021 JIF: 2.323)
45. Zheng Y, Pan J, ..., **Ju W, Wegiel J**, Myatt L, ..., **Zhong N**: Characterization of placental and decidual cell development in early pregnancy loss by single-cell RNA sequencing. *Cell Biosci* 2022; 12:168. [DOI: 10.1186/s13578-022-00904-5] (2021 JIF: 9.584)
46. Zhong C, Shah R, Rando J, Park B, ..., **Salafia CM**, Lyall K: Placental morphology in association with autism-related traits in the EARLI study. *BMC Pregnancy Childbirth* 2022; 22:525. [DOI: 10.1186/s12884-022-04851-4] (2021 JIF: 3.105)
47. **Zhong N**, Qiao C: Placenta and Reproductive Medicine: a resource for maternal and fetal health. *Placenta Reprod Med* 2022; 1:1. [DOI: 10.54844/prm.2022.0107] (2021 JIF: N/A; journal started in 2022)

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