IBR STAFF PUBLICATIONS—2022

with 2021 Journal Impact Factors (JIFs)(released November 2022), if available (https://impactfactorforjournal.com/impact-factor-2021/)

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 17β-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×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-1α 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*

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29. **Peng S, Gu JH, Dai CL, Iqbal K, Liu F, Gong CX:** AKT/GSK-3β 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*)

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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 Cε-mediated neurogenesis in neonatal mouse hippocampus-PKCε-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)*

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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)*

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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*)

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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)*

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