2011 IBR STAFF PUBLICATIONS

1. **Adayev T, Wegiel J, Hwang YW**: Harmine is an ATP-competitive inhibitor for dual-specificity tyrosine phosphorylation-regulated kinase 1A (Dyrk1A). *Arch Biochem Biophys* 2011; 507:212–218. [PMID: 21185805]

2. **Arnaud L, Chen S, Liu F, Li B, Khatoon S, Grundke-Iqbal I, Iqbal K**: Mechanism of inhibition of PP2A activity and abnormal hyperphosphorylation of tau by I2(PP2A)/SET. *FEBS Lett* 2011; 585:2653–2659. [PMID: 21806989]

3. Azmitia EC, Singh JS, Hou XP, **Wegiel J**: Dystrophic serotonin axons in postmortem brains from young autism patients. *Anat Rec* (Hoboken) 2011; 294:1653–1662. [PMID: 21901837]

4. **Barua M, Jenkins EC, Chen W, Kuizon S, Pullarkat RK, Junaid MA**: Glyoxalase I polymorphism rs2736654 causing the Ala111Glu substitution modulates enzyme activity-implications for autism. *Autism Res* 2011; 4:262–270. [PMID: 21491613]

5. **Blanchard J, Bolognin S,** Chohan MO, **Rabe A, Iqbal K, Grundke-Iqbal** I: Rescue of synaptic failure and alleviation of learning and memory impairments in a trisomic mouse model of Down syndrome. *J Neuropathol Exp Neurol* 2011; 70:1070–1079. [PMID: 22082658]

6. **Bolognin S**, Messori L, Drago D, Gabbiani C, Cendron L, Zatta P: Aluminum, copper, iron and zinc differentially alter amyloid-Aβ(1-42) aggregation and toxicity. *Int J Biochem Cell Biol* 2011; 43:877–885. [PMID: 21376832]

7. **Chadman KK:** Fluoxetine but not risperidone increases sociability in the BTBR mouse model of autism. *Pharmacol Biochem Behav* 2011; 97:586–594. [PMID: 20863848]

8. **Chalbot S**, Zetterberg H, Blennow K, Fladby T, Andreasen N, **Grundke-Iqbal I, Iqbal K:** Blood-cerebrospinal fluid barrier permeability in Alzheimer's disease. *J Alzheimer's Dis* 2011; 25:505–515. [PMID: 21471645]

9. Chang M, Cooper JD, Davidson BL, van Diggelen OP, Elleder M, Goebel HH, **Golabek AA , Kida E**, Kohlschütter A, Lobel P, Mole SE, Schulz A, Sleat DE, Warburton M, **Wisniewski KE**: CLN2. In *The Neuronal Ceroid Lipofuscinoses (Batten Disease)*. 2nd ed. Mole SE, Williams RE, Goebel HH (eds.), New York: Oxford University Press, 2011; pp. 80–109.

10. **Chauhan A, Gu F, Essa MM, Wegiel J, Kaur K, Brown WT, Chauhan V**: Brain region-specific deficit in mitochondrial electron transport chain complexes in children with autism. *J Neurochem* 2011; 117:209–220. [PMID: 21250997]

11. Cheng D, Noble J, Tang MX, **Schupf N**, Mayeux R, Luchsinger JA: Type 2 diabetes and late-onset Alzheimer's disease. *Dement Geriatr Cogn Disord* 2011; 31:424–430. [PMID: 21757907]

12. Chohan MO, Li B, **Blanchard J**, Tung YC, **Heaney AT, Rabe A, Iqbal K, Grundke-Iqbal I**: Enhancement of dentate gyrus neurogenesis, dendritic and synaptic plasticity and memory by a neurotrophic peptide. *Neurobiol Aging* 2011; 32:1420–1434. [PMID: 19767127]

13. **Cohen IL:** *The PDD Behavior Inventory-Screening Version* (PDDBI-SV). Lutz, FL: Psychological Assessment Resources, Inc., 2011.

14. **Cohen IL**, Liu X, Lewis ME, Chudley A, Forster-Gibson C, **Gonzalez M, Jenkins EC, Brown WT,** Holden JJ: Autism severity is associated with child and maternal MAOA genotypes. *Clin Genet* 2011; 79:355–362. [PMID: 20573161]

15. **Cohen IL, Yoo JH**, Goodwin MS, Moscowitz L: Assessing challenging behaviors in autism spectrum disorders: prevalence, rating scales and autonomic indicators. In *International Handbook of Autism and Pervasive Developmental Disorders.* Autism and Child Psychopathology Series. Matson JL, Sturmey P (eds.), New York: Springer, 2011; pp. 247–270. (Autism and Child Psychopathology Series).[DOI: 10.1007/978-1-4419-8065-6_15]

16. **Devenny DA, Matthews A:** Regression: atypical loss of attained functioning in children and adults with Down syndrome. In *International Review of Research in Developmental Disabilities*; Vol. 41. Hodapp R (ed.), Amsterdam: Elsevier, 2011; pp. 233–264.

17. **Gavin M, Patti PJ, Andiloro NR:** Gastrointestinal Symptoms Survey for Children and Adults with Down Syndrome. *Down Syndrome Q* 2011; 13:43–48.

18. Gill JS, **Salafia CM,** Grebenkov D, Vvedensky DD: Modeling oxygen transport in human placental terminal villi. *J Theor Biol* 2011; 291:33–41. [PMID: 21959313]

19. **Golabek A**, Jarzabek K, Palminiello S, **Walus M, Rabe A**, Albertini G, **Kida E**: Brain plasticity and environmental enrichment in Ts65Dn mice, an animal model for Down syndrome (DS). In *Neurocognitive Rehabilitation of Down Syndrome*. Rondal J-A, Perera J, Spiker D (eds.), New York: Cambridge University Press, 2011; pp. 71–84.

20. **Gong C-X:** NF-κB in brain diseases. In *Advances in Neurobiology 1 / Neurochemical Mechanisms in Disease.* Blass J. (ed.), Springer Science+Business Media, LLC, 2011; pp. 293–317.

21. Gordon LB**, Brown WT**, Collins FS: Hutchinson-Gilford Progeria Syndrome. In *GeneReviews* [Internet]. Pagon RA, Bird TD, Dolan CR, et al. (eds.) Seattle (WA): University of Washington; 1993 [updated 2011 Jan 06], [18 pp.] Available from: http://www.ncbi.nlm.gov/books/NBK1121/ [PMID: 20301300]

22. **Guariglia SR, Jenkins EC Jr, Chadman KK, Wen GY**: Chlorination byproducts induce gender specific autistic-like behaviors in CD-1 mice. *Neurotoxicology* 2011; 32:545–553. [PMID: 21740927]

23. **He XY, Dobkin C, Yang SY:** Does the HSD17B10 gene escape from X-inactivation? *Eur J Hum Genet* 2011; 19:123–124; author reply 124. [PubMdPMID: 21081971]

24. **Herr-Israel E**, McCune L: Successive single-word utterances and use of conversational input: a pre-syntactic route to multiword utterances. *J Child Lang* 2011; 38:166–180. [PMID: 20003576]

25. **Iqbal K, Grundke-Iqbal I:** Opportunities and challenges in developing Alzheimer disease therapeutics. *Acta Neuropathol* 2011; 122:543–549. Review. [PMID: 21959585]

26. **Iqbal K, Wang X, Blanchard J, Grundke-Iqbal I:** A non-transgenic rat model of sporadic Alzheimer's disease. In *Animal Models for Neurodegenerative Disease*. Avila J, Hernandez F, Perez F, Lucas JL (eds.), Cambridge (United Kingdom): Royal Society of Chemistry, 2011; pp. 274–283. (RSC Drug Discovery Series, 6).

27. **Isaacs CE**: Antimicrobial lipids in milk. In *Lipids and Essential Oils as Antimicrobial Agents*. Thormar H (ed.), Chichester (United Kingdom): Wiley, 2011; pp. 81–97.

28. **Isaacs CE, Xu W, Merz G**, Hillier S, Rohan L, **Wen GY**: Digallate dimers of (-)-epigallocatechin gallate inactivate herpes simplex virus. *Antimicrob Agents Chemother* 2011; 55:5646–5653. [PMID: 21947401]

29. Jeong BH, Lee KH, Lee YJ, Yun J, Park YJ, Kim YH, Cho YS, Choi EK, **Carp RI**, Kim YS: Genetic polymorphism in exon 2 of cathepsin D is not associated with vascular dementia. *Acta Neurol Scand* 2011; 123:419–423. [PubM MID: 20597865]

30. Jepson B, Granpeesheh D, Tarbox J, Olive ML, Stott C, Braud S, **Yoo JH**, Wakefield A, Allen MS: Controlled evaluation of the effects of hyperbaric oxygen therapy on the behavior of 16 children with autism spectrum disorders. *J Autism Dev Disord* 2011; 41:575–588. [PMID: 20680427]

31. Ji L, **Chauhan V**, Flory MJ, Chauhan A: Brain region-specific decrease in the activity and expression of protein kinase A in the frontal cortex of regressive autism. *PLoS One* 2011; 6:e23751. [PMID: 21909354]

32. **Junaid MA, Kuizon S, Cardona J, Azher T, Murakami N, Pullarkat RK, Brown WT**: Folic acid supplementation dysregulates gene expression in lymphoblastoid cells—implications in nutrition. *Biochem Biophys Res Comm* 2011; 412: 688–692. [PMID: 21867686]

33. **Kida E, Walus M**, Jarząbek K, Palminiello S, Albertini G, **Rabe A, Hwang YW, Golabek AA:** Form of dual-specificity tyrosine-(Y)-phosphorylation-regulated kinase 1A nonphosphorylated at tyrosine 145 and 147 is enriched in the nuclei of astroglial cells, adult hippocampal progenitors, and some cholinergic axon terminals. *Neuroscience* 2011; 195:112–127. [PMID: 21878370]

34. Kim BS, Cho IS, Park SY, **Schuller–Levis GB**, Levis W, **Park E:** Taurine chloramine inhibits NO and TNF–alpha in zymosan plus interferon–gamma activated RAW 264.7 cells. *J Drugs Dermatol* 2011; 10:659–665. [PMID: 21637907]

35. **Kittler PM, Gardner JM, Lennon EM, Flory MJ, Mayes LC, Karmel BZ:** The development of selective attention and inhibition in NICU graduates during the preschool years. *Develop Neuropsychol* 2011; 36(8):1003–1017. [PMID: 22004021]

36. **Li X:** Phosphorylation, protein kinases and ADPKD. *Biochim Biophys Acta* 2011; 1812:1219–1224. [PMID: 21392577]

37. **Li X**, Iomini C, Hyink D, Wilson PD: PRKX critically regulates endothelial cell proliferation, migration, and vascular-like structure formation. *Dev Biol* 2011; 356:475–485. [PMID: 21684272]

38. Liu X, Malenfant P, Reesor C, Lee A, Hudson ML, Harvard C, QiaoY, Persico AM, **Cohen IL**, Chudley AE, Forster-Gibson C, Rajcan-Separovic E, Lewis ME, Holden JJ: 2p15-16.1 microdeletion syndrome: molecular characterization and association of the OTX1 and XPO1 genes with autism spectrum disorders. *Eur J Hum Genet* 2011; 19:1264–1270. [PMID: 21750575]

39. Liu X, Solehdin F, **Cohen IL, Gonzalez MG, Jenkins EC,** Lewis SM, Holden JJA. Population- and family-based studies associate the MTHFR gene with idiopathic autism in simplex families. *J Autism Dev Disord* 2011; 41:938–944. [PMID: 21069446]

40. **Liu Y, Liu F, Grundke-Iqbal I, Iqbal K, Gong CX:** Deficient brain insulin signaling pathway in Alzheimer's disease and diabetes. *J Pathol* 2011; 225(1):54–62. [PMID: 21598254]

41. **Malik M, Fenko MD, Sheikh AM, Wen G, Li X:** A novel approach for characterization of cathepsin D protease and its effect on tau and β-amyloid proteins. *Neurochem Res* 2011; 36:754–760. [PMID: 21267651]

42. **Malik M, Sheikh AM, Wen G,** Spivack W, **Brown WT, Li X**: Expression of inflammatory cytokines, Bcl2 and cathepsin D are altered in lymphoblasts of autistic subjects. *Immunobiology* 2011; 216:80–85. [PMID: 20399529]

43. **Malik M, Tauqeer Z, Sheikh AM, Wen G**, Nagori A, Yang K, **Brown WT, Li X:** NF-κB signaling in the brain of autistic subjects. *Mediators Inflamm* 2011; 2011:785265. [PMID: 22046080]

44. Mattsson N, et al. including **Chalbot S**, **Iqbal K**: The Alzheimer's Association external quality control program for cerebrospinal fluid biomarkers. *Alzheimers Dement* 2011; 7:386–395.e6. Erratum in: Alzheimers Dement 2011 Sep;7(5):556. [PMID: 21784349]

45. Mayeux R, **Schupf N:** Blood-based biomarkers for Alzheimer's disease: plasma Aβ40 and Aβ42, and genetic variants. *Neurobiol Aging* 2011; 32 Suppl 1:S10-9. Review. [PMID: 22078169]

46. **Miller DL, Potempska A, Wegiel J, Mehta PD:** High-affinity rabbit monoclonal antibodies specific for amyloid peptides amyloid-β40 and amyloid-β42. *J Alzheimers Dis* 2011; 23:293–305. [PMID: 21116049]

47. Muthaiyah B, Essa MM, **Chauhan V, Chauhan A**: Protective effects of walnut extract against amyloid beta peptide-induced cell death and oxidative stress in PC12 cells. *Neurochem Res* 2011; 36:2096–2103. [PMID: 21706234]

48. **Nolin SL, Glicksman A, Ding X,** Ersalesi N, **Brown WT**, Sherman SL, **Dobkin C:** Fragile X analysis of 1112 prenatal samples from 1991 to 2010. *Prenat Diagn* 2011; 31:925–931. [PMID: 21717484]

49. Papaleo F, Silverman JL, Aney J, Tian Q, Barkan CL, **Chadman KK**, Crawley JN: Working memory deficits, increased anxiety-like traits, and seizure susceptibility in BDNF overexpressing mice. *Learn Mem* 2011; 18:534–544. [PMID: 21791566]

50. Park JH, Kim BH, Park SJ, Jin JK, Jeon YC, **Wen GY**, Shin HY, **Carp RI**, Kim YS: Association of endothelial nitric oxide synthase and mitochondrial dysfunction in the hippocampus of scrapie-infected mice. *Hippocampus* 2011; 21:319–333. [PMID: 20082297]

51. Qian W, **Iqbal K, Grundke-Iqbal I, Gong CX, Liu F:** Splicing factor SC35 promotes tau expression through stabilization of its mRNA. *FEBS Lett* 2011; 585:875–880. [PMID 1333649]

52. Qian W, Liang H, **Shi J**, Jin N, **Grundke-Iqbal I, Iqbal K, Gong CX, Liu F:** Regulation of the alternative splicing of tau exon 10 by SC35 and Dyrk1A. *Nucleic Acids Res* 2011; 39:6161–6171]. [PMID 21470964]

53. Qian W, Yin X, Hu W, **Shi J**, Gu J, **Grundke-Iqbal I, Iqbal K, Gong CX, Liu F:** Activation of protein phosphatase 2B and hyperphosphorylation of Tau in Alzheimer's disease. *J Alzheimers Dis* 2011; 23:617–627. [PMID: 21157033]

54. Rockenstein E, Ubhi K, Doppler E, Novak P, Moessler H, Li B, **Blanchard J, Grundke-Iqbal I, Iqbal K**, Mante M, Adame A, Crews L, Masliah E: Regional comparison of the neurogenic effects of CNTF-derived peptides and cerebrolysin in AβPP transgenic mice. *J Alzheimers Dis* 2011; 27:743–752. [PMID: 21860085]

55. Seaver LH, **He XY**, Abe K, Cowan T, Enns GM, Sweetman L, Philipp M, Lee S, **Malik M, Yang SY:** A novel mutation in the HSD17B10 gene of a 10-year-old boy with refractory epilepsy, choreoathetosis and learning disability. *PLoS One* 2011; 6:e27348. [PMID: 22132097]

56. Scarmeas N, Luchsinger JA, Brickman AM, Cosentino S, **Schupf N**, Xin-Tang M, Gu Y, Stern Y: Physical activity and Alzheimer disease course. *Am J Geriatr Psychiatry* 2011; 19:471–481. [PMID: 20808142]

57. Shen C, Zhao XL, **Ju W**, Zou XB, Huo LR, Yan W, Zou JH, Yan GD, **Jenkins EC, Brown WT, Zhong N:** A proteomic investigation of B lymphocytes in an autistic family: A pilot study of exposure to natural rubber latex (NRL) may lead to autism. *J Mol Neurosci* 2011; 43:443–452. [PMID: 20957522]

58. **Shi J**, Qian W, Yin X, **Iqbal K, Grundke-Iqbal I**, Gu X, Ding F, **Gong CX, Liu F:** Cyclic AMP-dependent protein kinase regulates the alternative splicing of tax exon 10L A mechanism involved in tau pathology of Alzheimer disease. *J Biol Chem* 2011; 286:14639–14648. [PMID: 21367856]

59. **Tsiouris JA, Kim SY, Brown WT, Cohen IL**: Association of aggressive behaviours with psychiatric disorders, age, sex and degree of intellectual disability: a large-scale survey. *J Intellect Disabil Res* 2011; 55:636–649. [PMID: 21492292]

60. **Tuzikow JE, Holburn S**: Identifying fad therapies for autism spectrum disorders and promoting effective treatment. In *International Handbook of Autism and Pervasive Developmental Disorders.* Matson JL, Sturmey P (eds.), New York: Springer, 2011; pp. 307–319. (Autism and Child Psychopathology Series).

61. **Tuzikow JE, Holburn S:** Making every moment count: steer clear of fad treatments. *Autism Spectrum News* 2011; 3:18–38.

62. Wallace RA, **Dalton AJ**: What can we learn from study of Alzheimer's disease in patients with Down syndrome for early-onset Alzheimer's disease in the general population? *Alzheimers Res Ther* 2011; 3:13. [PMID: 21542885]

63. Wang P, **Ju W**, Wu D, Wang L, Yan M, Zou J, He B, **Jenkins EC, Brown WT, Zhong N**: A two-dimensional protein fragmentation-proteomic study of neuronal ceroid lipofuscinoses: identification and characterization of differentially expressed proteins. *J Chromatogr B Analyt Technol Biomed Life Sci* 2011; 879:304–316. [PMID: 21242110]

64. **Wegiel J, Gong CX, Hwang YW:** The role of DYRK1A in neurodegenerative diseases. *FEBS J* 2011; J278:236–245. [PMID: 21156028]

65. **Wegiel J, Kaczmarski W, Barua M, Kuchna I, Nowicki K, Wang KC, Wegiel J, Yang SM, Frackowiak J, Mazur-Kolecka B**, Silverman WP, Reisberg B, Monteiro I, de Leon M, **Wisniewski T, Dalton A, Lai F, Hwang YW, Adayev T, Liu F, Iqbal K, Grundke-Iqbal I, Gong CX**: Link between DYRK1A overexpression and several-fold enhancement of neurofibrillary degeneration with 3-repeat tau protein in Down syndrome. *J Neuropathol Exp Neurol* 2011; 70:36–50. [PMID: 21157379]

66. Wehrum MJ, Buhimschi IA, **Salafia C**, Thung S, Bahtiyar MO, Werner EF, Campbell KH, Laky C, Sfakianaki AK, Zhao G, Funai EF, Buhimschi CS: Accreta complicating complete

placenta previa is characterized by reduced systemic levels of vascular endothelial growth factor and by epithelial-to-mesenchymal transition of the invasive trophoblast. *Am J Obstet Gynecol* 2011; 204:411.e1–411.e11. [PMID: 21316642]

67. **Wei H, Malik M, Sheikh AM, Merz G, Brown WT, Li X:** Abnormal cell properties and down-regulated FAK-Src complex signaling in B lymphoblasts of autistic subjects. *Am J Pathol* 2011; 179:66–74. [PMID: 21703394]

68. **Wei H, Zou A, Malik M, Dobkin C, Brown T, Li X**: IL-6 is increased in the cerebellum of the autistic brain and alters neural cell adhesion, migration and synapse formation. *J Neuroinflammation* 2011; 8:52. [PMID: 21595886]

69. Weidner KL, **Goodman JH, Chadman KK,** McCloskey DP: Aging-induced seizure-related changes to the hippocampal mossy fiber pathway in forebrain specific BDNF overexpressing mice. *Aging Dis* 2011; 2:308–317. [PMID: 22396883].

70. Yachelevich N, Gittler JK, Klugman S, Feldman B, Martin J, Brooks SS, **Dobkin C, Nolin SL:** Terminal deletions of the long arm of chromosome X that include the FMR1 gene in female patients: a case series. *Am J Med Genet Part A* 2011; 155:870–874. [PMID: 21595002]

71. Yang J, Ji Y, **Mehta P**, Bates KA, Sun Y, **Wisniewski T**: Blocking the apolipoprotein E/amyloid β interaction reduces fibrillar vascular amyloid deposition and cerebral microhemorrhages in TgSwDI mice. *J Alzheimers Dis* 2011; 24:269–285. [PMID: 21239853]

72. Yang J, Zaim Wadghiri Y, Hoang DM, Tsui W, Sun Y, Chung E, Li Y, Wang A, de Leon M, **Wisniewski T**: Detection of amyloid plaques targeted by USPIO-Aβ1-42 in Alzheimer's disease transgenic mice using magnetic resonance microimaging. *Neuroimage* 2011; 55: 1600–1609. [PMID: 21255656]

73. Yang K, **Sheikh AM, Malik M, Wen G,** Zou H, **Brown WT, Li X:** Upregulation of Ras/Raf/ERK1/2 signaling and ERK5 in the brain of autistic subjects. *Genes Brain Behav* 2011; 10:834–843. [PMID: 21848643]

74. Yang M, Scattoni ML, **Chadman KK**, Silverman JL, Crawley JN: Behavioral evaluation of genetic mouse models of autism. In *Autism Spectrum Disorders*. Amaral D, Dawson G, Geschwind D (eds.), New York: Oxford University Press, 2011; pp. 907–934.

75. **Yang SY, He XY, Miller D**. Hydroxysteroid (17β) dehydrogenase X in human health and disease. *Mol Cell Endocrinol* 2011; 343:1–6. Review. [PMID: 21708223]

76. Yun J, Jin HT, Lee YJ, Choi EK, **Carp RI**, Jeong BH, Kim YS: The first report of RPSA polymorphisms, also called 37/67 kDa LRP/LR gene, in sporadic Creutzfeldt-Jakob disease (CJD). *BMC Med Genet* 2011; 12:108. [PMID: 21838916]

77. Zhao Q, Lee JH, Pang D, Temkin A, Park N, Janicki SC, **Zigman WB**, Silverman W, Tycko B, **Schupf N:** Estrogen receptor-Beta variants are associated with increased risk of Alzheimer's disease in women with down syndrome. *Dement Geriatr Cogn Disord* 2011; 32:241–249. [PMID: 22156442]

78. **Zou H, Yu Y, Yang K, Sheikh AM,Malik M, Wen G, Chadman KK, Brown WT, Li X:** Association of up-regulated Ras/Raf/ERK1/2 signaling with autism. *Genes Brain Behav* 2011; 10:615–624. [PMID: 21595826]

Last updated 8-17-2012