Neurorepair

Wu and colleagues analyzed the placental pathology from a subset of the neonates in the NEATO trial who had reports available and correlated the placental pathology findings with outcomes.

A study of Jantzie and Robinson highlights the importance of placental pathology, and its potential to bring precision medicine to critically-ill neonates. Placental pathology will likely aid stratification of neonates for clinical trials and accelerate progress for neurorepair [1)].

Unclassified

2: Xu N, Fu Y, Wang S, Li S, Cai D. High level of D-dimer predicts ischemic stroke in patients with infective endocarditis. J Clin Lab Anal. 2020 Feb 3:e23206. doi: 10.1002/jcla.23206. [Epub ahead of print] PubMed PMID: 32017240.

3: Kasprzycka P, Archacka K, Kowalski K, Mierzejewski B, Zimowska M, Grabowska I, Piotrowski M, Rafałko M, Ryżko A, Irhashava A, Senderowski K, Gołąbek M, Stremińska W, Jańczyk-Ilach K, Koblowska M, Iwanicka-Nowicka R, Fogtman A, Janowski M, Walczak P, Ciemerych MA, Brzoska E. The factors present in regenerating muscles impact bone marrow-derived mesenchymal stromal/stem cell fusion with myoblasts. Stem Cell Res Ther. 2019 Nov 21;10(1):343. doi: 10.1186/s13287-019-1444-1. PubMed PMID: 31753006; PubMed Central PMCID: PMC6873517.

4: Salmeron KE, Maniskas ME, Edwards DN, Wong R, Rajkovic I, Trout A, Rahman AA, Hamilton S, Fraser JF, Pinteaux E, Bix GJ. Interleukin 1 alpha administration is neuroprotective and neuro-restorative following experimental ischemic stroke. J Neuroinflammation. 2019 Nov 14;16(1):222. doi: 10.1186/s12974-019-1599-9. PubMed PMID: 31727174; PubMed Central PMCID: PMC6857151.

5: Dong X, Li M, Li Q, Gao Y, Liu L, Chen X, Zhou Z, Rong H, Zhang J, Tian Y. Effects of Cryopreservation on Microparticles Concentration, Procoagulant Function, Size Distribution, and Morphology. Med Sci Monit. 2019 Sep 6;25:6675-6690. doi: 10.12659/MSM.917962. PubMed PMID: 31488807; PubMed Central PMCID: PMC6752109.

6: Yu P, Venkat P, Chopp M, Zacharek A, Shen Y, Liang L, Landschoot-Ward J, Liu Z, Jiang R, Chen J. Deficiency of tPA Exacerbates White Matter Damage, Neuroinflammation, Glymphatic Dysfunction and Cognitive Dysfunction in Aging Mice. Aging Dis. 2019 Aug 1;10(4):770-783. doi: 10.14336/AD.2018.0816. eCollection 2019 Aug. PubMed PMID: 31440383; PubMed Central PMCID: PMC6675536.

7: Zhou Y, Li L, Li S, Li S, Zhao M, Zhou Q, Gong X, Yang J, Chang J. Autoregenerative redox nanoparticles as an antioxidant and glycation inhibitor for palliation of diabetic cataracts. Nanoscale. 2019 Jul 11;11(27):13126-13138. doi: 10.1039/c9nr02350j. PubMed PMID: 31268450.

8: Jantzie L, El Demerdash N, Newville JC, Robinson S. Time to reconsider extended erythropoietin treatment for infantile traumatic brain injury? Exp Neurol. 2019 Aug;318:205-215. doi: 10.1016/j.expneurol.2019.05.004. Epub 2019 May 10. Review. PubMed PMID: 31082389.

9: Li M, Wang W, Zhang L, Xin W, Zhao Y, Huan L, Yu J, Zhang H, Zhang J, Yang S, Liang D, Yang W, Yang X. Genetic polymorphisms in Sox17 associated with intracranial aneurysm in Chinese Han

people: a genotype-phenotype study. Neuropsychiatr Dis Treat. 2019 Apr 2;15:779-783. doi: 10.2147/NDT.S193478. eCollection 2019. Erratum in: Neuropsychiatr Dis Treat. 2019 Aug 12;15:2291. PubMed PMID: 31040677; PubMed Central PMCID: PMC6452799.

10: Li Q, Gao Y, Xin W, Zhou Z, Rong H, Qin Y, Li K, Zhou Y, Wang J, Xiong J, Dong X, Yang M, Liu Y, Shen J, Wang G, Song A, Zhang J. Meta-Analysis of Prognosis of Different Treatments for Symptomatic Moyamoya Disease. World Neurosurg. 2019 Jul;127:354-361. doi: 10.1016/j.wneu.2019.04.062. Epub 2019 Apr 14. Review. PubMed PMID: 30995556.

11: Srivastava RK, Jablonska A, Chu C, Gregg L, Bulte JWM, Koehler RC, Walczak P, Janowski M. Biodistribution of Glial Progenitors in a Three Dimensional-Printed Model of the Piglet Cerebral Ventricular System. Stem Cells Dev. 2019 Apr 15;28(8):515-527. doi: 10.1089/scd.2018.0172. Epub 2019 Mar 28. PubMed PMID: 30760110; PubMed Central PMCID: PMC6482920.

12: Majchrzak M, Drela K, Andrzejewska A, Rogujski P, Figurska S, Fiedorowicz M, Walczak P, Janowski M, Lukomska B, Stanaszek L. SOD1/Rag2 Mice with Low Copy Number of SOD1 Gene as a New Long-Living Immunodeficient Model of ALS. Sci Rep. 2019 Jan 28;9(1):799. doi: 10.1038/s41598-018-37235-w. PubMed PMID: 30692571; PubMed Central PMCID: PMC6349855.

13: Golubczyk D, Malysz-Cymborska I, Kalkowski L, Janowski M, Coates JR, Wojtkiewicz J, Maksymowicz W, Walczak P. The Role of Glia in Canine Degenerative Myelopathy: Relevance to Human Amyotrophic Lateral Sclerosis. Mol Neurobiol. 2019 Aug;56(8):5740-5748. doi: 10.1007/s12035-019-1488-3. Epub 2019 Jan 23. PubMed PMID: 30674036; PubMed Central PMCID: PMC6614142.

14: Théry C, Witwer KW, Aikawa E, Alcaraz MJ, Anderson JD, Andriantsitohaina R, Antoniou A, Arab T, Archer F, Atkin-Smith GK, Ayre DC, Bach JM, Bachurski D, Baharvand H, Balaj L, Baldacchino S, Bauer NN, Baxter AA, Bebawy M, Beckham C, Bedina Zavec A, Benmoussa A, Berardi AC, Bergese P, Bielska E, Blenkiron C, Bobis-Wozowicz S, Boilard E, Boireau W, Bongiovanni A, Borràs FE, Bosch S, Boulanger CM, Breakefield X, Breglio AM, Brennan MÁ, Brigstock DR, Brisson A, Broekman ML, Bromberg JF, Bryl-Górecka P, Buch S, Buck AH, Burger D, Busatto S, Buschmann D, Bussolati B, Buzás EI, Byrd JB, Camussi G, Carter DR, Caruso S, Chamley LW, Chang YT, Chen C, Chen S, Cheng L, Chin AR, Clayton A, Clerici SP, Cocks A, Cocucci E, Coffey RJ, Cordeiro-da-Silva A, Couch Y, Coumans FA, Coyle B, Crescitelli R, Criado MF, D'Souza-Schorey C, Das S, Datta Chaudhuri A, de Candia P, De Santana EF, De Wever O, Del Portillo HA, Demaret T, Deville S, Devitt A, Dhondt B, Di Vizio D, Dieterich LC, Dolo V, Dominguez Rubio AP, Dominici M, Dourado MR, Driedonks TA, Duarte FV, Duncan HM, Eichenberger RM, Ekström K, El Andaloussi S, Elie-Caille C, Erdbrügger U, Falcón-Pérez JM, Fatima F, Fish JE, Flores-Bellver M, Försönits A, Frelet-Barrand A, Fricke F, Fuhrmann G, Gabrielsson S, Gámez-Valero A, Gardiner C, Gärtner K, Gaudin R, Gho YS, Giebel B, Gilbert C, Gimona M, Giusti I, Goberdhan DC, Görgens A, Gorski SM, Greening DW, Gross JC, Gualerzi A, Gupta GN, Gustafson D, Handberg A, Haraszti RA, Harrison P, Hegyesi H, Hendrix A, Hill AF, Hochberg FH, Hoffmann KF, Holder B, Holthofer H, Hosseinkhani B, Hu G, Huang Y, Huber V, Hunt S, Ibrahim AG, Ikezu T, Inal JM, Isin M, Ivanova A, Jackson HK, Jacobsen S, Jay SM, Jayachandran M, Jenster G, Jiang L, Johnson SM, Jones JC, Jong A, Jovanovic-Talisman T, Jung S, Kalluri R, Kano SI, Kaur S, Kawamura Y, Keller ET, Khamari D, Khomyakova E, Khvorova A, Kierulf P, Kim KP, Kislinger T, Klingeborn M, Klinke DJ 2nd, Kornek M, Kosanović MM, Kovács ÁF, Krämer-Albers EM, Krasemann S, Krause M, Kurochkin IV, Kusuma GD, Kuypers S, Laitinen S, Langevin SM, Languino LR, Lannigan J, Lässer C, Laurent LC, Lavieu G, Lázaro-Ibáñez E, Le Lay S, Lee MS, Lee YXF, Lemos DS, Lenassi M, Leszczynska A, Li IT, Liao K, Libregts SF, Ligeti E, Lim R, Lim SK, Linē A, Linnemannstöns K, Llorente A, Lombard CA, Lorenowicz MJ, Lörincz ÁM, Lötvall J, Lovett J, Lowry MC, Loyer X, Lu Q, Lukomska B, Lunavat TR, Maas SL, Malhi H, Marcilla A, Mariani J, Mariscal J, Martens-Uzunova ES, Martin-Jaular L, Martinez MC, Martins VR, Mathieu M, Mathivanan S, Maugeri M, McGinnis LK, McVey MJ, Meckes DG Jr, Meehan KL, Mertens I, Minciacchi VR, Möller A, Møller Jørgensen M, Morales-Kastresana A, Morhayim J, Mullier F, Muraca M, Musante L,

Mussack V, Muth DC, Myburgh KH, Najrana T, Nawaz M, Nazarenko I, Nejsum P, Neri C, Neri T, Nieuwland R, Nimrichter L, Nolan JP, Nolte-'t Hoen EN, Noren Hooten N, O'Driscoll L, O'Grady T, O'Loghlen A, Ochiya T, Olivier M, Ortiz A, Ortiz LA, Osteikoetxea X, Østergaard O, Ostrowski M, Park J, Pegtel DM, Peinado H, Perut F, Pfaffl MW, Phinney DG, Pieters BC, Pink RC, Pisetsky DS, Pogge von Strandmann E, Polakovicova I, Poon IK, Powell BH, Prada I, Pulliam L, Quesenberry P, Radeghieri A, Raffai RL, Raimondo S, Rak J, Ramirez MI, Raposo G, Rayyan MS, Regev-Rudzki N, Ricklefs FL, Robbins PD, Roberts DD, Rodrigues SC, Rohde E, Rome S, Rouschop KM, Rughetti A, Russell AE, Saá P, Sahoo S, Salas-Huenuleo E, Sánchez C, Saugstad JA, Saul MJ, Schiffelers RM, Schneider R, Schøyen TH, Scott A, Shahaj E, Sharma S, Shatnyeva O, Shekari F, Shelke GV, Shetty AK, Shiba K, Siljander PR, Silva AM, Skowronek A, Snyder OL 2nd, Soares RP, Sódar BW, Soekmadji C, Sotillo J, Stahl PD, Stoorvogel W, Stott SL, Strasser EF, Swift S, Tahara H, Tewari M, Timms K, Tiwari S, Tixeira R, Tkach M, Toh WS, Tomasini R, Torrecilhas AC, Tosar JP, Toxavidis V, Urbanelli L, Vader P, van Balkom BW, van der Grein SG, Van Deun J, van Herwijnen MJ, Van Keuren-Jensen K, van Niel G, van Royen ME, van Wijnen AJ, Vasconcelos MH, Vechetti IJ Jr, Veit TD, Vella LJ, Velot É, Verweij FJ, Vestad B, Viñas JL, Visnovitz T, Vukman KV, Wahlgren J, Watson DC, Wauben MH, Weaver A, Webber JP, Weber V, Wehman AM, Weiss DJ, Welsh JA, Wendt S, Wheelock AM, Wiener Z, Witte L, Wolfram J, Xagorari A, Xander P, Xu J, Yan X, Yáñez-Mó M, Yin H, Yuana Y, Zappulli V, Zarubova J, Žėkas V, Zhang JY, Zhao Z, Zheng L, Zheutlin AR, Zickler AM, Zimmermann P, Zivkovic AM, Zocco D, Zuba-Surma EK. Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. J Extracell Vesicles. 2018 Nov 23;7(1):1535750. doi: 10.1080/20013078.2018.1535750. eCollection 2018. PubMed PMID: 30637094; PubMed Central PMCID: PMC6322352.

15: Kotela A, Wojdasiewicz P, Łęgosz P, Sarzyńska S, Drela K, Pulik Ł, Kaleta B, Kniotek M, Borysowski J, Poniatowski ŁA, Kotela I. Increased serum levels of progranulin (PGRN) in patients with haemophilic arthropathy. Clin Exp Pharmacol Physiol. 2018 Nov 29. doi: 10.1111/1440-1681.13054. [Epub ahead of print] PubMed PMID: 30488982.

16: Yan T, Chen Z, Chopp M, Venkat P, Zacharek A, Li W, Shen Y, Wu R, Li L, Landschoot-Ward J, Lu M, Hank KH, Zhang J, Chen J. Inflammatory responses mediate brain-heart interaction after ischemic stroke in adult mice. J Cereb Blood Flow Metab. 2018 Nov 22:271678×18813317. doi: 10.1177/0271678×18813317. [Epub ahead of print] PubMed PMID: 30465612.

17: Chu C, Liu G, Janowski M, Bulte JWM, Li S, Pearl M, Walczak P. Real-Time MRI Guidance for Reproducible Hyperosmolar Opening of the Blood-Brain Barrier in Mice. Front Neurol. 2018 Oct 26;9:921. doi: 10.3389/fneur.2018.00921. eCollection 2018. PubMed PMID: 30416485; PubMed Central PMCID: PMC6212512.

18: Malysz-Cymborska I, Golubczyk D, Kalkowski L, Burczyk A, Janowski M, Holak P, Olbrych K, Sanford J, Stachowiak K, Milewska K, Gorecki P, Adamiak Z, Maksymowicz W, Walczak P. MRI-guided intrathecal transplantation of hydrogel-embedded glial progenitors in large animals. Sci Rep. 2018 Nov 7;8(1):16490. doi: 10.1038/s41598-018-34723-x. PubMed PMID: 30405160; PubMed Central PMCID: PMC6220305.

19: Andrzejewska A, Nowakowski A, Grygorowicz T, Dabrowska S, Orzel J, Walczak P, Lukomska B, Janowski M. Single-cell, high-throughput analysis of cell docking to vessel wall. J Cereb Blood Flow Metab. 2019 Nov;39(11):2308-2320. doi: 10.1177/0271678×18805238. Epub 2018 Oct 26. PubMed PMID: 30362860; PubMed Central PMCID: PMC6827124.

20: Robinson S, Conteh FS, Oppong AY, Yellowhair TR, Newville JC, Demerdash NE, Shrock CL, Maxwell JR, Jett S, Northington FJ, Jantzie LL. Extended Combined Neonatal Treatment With Erythropoietin Plus Melatonin Prevents Posthemorrhagic Hydrocephalus of Prematurity in Rats. Front Cell Neurosci. 2018

Sep 25;12:322. doi: 10.3389/fncel.2018.00322. eCollection 2018. PubMed PMID: 30319361; PubMed Central PMCID: PMC6167494.

21: Lesniak WG, Chu C, Jablonska A, Du Y, Pomper MG, Walczak P, Janowski M. A Distinct Advantage to Intraarterial Delivery of (89)Zr-Bevacizumab in PET Imaging of Mice With and Without Osmotic Opening of the Blood-Brain Barrier. J Nucl Med. 2019 May;60(5):617-622. doi: 10.2967/jnumed.118.218792. Epub 2018 Oct 12. PubMed PMID: 30315146; PubMed Central PMCID: PMC6495238.

22: Kalkowski L, Malysz-Cymborska I, Golubczyk D, Janowski M, Holak P, Milewska K, Kedziorek D, Adamiak Z, Maksymowicz W, Walczak P. MRI-guided intracerebral convection-enhanced injection of gliotoxins to induce focal demyelination in swine. PLoS One. 2018 Oct 1;13(10):e0204650. doi: 10.1371/journal.pone.0204650. eCollection 2018. PubMed PMID: 30273376; PubMed Central PMCID: PMC6166947.

23: Yu P, Venkat P, Chopp M, Zacharek A, Shen Y, Ning R, Liang L, Li W, Zhang L, Landschoot-Ward J, Jiang R, Chen J. Role of microRNA-126 in vascular cognitive impairment in mice. J Cereb Blood Flow Metab. 2019 Dec;39(12):2497-2511. doi: 10.1177/0271678×18800593. Epub 2018 Sep 14. PubMed PMID: 30215264; PubMed Central PMCID: PMC6893975.

24: Jiang R, Zhao S, Wang R, Feng H, Zhang J, Li X, Mao Y, Yuan X, Fei Z, Zhao Y, Yu X, Poon WS, Zhu X, Liu N, Kang D, Sun T, Jiao B, Liu X, Yu R, Zhang J, Gao G, Hao J, Su N, Yin G, Zhu X, Lu Y, Wei J, Hu J, Hu R, Li J, Wang D, Wei H, Tian Y, Lei P, Dong JF, Zhang J. Safety and Efficacy of Atorvastatin for Chronic Subdural Hematoma in Chinese Patients: A Randomized ClinicalTrial. JAMA Neurol. 2018 Nov 1;75(11):1338-1346. doi: 10.1001/jamaneurol.2018.2030. PubMed PMID: 30073290; PubMed Central PMCID: PMC6248109.

25: Guzman R, Janowski M, Walczak P. Intra-Arterial Delivery of Cell Therapies for Stroke. Stroke. 2018 May;49(5):1075-1082. doi: 10.1161/STROKEAHA.117.018288. Epub 2018 Apr 18. Review. PubMed PMID: 29669876; PubMed Central PMCID: PMC6027638.

26: Srivastava RK, Bulte JWM, Walczak P, Janowski M. Migratory potential of transplanted glial progenitors as critical factor for successful translation of glia replacement therapy: The gap between mice and men. Glia. 2018 May;66(5):907-919. doi: 10.1002/glia.23275. Epub 2017 Dec 20. Review. PubMed PMID: 29266673; PubMed Central PMCID: PMC5851824.

27: Sajja VSSS, Jablonska A, Haughey N, Bulte JWM, Stevens RD, Long JB, Walczak P, Janowski M. Sphingolipids and microRNA Changes in Blood following Blast Traumatic Brain Injury: An Exploratory Study. J Neurotrauma. 2018 Jan 15;35(2):353-361. doi: 10.1089/neu.2017.5009. Epub 2017 Nov 17. PubMed PMID: 29020847.

28: Semenkow S, Li S, Kahlert UD, Raabe EH, Xu J, Arnold A, Janowski M, Oh BC, Brandacher G, Bulte JWM, Eberhart CG, Walczak P. An immunocompetent mouse model of human glioblastoma. Oncotarget. 2017 May 15;8(37):61072-61082. doi: 10.18632/oncotarget.17851. eCollection 2017 Sep 22. PubMed PMID: 28977847; PubMed Central PMCID: PMC5617407.

29: Su W, Gao C, Wang P, Huang J, Qian Y, Guo L, Zhang J, Jiang R. Correlation of Circulating T Lymphocytes and Intracranial Hypertension in Intracerebral Hemorrhage. World Neurosurg. 2017 Nov;107:389-395. doi: 10.1016/j.wneu.2017.07.179. Epub 2017 Aug 7. PubMed PMID: 28797978.

30: Yu P, Li S, Zhang Z, Wen X, Quan W, Tian Q, Gao C, Su W, Zhang J, Jiang R. Progesterone-mediated angiogenic activity of endothelial progenitor cell and angiogenesis in traumatic brain injury rats were antagonized by progesterone receptor antagonist. Cell Prolif. 2017 Oct;50(5). doi: 10.1111/cpr.12362.

Epub 2017 Jul 28. PubMed PMID: 28752929.

31: Nowakowski A, Andrzejewska A, Boltze J, Nitzsche F, Cui LL, Jolkkonen J, Walczak P, Lukomska B, Janowski M. Translation, but not transfection limits clinically relevant, exogenous mRNA based induction of alpha-4 integrin expression on human mesenchymal stem cells. Sci Rep. 2017 Apr 24;7(1):1103. doi: 10.1038/s41598-017-01304-3. PubMed PMID: 28439079; PubMed Central PMCID: PMC5430815.

32: Lyczek A, Arnold A, Zhang J, Campanelli JT, Janowski M, Bulte JW, Walczak P. Transplanted human glial-restricted progenitors can rescue the survival of dysmyelinated mice independent of the production of mature, compact myelin. Exp Neurol. 2017 May;291:74-86. doi: 10.1016/j.expneurol.2017.02.005. Epub 2017 Feb 2. PubMed PMID: 28163160; PubMed Central PMCID: PMC5397299.

33: Qin H, Janowski M, Pearl MS, Malysz-Cymborska I, Li S, Eberhart CG, Walczak P. Rabbit Model of Human Gliomas: Implications for Intra-Arterial Drug Delivery. PLoS One. 2017 Jan 19;12(1):e0169656. doi: 10.1371/journal.pone.0169656. eCollection 2017. PubMed PMID: 28103265; PubMed Central PMCID: PMC5245890.

34: Walczak P, Wojtkiewicz J, Nowakowski A, Habich A, Holak P, Xu J, Adamiak Z, Chehade M, Pearl MS, Gailloud P, Lukomska B, Maksymowicz W, Bulte JW, Janowski M. Real-time MRI for precise and predictable intra-arterial stem cell delivery to the central nervous system. J Cereb Blood Flow Metab. 2017 Jul;37(7):2346-2358. doi: 10.1177/0271678×16665853. Epub 2016 Jan 1. PubMed PMID: 27618834; PubMed Central PMCID: PMC5531335.

35: Ngen EJ, Bar-Shir A, Jablonska A, Liu G, Song X, Ansari R, Bulte JW, Janowski M, Pearl M, Walczak P, Gilad AA. Imaging the DNA Alkylator Melphalan by CEST MRI: An Advanced Approach to Theranostics. Mol Pharm. 2016 Sep 6;13(9):3043-53. doi: 10.1021/acs.molpharmaceut.6b00130. Epub 2016 Jul 26. PubMed PMID: 27398883.

36: Li P, Quan W, Zhou YY, Wang Y, Zhang HH, Liu S. Efficacy of memantine on neuropsychiatric symptoms associated with the severity of behavioral variant frontotemporal dementia: A six-month, open-label, self-controlled clinical trial. Exp Ther Med. 2016 Jul;12(1):492-498. Epub 2016 Apr 20. PubMed PMID: 27347084; PubMed Central PMCID: PMC4906973.

37: Song X, Walczak P, He X, Yang X, Pearl M, Bulte JWM, Pomper MG, McMahon MT, Janowski M. Salicylic acid analogues as chemical exchange saturation transfer MRI contrast agents for the assessment of brain perfusion territory and blood-brain barrier opening after intra-arterial infusion. J Cereb Blood Flow Metab. 2016 Jul;36(7):1186-94. doi: 10.1177/0271678×16637882. Epub 2016 Mar 15. PubMed PMID: 26980755; PubMed Central PMCID: PMC4929703.

38: Gokce EC, Kahveci R, Gokce A, Sargon MF, Kisa U, Aksoy N, Cemil B, Erdogan B. Curcumin Attenuates Inflammation, Oxidative Stress, and Ultrastructural Damage Induced by Spinal Cord Ischemia-Reperfusion Injury in Rats. J Stroke Cerebrovasc Dis. 2016 May;25(5):1196-1207. doi: 10.1016/j.jstrokecerebrovasdis.2016.01.008. Epub 2016 Feb 27. PubMed PMID: 26935117.

39: Janowski M, Walczak P, Pearl MS. Predicting and optimizing the territory of blood-brain barrier opening by superselective intra-arterial cerebral infusion under dynamic susceptibility contrast MRI guidance. J Cereb Blood Flow Metab. 2016 Mar;36(3):569-75. doi: 10.1177/0271678×15615875. Epub 2015 Nov 5. PubMed PMID: 26661231; PubMed Central PMCID: PMC4794102.

40: Andrzejewska A, Nowakowski A, Janowski M, Bulte JW, Gilad AA, Walczak P, Lukomska B. Pre- and postmortem imaging of transplanted cells. Int J Nanomedicine. 2015 Sep 2;10:5543-59. doi:

10.2147/IJN.S83557. eCollection 2015. Review. PubMed PMID: 26366076; PubMed Central PMCID: PMC4562754.

41: Lin YP, Jiang RC, Zhang JN. Stability of rat models of fluid percussion-induced traumatic brain injury: comparison of three different impact forces. Neural Regen Res. 2015 Jul;10(7):1088-94. doi: 10.4103/1673-5374.160100. PubMed PMID: 26330831; PubMed Central PMCID: PMC4541239.

42: Muhammad G, Jablonska A, Rose L, Walczak P, Janowski M. Effect of MRI tags: SPIO nanoparticles and 19F nanoemulsion on various populations of mouse mesenchymal stem cells. Acta Neurobiol Exp (Wars). 2015;75(2):144-59. PubMed PMID: 26232992; PubMed Central PMCID: PMC4889457.

43: Janowski M, Wagner DC, Boltze J. Stem Cell-Based Tissue Replacement After Stroke: Factual Necessity or Notorious Fiction? Stroke. 2015 Aug;46(8):2354-63. doi: 10.1161/STROKEAHA.114.007803. Epub 2015 Jun 23. Review. PubMed PMID: 26106118; PubMed Central PMCID: PMC4519410.

44: Xiao Y, Faucherre A, Pola-Morell L, Heddleston JM, Liu TL, Chew TL, Sato F, Sehara-Fujisawa A, Kawakami K, López-Schier H. High-resolution live imaging reveals axon-glia interactions during peripheral nerve injury and repair in zebrafish. Dis Model Mech. 2015 Jun;8(6):553-64. doi: 10.1242/dmm.018184. Epub 2015 Mar 26. PubMed PMID: 26035865; PubMed Central PMCID: PMC4457030.

45: Gornicka-Pawlak E, Janowski M, Jablonska A, Sypecka J, Domanska-Janik K. Complex assessment of distinct cognitive impairments following ouabain injection into the rat dorsoloateral striatum. Behav Brain Res. 2015 Aug 1;289:133-40. doi: 10.1016/j.bbr.2015.03.061. Epub 2015 Apr 3. PubMed PMID: 25845737.

46: Janowski M, Bulte JW, Handa JT, Rini D, Walczak P. Concise Review: Using Stem Cells to Prevent the Progression of Myopia-A Concept. Stem Cells. 2015 Jul;33(7):2104-13. doi: 10.1002/stem.1984. Epub 2015 May 12. Review. PubMed PMID: 25752937; PubMed Central PMCID: PMC4878684.

47: Shin SS, Grandhi R, Henchir J, Yan HQ, Badylak SF, Dixon CE. Neuroprotective effects of collagen matrix in rats after traumatic brain injury. Restor Neurol Neurosci. 2015;33(2):95-104. doi: 10.3233/RNN-140430. PubMed PMID: 25624423.

48: Struzyna LA, Katiyar K, Cullen DK. Living scaffolds for neuroregeneration. Curr Opin Solid State Mater Sci. 2014 Dec;18(6):308-318. doi: 10.1016/j.cossms.2014.07.004. Epub 2014 Sep 19. PubMed PMID: 28736499; PubMed Central PMCID: PMC5520662.

49: Janowski M, Walczak P, Kropiwnicki T, Jurkiewicz E, Domanska-Janik K, Bulte JW, Lukomska B, Roszkowski M. Long-term MRI cell tracking after intraventricular delivery in a patient with global cerebral ischemia and prospects for magnetic navigation of stem cells within the CSF. PLoS One. 2014 Jun 11;9(2):e97631. doi: 10.1371/journal.pone.0097631. eCollection 2014. PubMed PMID: 24919061; PubMed Central PMCID: PMC4053317.

50: Franke H, Parravicini C, Lecca D, Zanier ER, Heine C, Bremicker K, Fumagalli M, Rosa P, Longhi L, Stocchetti N, De Simoni MG, Weber M, Abbracchio MP. Changes of the GPR17 receptor, a new target for neurorepair, in neurons and glial cells in patients with traumatic brain injury. Purinergic Signal. 2013 Sep;9(3):451-62. doi: 10.1007/s11302-013-9366-3. Epub 2013 Jun 26. PubMed PMID: 23801362; PubMed Central PMCID: PMC3757149.

51: Blanco M, Castillo J. Stroke in 2012: Major advances in the treatment of stroke. Nat Rev Neurol. 2013 Feb;9(2):68-70. doi: 10.1038/nrneurol.2012.274. Epub 2013 Jan 8. Review. PubMed PMID:

23296344.

52: Jozwiak S, Habich A, Kotulska K, Sarnowska A, Kropiwnicki T, Janowski M, Jurkiewicz E, Lukomska B, Kmiec T, Walecki J, Roszkowski M, Litwin M, Oldak T, Boruczkowski D, Domanska-Janik K. Intracerebroventricular Transplantation of Cord Blood-Derived Neural Progenitors in a Child With Severe Global Brain Ischemic Injury. Cell Med. 2010 Nov 2;1(2):71-80. doi: 10.3727/215517910×536618. eCollection 2010. PubMed PMID: 26966631; PubMed Central PMCID: PMC4776166.

53: Staal JA, Dickson TC, Gasperini R, Liu Y, Foa L, Vickers JC. Initial calcium release from intracellular stores followed by calcium dysregulation is linked to secondary axotomy following transient axonal stretch injury. J Neurochem. 2010 Mar;112(5):1147-55. doi: 10.1111/j.1471-4159.2009.06531.x. Epub 2009 Dec 7. PubMed PMID: 19968758.

54: Staal JA, Dickson TC, Chung RS, Vickers JC. Disruption of the ubiquitin proteasome system following axonal stretch injury accelerates progression to secondary axotomy. J Neurotrauma. 2009 May;26(5):781-8. doi: 10.1089/neu.2008.0669. PubMed PMID: 19416018.

55: Chen L, Huang H. [Neurorestoratology: new concept and bridge from bench to bedside]. Zhongguo Xiu Fu Chong Jian Wai Ke Za Zhi. 2009 Mar;23(3):366-70. Review. Chinese. PubMed PMID: 19366156.

56: Andrews RJ. Neuroprotection at the nanolevel–Part I: Introduction to nanoneurosurgery. Ann N Y Acad Sci. 2007 Dec;1122:169-84. Review. PubMed PMID: 18077572.

57: Blizzard CA, Haas MA, Vickers JC, Dickson TC. Cellular dynamics underlying regeneration of damaged axons differs from initial axon development. Eur J Neurosci. 2007 Sep;26(5):1100-8. PubMed PMID: 17767489.

58: Staal JA, Dickson TC, Chung RS, Vickers JC. Cyclosporin-A treatment attenuates delayed cytoskeletal alterations and secondary axotomy following mild axonal stretch injury. Dev Neurobiol. 2007 Dec;67(14):1831-42. PubMed PMID: 17702000.

59: Dickson TC, Chung RS, McCormack GH, Staal JA, Vickers JC. Acute reactive and regenerative changes in mature cortical axons following injury. Neuroreport. 2007 Feb 12;18(3):283-8. PubMed PMID: 17314672.

60: Chung RS, Staal JA, McCormack GH, Dickson TC, Cozens MA, Chuckowree JA, Quilty MC, Vickers JC. Mild axonal stretch injury in vitro induces a progressive series of neurofilament alterations ultimately leading to delayed axotomy. J Neurotrauma. 2005 Oct;22(10):1081-91. PubMed PMID: 16238485.

61: Quilty MC, Gai WP, Pountney DL, West AK, Vickers JC. Localization of alpha-, beta-, and gamma-synuclein during neuronal development and alterations associated with the neuronal response to axonal trauma. Exp Neurol. 2003 Jul;182(1):195-207. PubMed PMID: 12821390.

62: Chung RS, Vickers JC, Chuah MI, Eckhardt BL, West AK. Metallothionein-III inhibits initial neurite formation in developing neurons as well as postinjury, regenerative neurite sprouting. Exp Neurol. 2002 Nov;178(1):1-12. PubMed PMID: 12460603.

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Jantzie L, Robinson S. Placenta and perinatal brain injury: the gateway to individualized therapeutics and precision neonatal medicine. Pediatr Res. 2020 Feb 14. doi: 10.1038/s41390-020-0807-8. [Epub ahead of print] PubMed PMID: 32059230.