

DAFTAR PUSTAKA

- Abdelfattah, N., Rajamanickam, S., Panneerdoss, S. et al. MiR-584-5p potentiates
Abdelfattah, N. *et al.* (2018) 'MiR-584-5p potentiates vincristine and
radiation response by inducing spindle defects and DNA damage in
medulloblastoma,' *Nature Communications*,
9(1). <https://doi.org/10.1038/s41467-018-06808-8>.
- Adams, T.E. *et al.* (2000) 'Structure and function of the type 1 insulin-like growth
factor receptor,' *Cellular and Molecular Life Sciences*, 57(7), pp. 1050–
1093. <https://doi.org/10.1007/pl00000744>.
- Agarwal, A., & Rastogi, A. (2018). Anthropometric measurements in Ponseti
treated clubfeet. *SICOT-J*, 4, 19.
- Akil, A. *et al.* (2021) 'Notch signaling in vascular endothelial cells, angiogenesis,
and tumor Progression: An update and Prospective,' *Frontiers in Cell and
Developmental Biology*, 9. <https://doi.org/10.3389/fcell.2021.642352>.
- Alberts, B. et al. (2015). *Molecular Biology of the Cell* (6th ed.). Garland Science.
- Alman B. A. (2015). The role of hedgehog signalling in skeletal health and disease.
Nature reviews. Rheumatology, 11(9), 552–560.
<https://doi.org/10.1038/nrrheum.2015.84>
- Alvarado, D.M. et al. (2011) 'Pitx1 haploinsufficiency causes clubfoot in humans
and a clubfoot-like phenotype in mice,' *Human Molecular Genetics*, 20(20),
pp. 3943–3952. <https://doi.org/10.1093/hmg/ddr313>.
- Alvarado, D.M. et al. (2012) 'Copy number analysis of 413 isolated talipes
equinovarus patients suggests role for transcriptional regulators of early
limb development,' *European Journal of Human Genetics*, 21(4), pp. 373–
380. <https://doi.org/10.1038/ejhg.2012.177>.
- Alvarado, D.M. et al. (2016) 'Deletions of 5'HOXC genes are associated with lower
extremity malformations, including clubfoot and vertical talus,' *Journal of
Medical Genetics*, 53(4), pp. 250–255. <https://doi.org/10.1136/jmedgenet-2015-103505>.
- Anand, A. and Sala, D. (2008) 'Clubfoot: Etiology and treatment', *Indian Journal
of Orthopaedics*, 42(1), p. 22. doi:10.4103/0019-5413.38576.
- Barik, S. *et al.* (2024) 'Barriers to the treatment of clubfoot in low- and middle-
income countries: A guide to improve compliance,' *Tropical
Doctor* [Preprint]. <https://doi.org/10.1177/00494755241284335>.
- Beltrán, M. and Herreros, A. G. d. (2016). Antisense non-coding rnas and regulation
of gene transcription. *Transcription*, 7(2), 39-43.

- Bladt, F. et al. (1995) 'Essential role for the c-met receptor in the migration of myogenic precursor cells into the limb bud,' *Nature*, 376(6543), pp. 768–771. <https://doi.org/10.1038/376768a0>
- Boopathy, G. T. K., & Hong, W. (2019). Role of Hippo Pathway-YAP/TAZ Signaling in Angiogenesis. *Frontiers in cell and developmental biology*, 7, 49. <https://doi.org/10.3389/fcell.2019.00049>
- Byrd, N., & Grabel, L. (2004). Hedgehog signaling in murine vasculogenesis and angiogenesis. *Trends in cardiovascular medicine*, 14(8), 308–313. <https://doi.org/10.1016/j.tcm.2004.09.003>
- Cady, R., Hennessey, T.A. and Schwend, R.M. (2022) 'Diagnosis and treatment of idiopathic congenital clubfoot', *Pediatrics*, 149(2). doi:10.1542/peds.2021-055555.
- Chand, T. (2019). Identification of bap1-associated micrnas and implications in cancer development. *International Journal of Cancer Science and Therapy*, 1-4. <https://doi.org/10.31487/j.ijcst.2019.01.01>
- Chang CH, Huang SC. (1997). Surgical treatment of clubfoot deformity in arthrogryposis multiplex congenita. *J Formos Med Assoc.* Jan;96(1):30-5. PMID: 9033179.
- Chapman C, Stott S, Viola Port R.V., Nicol R.O. (2000) Genetics of club foot in the Maori and Pacific people. *J. Med. Genet.* 37:680–683.
- Chen, X., Li, G., Zhong, G., Chen, J., Feng, L., Zhang, T., et al (2022). Long non-coding rna duxap8 acts as an oncogene in sinonasal squamous cell carcinoma through mir-584-5p/fndc3b pathway. *American Journal of Rhinology & Allergy*, 36(6), 708-718. <https://doi.org/10.1177/19458924221104919>
- Chevallier, A., Kieny, M. and Mauger, A. (1977) 'Limb-somite relationship: origin of the limb musculature,' *Development*, 41(1), pp. 245–258. <https://doi.org/10.1242/dev.41.1.245>.
- Chevillet, J. R., Lee, I., Briggs, H. A., He, Y., & Wang, K. (2014). Issues and prospects of microRNA-based biomarkers in blood and other body fluids. *Molecules (Basel, Switzerland)*, 19(5), 6080–6105. <https://doi.org/10.3390/molecules19056080>
- Costa, M.L. (2014) 'Cytoskeleton and adhesion in myogenesis', *ISRN Developmental Biology*, 2014, pp. 1–15. doi:10.1155/2014/713631.
- Craciunescu, C.N. et al. (2004) 'Folic acid deficiency during late gestation decreases progenitor cell proliferation and increases apoptosis in fetal mouse brain,' *Journal of Nutrition*, 134(1), pp. 162–166. <https://doi.org/10.1093/jn/134.1.162>.

- Crick, F. (1970). Central dogma of molecular biology. *Nature*, 227(5258), 561–563. <https://doi.org/10.1038/227561a0>
- Das, K. et al. (2016) 'Nanostring expression profiling identifies candidate biomarkers of RAD001 response in Metastatic gastric cancer', *ESMO Open*, 1(1). doi:10.1136/esmoopen-2015-000009.
- Dehghan, F. *et al.* (2013) 'The effect of relaxin on the musculoskeletal system,' *Scandinavian Journal of Medicine and Science in Sports*, 24(4). <https://doi.org/10.1111/sms.12149>.
- Di Mauro, C. *et al.* (2017) 'Hedgehog signalling pathway orchestrates angiogenesis in triple-negative breast cancers,' *British Journal of Cancer*, 116(11), pp. 1425–1435. <https://doi.org/10.1038/bjc.2017.116>.
- Dobbs MB, Corley CL, Morcuende JA, Ponseti IV. (2003). Late recurrence of clubfoot deformity: a 45-year followup. *Clin Orthop Relat Res*. Jun;(411):188-92. doi: 10.1097/01.blo.0000065837.77325.19. PMID: 12782875.
- Dobbs, M. B. and Gurnett, C. A. (2003). Genetics of clubfoot, Available at: [10.1097/BPB.0b013e328349927c](https://doi.org/10.1097/BPB.0b013e328349927c)
- Dodwell, E., Risoe, P., & Wright, J. (2015). Factors associated with increased risk of clubfoot: A Norwegian national cohort analysis. *Journal of Pediatric Orthopedics*, 35(8), e104-9.
- Eddinger, T. J., Schiebout, J. D., & Swartz, D. R. (2005). Smooth muscle adherens junctions associated proteins are stable at the cell periphery during relaxation and activation. *American journal of physiology. Cell physiology*, 289(6), C1379–C1387. <https://doi.org/10.1152/ajpcell.00193.2005>
- Endo, M. (2006) 'Calcium ion as a second messenger with special reference to Excitation-Contraction coupling,' *Journal of Pharmacological Sciences*, 100(5), pp. 519–524. <https://doi.org/10.1254/jphs.cpj06004x>.
- Ester, A.R. et al. (2009) 'Altered transmission of HOX and apoptotic SNPs identify a potential common pathway for clubfoot,' *American Journal of Medical Genetics Part A*, 149A(12), pp. 2745–2752. <https://doi.org/10.1002/ajmg.a.33130>.
- Fabian et al (2010). "Regulation of mRNA Translation and Stability by microRNAs" *Annual Review of Biochemistry* doi:10.1146/annurev-biochem-060308-103103.
- Farrell SA, Summers AM, Dallaire L, et al. (1999). Club foot, an adverse outcome of early amniocentesis: disruption or deformation?. *Journal of Medical Genetics* ;36:843-846.

- Fils-Aimé, N. et al. (2013) 'MicroRNA-584 and the Protein Phosphatase and Actin Regulator 1 (PHACTR1), a New Signaling Route through Which Transforming Growth Factor- β Mediates the Migration and Actin Dynamics of Breast Cancer Cells,' *Journal of Biological Chemistry*, 288(17), pp. 11807–11823. <https://doi.org/10.1074/jbc.m112.430934>.
- Fowlkes, J. L., Thrailkill, K. M., & Bunn, R. C. (2021). RASopathies: The musculoskeletal consequences and their etiology and pathogenesis. *Bone*, 152, 116060. <https://doi.org/10.1016/j.bone.2021.116060>
- Fu, Y. et al. (2024) 'Evaluation of maternal plasma miRNA profiling using NanoString: impact of normalization strategy on candidate selection', *Epigenetics*, 19(1). PMID: 39697629
- Fuchs, B., Birt, A., Moellhoff, N., Kuhlmann, C., Giunta, R. E., & Wiggenhauser, P. S. (2023). Adipose-Derived Stem Cells Improve Angiogenesis and Lymphangiogenesis in a Hypoxic Dermal Regeneration Model In Vitro. *Medicina (Kaunas, Lithuania)*, 59(4), 706. <https://doi.org/10.3390/medicina59040706>
- Ge, J., Zhu, J., Xia, B., Cao, H., Peng, Y., Li, X., et al (2018). Mir- 423- 5p inhibits myoblast proliferation and differentiation by targeting sufu. *Journal of Cellular Biochemistry*, 119(9), 7610-7620. <https://doi.org/10.1002/jcb.27103>
- Glass D. J. (2010). PI3 kinase regulation of skeletal muscle hypertrophy and atrophy. *Current topics in microbiology and immunology*, 346, 267–278. https://doi.org/10.1007/82_2010_78
- Goriainov, V., Judd, J., & Uglow, M. (2010). Does the Pirani score predict relapse in clubfoot? *Journal of Children's Orthopaedics*, 4(5), 439–444.
- Graham, Z. A., Gallagher, P. M., & Cardozo, C. P. (2015). Focal adhesion kinase and its role in skeletal muscle. *Journal of muscle research and cell motility*, 36(4-5), 305–315. <https://doi.org/10.1007/s10974-015-9415-3>
- Grimes, C.E. *et al.* (2016) 'Cost-effectiveness of club-foot treatment in low-income and middle-income countries by the Ponseti method,' *BMJ Global Health*, 1(1), p. e000023. <https://doi.org/10.1136/bmjgh-2015-000023>.
- Groot, M. P., Wagemaker, N., Ouborg, N. J., Verhoeven, K. J. F., & Vergeer, P. (2018). Epigenetic population differentiation in field- and common garden- grown *scabiosa columbaria* plants. *Ecology and Evolution*, 8(6), 3505-3517. <https://doi.org/10.1002/ece3.3931>
- Grzywa-Czuba, R. et al. (2024) 'Association between Expression of Insulin-like Growth Factor-1 (IGF-1), IGF-1 Receptor (IGF-1R), and Hypertension-Mediated Organ Damage (HMOD) Parameters in Leukocytes and Plasma of Children/Adolescents with Primary Hypertension,' *Journal of*

- Personalized Medicine, 14(3), p. 255.
<https://doi.org/10.3390/jpm14030255>.
- Gulino, A. *et al.* (2007) 'Hedgehog signaling pathway in neural development and disease,' *Psychoneuroendocrinology*, 32, pp. S52–S56. <https://doi.org/10.1016/j.psyneuen.2007.03.017>.
- Gundawar, C.S. *et al.* (2020) 'Prospective Study of Gross Motor Milestones in Children with Severe Idiopathic Clubfoot Treated by Ponseti Method,' *Indian Journal of Orthopaedics*, 55(1), pp. 183–187. <https://doi.org/10.1007/s43465-020-00214-3>.
- Guo, N. *et al.* (2024) 'PI3K/AKT signaling pathway: Molecular mechanisms and therapeutic potential in depression,' *Pharmacological Research*, 206, p. 107300. <https://doi.org/10.1016/j.phrs.2024.107300>.
- Guo, T., Zheng, C., Wang, Z., & Zheng, X. (2019). Mir-584-5p regulates migration and invasion in non-small cell lung cancer cell lines through regulation of mmp-14. *Molecular Medicine Reports*.
<https://doi.org/10.3892/mmr.2019.9813>
- Gurnett, C.A. *et al.* (2008) 'Asymmetric Lower-Limb Malformations in Individuals with Homeobox PITX1 Gene Mutation,' *The American Journal of Human Genetics*, 83(5), pp. 616–622. <https://doi.org/10.1016/j.ajhg.2008.10.004>.
- Hamad, I. *et al.* (2025) 'Plakoglobin does not participate in endothelial barrier stabilization mediated by cAMP,' *Scientific Reports*, 15(1). <https://doi.org/10.1038/s41598-025-93756-1>.
- Hester, T.W. *et al.* (2009) 'A hypothesis and model of reduced fetal movement as a common pathogenetic mechanism in Clubfoot', *Medical Hypotheses*, 73(6), pp. 986–988. doi:10.1016/j.mehy.2009.04.056.
- Heyn, H. *et al.* (2012) 'Distinct DNA methylomes of newborns and centenarians,' *Proceedings of the National Academy of Sciences*, 109(26), pp. 10522–10527. <https://doi.org/10.1073/pnas.1120658109>.
- Horwitz, R. and Webb, D. (2003) 'Cell migration,' *Current Biology*, 13(19), pp. R756–R759. <https://doi.org/10.1016/j.cub.2003.09.014>.
- Human Dendritic Cell Lab. (2022). NanoString Technology. Newcastle University, United Kingdom. Available :
<https://research.ncl.ac.uk/nanostring/nanostringtechnology/>
- Hwang, S.Y. *et al.* (2015) 'Folic acid promotes the myogenic differentiation of C2C12 murine myoblasts through the Akt signaling pathway,' *International Journal of Molecular Medicine*, 36(4), pp. 1073–1080. <https://doi.org/10.3892/ijmm.2015.2311>.

- Hwang, S. Y., Sung, B. and Kim, N. D. (2018) 'Roles of folate in skeletal muscle cell development and functions,' *Archives of Pharmacal Research*, 42(4), pp. 319–325. <https://doi.org/10.1007/s12272-018-1100-9>.
- Johnson A. N. (2024). Myotube Guidance: Shaping up the Musculoskeletal System. *Journal of developmental biology*, 12(3), 25. <https://doi.org/10.3390/jdb12030025>
- Jowett, C., Morcuende, J. A., & Ramachandran, M. (2011). Management of congenital talipes equinovarus using the ponseti method. *The Journal of Bone and Joint Surgery. British Volume*, 93-B(9), 1160-1164. <https://doi.org/10.1302/0301-620x.93b9.26947>
- Jung, A. M., Furlong, M., Goodrich, J. M., Cárdenas, A., Beitel, S. C., Littau, S. R., et al (2023). Associations between epigenetic age acceleration and microrna expression among u.s. firefighters. *Epigenetics Insights*, 16. <https://doi.org/10.1177/25168657231206301>
- Karar, J., and Maity, A. (2011). PI3K/AKT/mTOR Pathway in Angiogenesis. *Frontiers in molecular neuroscience*, 4, 51. <https://doi.org/10.3389/fnmol.2011.00051>
- Katoh K. (2024). Signal Transduction Mechanisms of Focal Adhesions: Src and FAK-Mediated Cell Response. *Frontiers in bioscience (Landmark edition)*, 29(11), 392. <https://doi.org/10.31083/j.fbl2911392>
- Keputusan Gubernur Daerah Istimewa Yogyakarta Nomor 477/KEP/2024 Tentang Penetapan Upah Minimum Provinsi Tahun 2025. diakses tanggal 1 Mei 2025 dari <https://jdih.jogjaprov.go.id/hukum/keputusan-gubernur-daerah-istimewa-yogyakarta-nomor-477kep2024-tentang-penetapan-upah-minimum-prov>
- Kerrisk, M. E., Cingolani, L. A., and Koleske, A. J. (2014). ECM receptors in neuronal structure, synaptic plasticity, and behavior. *Progress in brain research*, 214, 101–131. <https://doi.org/10.1016/B978-0-444-63486-3.00005-0>
- Kishimoto, S., Uno, M., & Nishida, E. (2018). Molecular mechanisms regulating lifespan and environmental stress responses. *Inflammation and Regeneration*, 38(1). <https://doi.org/10.1186/s41232-018-0080-y>
- Kim, M., and Costello, J. (2017). DNA methylation: an epigenetic mark of cellular memory. *Experimental & molecular medicine*, 49(4), e322. <https://doi.org/10.1038/emm.2017.10>
- Kim, J. Y. et al. (2017) 'HER2 status in breast cancer determined by NanoString nCounter system and comparison with qRT-PCR and IHC', *PLOS ONE*, 12(9), e0183761. PMC5620444

- Knopik, V. S., Maccani, M. A., Francazio, S., & McGeary, J. E. (2012). The epigenetics of maternal cigarette smoking during pregnancy and effects on child development. *Development and Psychopathology*, 24(4), 1377-1390. <https://doi.org/10.1017/s0954579412000776>
- Kobayashi, S., Cox, A. G., Harvey, K. F., and Hogan, B. M. (2023). Vasculature is getting Hip(po): Hippo signaling in vascular development and disease. *Developmental cell*, 58(23), 2627–2640. <https://doi.org/10.1016/j.devcel.2023.11.002>
- Lampugnani, M. G., and Dejana, E. (2007). Adherens junctions in endothelial cells regulate vessel maintenance and angiogenesis. *Thrombosis research*, 120 Suppl 2, S1–S6. [https://doi.org/10.1016/S0049-3848\(07\)70124-X](https://doi.org/10.1016/S0049-3848(07)70124-X)
- Lathia, J. D., Mattson, M. P., and Cheng, A. (2008). Notch: from neural development to neurological disorders. *Journal of neurochemistry*, 107(6), 1471–1481. <https://doi.org/10.1111/j.1471-4159.2008.05715.x>
- Lee, S. *et al.* (2023) 'miR-616-3p alleviates inflammatory response by targeting C-X-C motif chemokine ligand 5,' *Biochemical and Biophysical Research Communications*, 691, p. 149335. <https://doi.org/10.1016/j.bbrc.2023.149335>.
- Lee, K. *et al.* (2024) 'NanoString-based molecular diagnosis of salivary gland tumors using FFPE tissue: A prospective cohort study', *Modern Pathology*, 37, pp. 100–112. PMID: 39466450
- Li, H. *et al.* (2023) 'Increased Ca²⁺ signaling through CaV1.2 induces tendon hypertrophy with increased collagen fibrillogenesis and biomechanical properties,' *The FASEB Journal*, 37(7). <https://doi.org/10.1096/fj.202300607r>.
- Li, J. *et al.* (2019) 'Structural basis of the activation of type 1 insulin-like growth factor receptor,' *Nature Communications*, 10(1). <https://doi.org/10.1038/s41467-019-12564-0>.
- Li, S. and Muneoka, K. (1999) 'Cell migration and chick limb development: Chemotactic action of FGF-4 and the AER,' *Developmental Biology*, 211(2), pp. 335–347. <https://doi.org/10.1006/dbio.1999.9317>.
- Li, Y. *et al.* (2018) 'Genome-wide survey reveals dynamic effects of folate supplement on DNA methylation and gene expression during C2C12 differentiation,' *Physiological Genomics*, 50(3), pp. 158–168. <https://doi.org/10.1152/physiolgenomics.00094.2017>.
- Libby, J.R. *et al.* (2024) 'The role of extracellular matrix in angiogenesis: Beyond adhesion and structure,' *Biomaterials and Biosystems*, 15, p. 100097. <https://doi.org/10.1016/j.bbiosy.2024.100097>.

- Limpaphayom, N. and Sailohit, P. (2019). Factors related to early recurrence of idiopathic clubfoot post the ponseti method. *Malaysian Orthopaedic Journal*, 13(3), 28-33. <https://doi.org/10.5704/moj.1911.005>
- Liu, X., Chen, X., Yu, X., Tao, Y., Bode, A. M., Dong, Z., et al (2013). Regulation of micrnas by epigenetics and their interplay involved in cancer. *Journal of Experimental & Clinical Cancer Research*, 32(1). <https://doi.org/10.1186/1756-9966-32-96>
- Liu Y. et al. (2022). One-carbon metabolism regulates myogenic and neurogenic differentiation through histone methylation. *Cell Reports*, 38(13): 110489. <https://doi.org/10.1016/j.celrep.2022.110489>
- Liu, G. *et al.* (2023) 'Insights into the Notch signaling pathway in degenerative musculoskeletal disorders: Mechanisms and perspectives,' *Biomedicine & Pharmacotherapy*, 169, pp. 115884. <https://doi.org/10.1016/j.biopha.2023.115884>.
- Liu, X. *et al.* (2021) 'Involvement of noncoding RNA in blood-brain barrier integrity in central nervous system disease,' *Non-coding RNA Research*, 6(3), pp. 130–138. <https://doi.org/10.1016/j.ncrna.2021.06.003>.
- Liu, Y.-B. *et al.* (2016) 'Association between maternal age at conception and risk of idiopathic clubfoot,' *Acta Orthopaedica*, 87(3), pp. 291–295. <https://doi.org/10.3109/17453674.2016.1153359>.
- Lochmiller, C. *et al.* (1998) 'Genetic epidemiology study of idiopathic talipes equinovarus,' *American Journal of Medical Genetics*, 79(2), pp. 90–96. [https://doi.org/10.1002/\(sici\)1096-8628\(19980901\)79:2](https://doi.org/10.1002/(sici)1096-8628(19980901)79:2).
- Lu, Q. et al. (2022) 'MIR-584-5P inhibits osteosarcoma progression by targeting connective tissue growth factor,' *Cancer Biotherapy and Radiopharmaceuticals*, 38(9), pp. 632–640. <https://doi.org/10.1089/cbr.2021.0349>.
- Lu, W. et al. (2012) 'Studies of TBX4 and chromosome 17q23.1q23.2: An uncommon cause of nonsyndromic clubfoot,' *American Journal of Medical Genetics Part A*, 158A(7), pp. 1620–1627. <https://doi.org/10.1002/ajmg.a.35418>.
- Lu, W. *et al.* (2023) 'Hedgehog signaling regulates bone homeostasis through orchestrating osteoclast differentiation and osteoclast–osteoblast coupling,' *Cellular and Molecular Life Sciences*, 80(6). <https://doi.org/10.1007/s00018-023-04821-9>.
- Luo L. (2002). Actin cytoskeleton regulation in neuronal morphogenesis and structural plasticity. *Annual review of cell and developmental biology*, 18, 601–635. <https://doi.org/10.1146/annurev.cellbio.18.031802.150501>

- Meadows, K. N., Bryant, P., and Pumiglia, K. (2001). Vascular endothelial growth factor induction of the angiogenic phenotype requires Ras activation. *The Journal of biological chemistry*, 276(52), 49289–49298. <https://doi.org/10.1074/jbc.M108069200>
- Mehta, R., Gopinathan, N.R. and Rangasamy, K. (2021) 'Non-idiopathic clubfeet: A current concepts review', *Journal of Foot and Ankle Surgery (Asia Pacific)*, 8(3), pp. 110–117. doi:10.5005/jp-journals-10040-1170.
- Melchionna, R., Trono, P., Tocci, A., and Nisticò, P. (2021). Actin Cytoskeleton and Regulation of TGFβ Signaling: Exploring Their Links. *Biomolecules*, 11(2), 336. <https://doi.org/10.3390/biom11020336>
- Mi, W. *et al.* (2018) 'The ZZ-type zinc finger of ZZZ3 modulates the ATAC complex-mediated histone acetylation and gene activation,' *Nature Communications*, 9(1). <https://doi.org/10.1038/s41467-018-06247-5>.
- Miedzybrodzka, Z. (2003) 'Congenital talipes equinovarus (clubfoot): a disorder of the foot but not the hand,' *Journal of Anatomy*, 202(1), pp. 37–42. <https://doi.org/10.1046/j.1469-7580.2003.00147.x>.
- Mittal, R.L. (2018) *Clubfoot: A Comprehensive Approach (Past, Present, and Future)*. <https://www.amazon.com/Clubfoot-Comprehensive-Approach-Present-Future/dp/1138083739>.
- Monje, F.J. *et al.* (2011) 'Focal adhesion kinase regulates neuronal growth, synaptic plasticity and Hippocampus-Dependent spatial learning and memory,' *Neurosignals*, 20(1), pp. 1–14. <https://doi.org/10.1159/000330193>.
- Mosca, V.S. (2021) 'Clubfoot pathoanatomy—biomechanics of deformity correction: a narrative review,' *Annals of Translational Medicine*, 9(13), p. 1096. <https://doi.org/10.21037/atm-20-7491>.
- Mohsenh, W. A., Alqarni, M. M., Alshehri, A. K., Asiri, A. M., et al (2023). Factors related to relapse of congenital talipes equinovarus (ctev) after the ponseti method. *Cureus*. <https://doi.org/10.7759/cureus.43701>
- Mousa, N.O. *et al.* (2023) 'MicroRNAs as a tool for differential diagnosis of neuromuscular disorders,' *NeuroMolecular Medicine*, 25(4), pp. 603–615. <https://doi.org/10.1007/s12017-023-08763-0>.
- Muhammad, H. et al. (2022) 'Genes on syndromic and idiopathic CTEV: A systematic review', *International Journal of Surgery Open*, 47, p. 100547. doi:10.1016/j.ijso.2022.100547.
- Muhammad, H. et al. (2023) 'Genetic role in recurrence of idiopathic CTEV: A systematic review', *Orthopedic Research and Reviews*, Volume 15, pp. 19–25. doi:10.2147/orr.s400243.

- Naeimi, N., Kouchesfahani, H. M., Heidari, Z., & Mahmoudzadeh- Sagheb, H. (2024). Effect of smoking on methylation and semen parameters. *Environmental and Molecular Mutagenesis*, 65(1-2), 76-83.
- Nair, N.Y. *et al.* (2022) 'Actin cytoskeleton in angiogenesis,' *Biology Open*, 11(12). <https://doi.org/10.1242/bio.058899>.
- Narrandes, Shavira and Xu, Wayne. (2018). Gene Expression Detection Assay for Cancer Clinical Use. *Journal of Cancer*. 9. 2249-2265. 10.7150/jca.24744.
- Navarro, A. I., and Rico, B. (2014). Focal adhesion kinase function in neuronal development. *Current opinion in neurobiology*, 27, 89–95. <https://doi.org/10.1016/j.conb.2014.03.002>
- Nguyen, T.P.N. *et al.* (2022) 'MicroRNA alteration, application as biomarkers, and therapeutic approaches in neurodegenerative diseases,' *International Journal of Molecular Sciences*, 23(9), p. 4718. <https://doi.org/10.3390/ijms23094718>.
- Nourmahnad, A. *et al.* (2024) 'Relaxin as a treatment for musculoskeletal fibrosis: What we know and future directions,' *Biochemical Pharmacology*, 225, p. 116273. <https://doi.org/10.1016/j.bcp.2024.116273>.
- Novoseletskaya, E. S., Evdokimov, P. V., and Efimenko, A. Y. (2023). Extracellular matrix-induced signaling pathways in mesenchymal stem/stromal cells. *Cell communication and signaling : CCS*, 21(1), 244. <https://doi.org/10.1186/s12964-023-01252-8>
- Olsen, J.J. *et al.* (2017) *The role of WNT signalling in angiogenesis*. <https://pmc.ncbi.nlm.nih.gov/articles/PMC5759160/>.
- P, B. *et al.* (2011) 'PI3K/AKT signaling determines a dynamic switch between distinct KSRP functions favoring skeletal myogenesis,' *Cell Death and Differentiation*, 19(3), pp. 478–487. <https://doi.org/10.1038/cdd.2011.117>.
- Park, S.-S., Kim, S.W., Jung, B.-S., Lee, H.S. & Kim, J.S. (2009) Selective soft-tissue release for recurrent or residual deformity after conservative treatment of idiopathic clubfoot. *Journal of Bone and Joint Surgery - British Volume*, 91-B(11), pp.1526–1530.
- Pavone, V. *et al.* (2018) 'The etiology of idiopathic congenital talipes equinovarus: a systematic review,' *Journal of Orthopaedic Surgery and Research*, 13(1). <https://doi.org/10.1186/s13018-018-0913-z>.
- Peng, Y. and Croce, C. M. (2016). The role of micrornas in human cancer. *Signal Transduction and Targeted Therapy*, 1(1).
- Peterson, J.F. *et al.* (2013) 'Familial microduplication of 17q23.1-q23.2 involving TBX4 is associated with congenital clubfoot and reduced penetrance in

- females,' *American Journal of Medical Genetics Part A*, 164(2), pp. 364–369. <https://doi.org/10.1002/ajmg.a.36238>.
- Pigeolet, M. *et al.* (2022) 'The impact of socio-economic factors on parental non-adherence to the Ponseti protocol for clubfoot treatment in low- and middle-income countries: A scoping review,' *EClinicalMedicine*, 48, p. 101448. <https://doi.org/10.1016/j.eclinm.2022.101448>.
- Ponseti I, Morcuende A.J, Mosca V, Pirani F.D S, Herzenberg E.J, Weinstein S, et al. (2005) *Clubfoot: Ponseti Management*, 2nd edition, Global-Help Publication
- Ponseti, I. (1996) *Congenital clubfoot: Fundamentals of Treatment*. <https://ci.nii.ac.jp/ncid/BA35064444>.
- Quirico, L., and Orso, F. (2020). The power of microRNAs as diagnostic and prognostic biomarkers in liquid biopsies. *Cancer drug resistance (Alhambra, Calif.)*, 3(2), 117–139. <https://doi.org/10.20517/cdr.2019.103>
- Raines, A.M. et al. (2015) 'Key pathways regulated by HoxA9,10,11/HoxD9,10,11 during limb development,' *BMC Developmental Biology*, 15(1). <https://doi.org/10.1186/s12861-015-0078-5>.
- Rauen, K. A., & Tidyman, W. E. (2024). RASopathies - what they reveal about RAS/MAPK signaling in skeletal muscle development. *Disease models & mechanisms*, 17(6), dmm050609. <https://doi.org/10.1242/dmm.050609>
- Reddy, V.P. et al. (2022) 'A 6-gene signature using NanoString distinguishes active TB from latent infection in Indian cohorts', *Journal of Clinical Tuberculosis and Other Mycobacterial Diseases*, 28, 100326. PMID: 35015839
- Rendy, G., Winanto, I.D. and Irsyam, O.I.A. (2022) 'THE EFFECT OF SOCIOECONOMIC FACTORS ON THE FIRST VISIT OF a CLUBFOOT TO a HEALTH FACILITY,' *International Journal of Research Publications*, 101(1). <https://doi.org/10.47119/ijrp1001011520223187>.
- Rinn, J. L. and Chang, H. Y. (2012). Genome regulation by long noncoding rnas. *Annual Review of Biochemistry*, 81(1), 145-166. <https://doi.org/10.1146/annurev-biochem-051410-092902>
- Rosenberg, S.S. and Spitzer, N.C. (2011) 'Calcium signaling in neuronal development,' *Cold Spring Harbor Perspectives in Biology*, 3(10), p. a004259. <https://doi.org/10.1101/cshperspect.a004259>.
- Rosso, S. B., and Inestrosa, N. C. (2013). WNT signaling in neuronal maturation and synaptogenesis. *Frontiers in cellular neuroscience*, 7, 103. <https://doi.org/10.3389/fncel.2013.00103>

- Rudnicki, M. A., and Williams, B. O. (2015). Wnt signaling in bone and muscle. *Bone*, 80, 60–66. <https://doi.org/10.1016/j.bone.2015.02.009>
- Russell, S. A., and Bashaw, G. J. (2018). Axon guidance pathways and the control of gene expression. *Developmental dynamics : an official publication of the American Association of Anatomists*, 247(4), 571–580. <https://doi.org/10.1002/dvdy.24609>
- Sadler, B., Gurnett, C. A. and Dobbs, M. B. (2019). The genetics of isolated and syndromic clubfoot, Available at: 10.1302/1863-2548.13.19006
- Sahu, M. R., and Mondal, A. C. (2021). Neuronal Hippo signaling: From development to diseases. *Developmental neurobiology*, 81(2), 92–109. <https://doi.org/10.1002/dneu.22796>
- Salybekov, A.A. *et al.* (2018) 'Sonic hedgehog signaling pathway in endothelial progenitor cell biology for Vascular Medicine,' *International Journal of Molecular Sciences*, 19(10), p. 3040. <https://doi.org/10.3390/ijms19103040>.
- Sánchez-Alegría, K. *et al.* (2018) 'PI3K signaling in neurons: a central node for the control of multiple functions,' *International Journal of Molecular Sciences*, 19(12), p. 3725. <https://doi.org/10.3390/ijms19123725>.
- Shiojima, I., and Walsh, K. (2002). Role of Akt signaling in vascular homeostasis and angiogenesis. *Circulation research*, 90(12), 1243–1250. <https://doi.org/10.1161/01.res.0000022200.71892.9f>
- Small, E.M. *et al.* (2010) 'Regulation of PI3-kinase/Akt signaling by muscle-enriched microRNA-486,' *Proceedings of the National Academy of Sciences*, 107(9), pp. 4218–4223. <https://doi.org/10.1073/pnas.1000300107>.
- Smythe, T. *et al.* (2017) 'Assessment of success of the Ponseti method of clubfoot management in sub-Saharan Africa: a systematic review,' *BMC Musculoskeletal Disorders*, 18(1). <https://doi.org/10.1186/s12891-017-1814-8>.
- Sran, S., & Bedrosian, T. A. (2023). RAS pathway: The new frontier of brain mosaicism in epilepsy. *Neurobiology of disease*, 180, 106074. <https://doi.org/10.1016/j.nbd.2023.106074>
- Stroynowska-Czerwińska et al (2014). "The panorama of miRNA-mediated mechanisms in mammalian cells" *Cellular and Molecular Life Sciences* doi:10.1007/s00018-013-1551-6.
- Tang S. J. (2014). Synaptic activity-regulated Wnt signaling in synaptic plasticity, glial function and chronic pain. *CNS & neurological disorders drug targets*, 13(5), 737–744. <https://doi.org/10.2174/1871527312666131223114457>

- Tang, D. D., & Gerlach, B. D. (2017). The roles and regulation of the actin cytoskeleton, intermediate filaments and microtubules in smooth muscle cell migration. *Respiratory research*, 18(1), 54. <https://doi.org/10.1186/s12931-017-0544-7>
- Tran, K. (2019). Circulating extra-cellular rnas, myocardial remodeling, and heart failure in patients with acute coronary syndrome. *Journal of Clinical and Translational Research*. <https://doi.org/10.18053/jctres.05.201901.003>
- Traweek, R.S. et al. (2017) 'High-throughput sarcoma fusion gene detection using NanoString technology on FFPE samples', *The American Journal of Surgical Pathology*, 41(1), pp. 57–64. PMID: 29104083
- Tu, M.K. et al. (2016) 'Calcium signaling in skeletal muscle development, maintenance and regeneration,' *Cell Calcium*, 59(2–3), pp. 91–97. <https://doi.org/10.1016/j.ceca.2016.02.005>.
- Tseng, H., Li, S., & Tsai, K. (2019). Metformin treatment suppresses melanoma cell growth and motility through modulation of microrna expression. *Cancers*, 11(2), 209. <https://doi.org/10.3390/cancers11020209>
- Valkovic, A. L., Bathgate, R. A., Samuel, C. S., & Kocan, M. (2019). Understanding relaxin signalling at the cellular level. *Molecular and cellular endocrinology*, 487, 24–33. <https://doi.org/10.1016/j.mce.2018.12.017>
- Van Bosse, H.J. (2015) 'Syndromic Feet', *Foot and Ankle Clinics*, 20(4), pp. 619–644. doi:10.1016/j.fcl.2015.07.010.
- Van Schelven, H. *et al.* (2021) 'Prognostic factors for recurrent idiopathic clubfoot deformity: a systematic literature review and meta-analysis,' *Acta Orthopaedica*, pp. 1–9. <https://doi.org/10.1080/17453674.2021.1982576>.
- Vargas- Franco, D. *et al.* (2022) 'The Notch signaling pathway in skeletal muscle health and disease,' *Muscle & Nerve*, 66(5), pp. 530–544. <https://doi.org/10.1002/mus.27684>.
- Veeraval, L., O'Leary, C. J., & Cooper, H. M. (2020). Adherens Junctions: Guardians of Cortical Development. *Frontiers in cell and developmental biology*, 8, 6. <https://doi.org/10.3389/fcell.2020.00006>
- Wang, C. L., & Coluccio, L. M. (2010). New insights into the regulation of the actin cytoskeleton by tropomyosin. *International review of cell and molecular biology*, 281, 91–128. [https://doi.org/10.1016/S1937-6448\(10\)81003-2](https://doi.org/10.1016/S1937-6448(10)81003-2)
- Wang, L.-L. et al. (2005) '[Analysis of association between 5' HOXD gene and idiopathic congenital talipes equinovarus].', *PubMed*, 22(6), pp. 653–6. <https://pubmed.ncbi.nlm.nih.gov/16331564>.

- Wang, Y. (2018) 'Relationship between HOX gene and pediatric congenital clubfoot,' *Experimental and Therapeutic Medicine*[Preprint]. <https://doi.org/10.3892/etm.2018.6013>.
- Wang, Y. *et al.* (2021) *MiR-125a-3p inhibits cell proliferation and inflammation responses in fibroblast-like synovial cells in rheumatoid arthritis by mediating the Wnt/ β -catenin and NF- κ B pathways via targeting MAST3*. <https://pmc.ncbi.nlm.nih.gov/articles/PMC8672414/>.
- Weber, J.A. *et al.* (2010) 'The MicroRNA spectrum in 12 body fluids,' *Clinical Chemistry*, 56(11), pp. 1733–1741.
- Wei, H., Peng, G., Hao, B., Liao, B., Zhao, Z., Zhou, Y., et al (2017). Nicotine-induced airway smooth muscle cell proliferation involves trpc6-dependent calcium influx via α 7 nachr. *Cellular Physiology and Biochemistry*, 43(3), 986-1002. <https://doi.org/10.1159/000481651>
- Wei, W. *et al.* (2023) 'circSLC25A13 acts as a ceRNA to regulate AML progression via miR- 616- 3p/ADCY2 axis,' *Molecular Carcinogenesis*, 62(10), pp. 1546–1562. <https://doi.org/10.1002/mc.23598>.
- Werler, M.M. *et al.* (2013) 'Descriptive epidemiology of idiopathic clubfoot,' *American Journal of Medical Genetics Part A*, 161(7), pp. 1569–1578. <https://doi.org/10.1002/ajmg.a.35955>.
- Werler, M.M. *et al.* (2014) 'Maternal cigarette, alcohol, and coffee consumption in relation to risk of Clubfoot,' *Paediatric and Perinatal Epidemiology*, 29(1), pp. 3–10. <https://doi.org/10.1111/ppe.12163>.
- Weymouth, K.S. *et al.* (2016) 'Functional assessment of Clubfoot associated HOXA9, TPM1, and TPM2 variants suggests a potential gene regulation mechanism,' *Clinical Orthopaedics and Related Research*, 474(7), pp. 1726–1735. <https://doi.org/10.1007/s11999-016-4788-1>.
- Whichard et al (2011). "Slowly Produced MicroRNAs Control Protein Levels" *Journal of Biological Chemistry* doi:10.1074/jbc.m110.166348.
- Xiang, X., Mei, H., Qu, H., Zhao, X., Li, D., Song, H., ... & Tong, Q. (2015). Mirna-584-5p exerts tumor suppressive functions in human neuroblastoma through repressing transcription of matrix metalloproteinase 14. *Biochimica Et Biophysica Acta (BBA) - Molecular Basis of Disease*, 1852(9), 1743-1754. <https://doi.org/10.1016/j.bbadis.2015.06.002>
- Xu, J.-W. *et al.* (2014) 'Insulin-Like Growth Factor 1 Receptor (IGF-1R) as a Target of MiR-497 and Plasma IGF-1R Levels Associated with TNM Stage of Pancreatic Cancer,' *PLoS ONE*, 9(3), p. e92847. <https://doi.org/10.1371/journal.pone.0092847>.

- Yan, S.K., MA *et al.* (2020) 'Extracellular matrix and cellular plasticity in musculoskeletal development,' *Frontiers in Cell and Developmental Biology*, 8. <https://doi.org/10.3389/fcell.2020.00781>.
- Yang, H., Zheng, Z., Cai, H., Li, H., Ye, X., Zhang, X., et al (2016). Three novel missense mutations in the filamin b gene are associated with isolated congenital talipes equinovarus. *Human Genetics*, 135(10), 1181-1189. <https://doi.org/10.1007/s00439-016-1701-7>.
- Yang, L. *et al.* (2022) 'Extracellular matrix and synapse formation,' *Bioscience Reports*, 43(1). <https://doi.org/10.1042/bsr20212411>.
- Yong, B., Xun, F., Zhao, L., Deng, H., & Xu, H. (2016). A systematic review of association studies of common variants associated with idiopathic congenital talipes equinovarus (ictev) in humans in the past 30 years. *SpringerPlus*, 5(1).
- Yu, L. *et al.* (2022) 'Hsa_circ_0030042 Ameliorates Oxidized Low-Density Lipoprotein-Induced Endothelial Cell Injury via the MiR-616-3p/RFX7 Axis,' *International Heart Journal*, 63(4), pp. 763–772. <https://doi.org/10.1536/ihj.22-065>.
- Zanardi, A. *et al.* (2019) 'Standing and walking age in children with idiopathic clubfoot: French physiotherapy versus Ponseti method,' *Journal of Children S Orthopaedics*, 13(5), pp. 471–477. <https://doi.org/10.1302/1863-2548.13.190097>.
- Zhang, J., Li, S., Ma, S., Liu, Y., Wang, X., & Li, Y. (2020). Whole-exome sequencing study identifies two novel rare variations associated with congenital talipes equinovarus. *Molecular Medicine Reports*. <https://doi.org/10.3892/mmr.2020.11038>
- Zhang, B. et al. (2023) 'A human embryonic limb cell atlas resolved in space and time,' *Nature*, 635(8039), pp. 668–678. <https://doi.org/10.1038/s41586-023-06806-x>.
- Zheng, Z. *et al.* (2022) 'Involvement of PI3K/Akt signaling pathway in promoting osteogenesis on titanium implant surfaces modified with novel non-thermal atmospheric plasma,' *Frontiers in Bioengineering and Biotechnology*, 10. <https://doi.org/10.3389/fbioe.2022.975840>.
- Zhu, N. *et al.* (2023) 'The Hippo signaling pathway: from multiple signals to the hallmarks of cancers,' *Acta Biochimica Et Biophysica Sinica*, 55(6), pp. 904–913. <https://doi.org/10.3724/abbs.2023035>.
- Zieba, J.T. *et al.* (2020) 'Notch signaling in skeletal development, homeostasis and pathogenesis,' *Biomolecules*, 10(2), p. 332. <https://doi.org/10.3390/biom10020332>.