

DAFTAR PUSTAKA

- Abdik, H., Kırbaş, O.K., Bozkurt, B.T., Avşar Abdik, E., Hayal, T.B., Şahin, F. & Taşlı, P.N. (2024) 'Endothelial cell-derived extracellular vesicles induce pro-angiogenic responses in mesenchymal stem cells', *FEBS Open Bio*, 14(5), pp. 740–755.
- Aimaletdinov, A.M. & Gomzikova, M.O. (2022) 'Tracking of Extracellular Vesicles' Biodistribution: New Methods and Approaches', *International Journal of Molecular Sciences*, 23(19), p. 11312.
- Ameer, O.Z. (2022) 'Hypertension in chronic kidney disease: What lies behind the scene', *Frontiers in Pharmacology*, 13.
- Arendshorst, W.J., Vendrov, A.E., Kumar, N., Ganesh, S.K. & Madamanchi, N.R. (2024) 'Oxidative Stress in Kidney Injury and Hypertension', *Antioxidants*, 13(12), p. 1454.
- Arifianto, D. (2020) 'HISTOPATOLOGY, BLOOD UREA NITROGEN AND CREATININE PROFILE OF RATS WITH UNILATERAL URETERAL LIGATION', *Indonesian Journal of Veterinary Science*, 1(1), .
- Badar, A., Ahmed, A., Al-Tamimi, D.M., Isab, A.A., Altaf, M. & Ahmed, S. (2021) 'Histological Changes in Renal, Hepatic and Cardiac Tissues of Wistar Rats after 6 Weeks Treatment with Bipyridine Gold (III) Complex with Dithiocarbamate Ligands', *Pharmaceutics*, 13(10), p. 1530.
- Basile, D.P., Ullah, M.M., Collet, J.A. & Mehrotra, P. (2021) 'T helper 17 cells in the pathophysiology of acute and chronic kidney disease', *Kidney Research and Clinical Practice*, 40(1), pp. 12–28.
- Borges, F.T., Melo, S.A., Özdemir, B.C., Kato, N., Revuelta, I., Miller, C.A., Gattone, V.H., LeBleu, V.S. & Kalluri, R. (2013) 'TGF- β 1-Containing Exosomes from Injured Epithelial Cells Activate Fibroblasts to Initiate Tissue Regenerative Responses and Fibrosis', *Journal of the American Society of Nephrology*, 24(3), pp. 385–392.
- BPOM (2022) *Peraturan Badan Pengawas Obat dan Makanan Nomor 10 Tahun 2022 tentang Pedoman Uji Toksisitas Praktis Secara In Vivo*,
- Bruno, S., Kholia, S., Deregibus, M.C. & Camussi, G. (2019) *The Role of Extracellular Vesicles as Paracrine Effectors in Stem Cell-Based Therapies*, in [Online]. pp. 175–193.
- Burger, D., Viñas, J.L., Akbari, S., Dehak, H., Knoll, W., Gutsch, A., Carter, A., Touyz, R.M., Allan, D.S. & Burns, K.D. (2015) 'Human Endothelial Colony-Forming Cells Protect against Acute Kidney Injury', *The American Journal of Pathology*, 185(8), pp. 2309–2323.
- Cao, Y., Gong, Y., Liu, L., Zhou, Y., Fang, X., Zhang, C., Li, Y. & Li, J. (2017) 'The use of human umbilical vein endothelial cells (HUVECs) as an in vitro model to assess the toxicity of nanoparticles to endothelium: a review'. *Journal of Applied Toxicology* 37 (12) p.pp. 1359–1369.

- Chen, S., Mukoyama, T., Sato, N., Yamagata, S.-I., Arai, Y., Satoh, N. & Ueda, S. (2002) 'Induction of Nephrotoxic Serum Nephritis in Inbred Mice and Suppressive Effect of Colchicine on the Development of this Nephritis', *Pharmacological Research*, 45(4), pp. 319–324.
- Chen, S., Zhang, M., Li, J., Huang, J., Zhou, S., Hou, X., Ye, H., Liu, X., Xiang, S., Shen, W., Miao, J., Hou, F.F., Liu, Y. & Zhou, L. (2022) 'β-catenin-controlled tubular cell-derived exosomes play a key role in fibroblast activation via the OPN-CD44 axis', *Journal of Extracellular Vesicles*, 11(3), .
- Cheng, T.C., Hsu, Y.W., Lu, F.J., Chen, Y.Y., Tsai, N.M., Chen, W.K. & Tsai, C.F. (2018) 'Nephroprotective effect of electrolyzed reduced water against cisplatin-induced kidney toxicity and oxidative damage in mice', *Journal of the Chinese Medical Association*, 81(2), pp. 119–126.
- Conte, M.S., Bradbury, A.W., Kolh, P., White, J. V., Dick, F., Fitridge, R., Mills, J.L., Ricco, J.B., Suresh, K.R., Murad, M.H., Aboyans, V., Aksoy, M., Alexandrescu, V.A., Armstrong, D., Azuma, N., Belch, J., Bergoeing, M., Bjorck, M., Chakfé, N., *et al.* (2019) 'Global Vascular Guidelines on the Management of Chronic Limb-Threatening Ischemia', *European Journal of Vascular and Endovascular Surgery*, 58(1), pp. S1-S109.e33.
- Dalu, A., Blaydes, B.S., Lomax, L.G. & Delclos, K.B. (2000) 'A comparison of the inflammatory response to a polydimethylsiloxane implant in male and female Balb/c mice', *Biomaterials*, 21(19), pp. 1947–1957.
- Davidson, S.M., Riquelme, J.A., Zheng, Y., Vicencio, J.M., Lavandero, S. & Yellon, D.M. (2018) 'Endothelial cells release cardioprotective exosomes that may contribute to ischaemic preconditioning', *Scientific Reports*, 8(1), .
- Derelanko, M.J. & Auletta, C.S. (2014) *Handbook of Toxicology*. 3rd Edition. Michael J. Derelanko & Carol S. Auletta (eds.). CRC Press.
- Dong, J., Wu, Y., Zhang, Y., Yu, M. & Tian, W. (2020) 'Comparison of the Therapeutic Effect of Allogeneic and Xenogeneic Small Extracellular Vesicles in Soft Tissue Repair', *International Journal of Nanomedicine*, Volume 15pp. 6975–6991.
- Dou, Y., Zhai, H., Li, H., Xing, H., Zhu, C. & Xuan, Z. (2024) 'Endothelial cells-derived exosomes-based hydrogel improved tendinous repair via anti-inflammatory and tissue regeneration-promoting properties', *Journal of Nanobiotechnology*, 22(1), p. 401.
- Doyle, L.M. & Wang, M.Z. (2019) 'Overview of extracellular vesicles, their origin, composition, purpose, and methods for exosome isolation and analysis'. *Cells* 8 (7).
- Eirin, A., Zhu, X.-Y., Puranik, A.S., Tang, H., McGurren, K.A., van Wijnen, A.J., Lerman, A. & Lerman, L.O. (2017) 'Mesenchymal stem cell-derived extracellular vesicles attenuate kidney inflammation', *Kidney International*, 92(1), pp. 114–124.

- Eljarrah, A., Gergues, M., Pobiaryzyn, P.W., Sandiford, O.A. & Rameshwar, P. (2019) *Therapeutic Potential of Mesenchymal Stem Cells in Immune-Mediated Diseases*, in [Online]. pp. 93–108.
- Ellistasari, E.Y., Kariosentono, H., Purwanto, B., Wasita, B., Riswiyant, R.C.A., Pamungkasari, E.P. & Soetrisno, S. (2022) ‘Exosomes Derived from Secretome Human Umbilical Vein Endothelial Cells (Exo-HUVEC) Ameliorate the Photo-Aging of Skin Fibroblast’, *Clinical, Cosmetic and Investigational Dermatology*, 15pp. 1583–1591.
- Gildea, J.J., Seaton, J.E., Victor, K.G., Reyes, C.M., Bigler Wang, D., Pettigrew, A.C., Courtner, C.E., Shah, N., Tran, H.T., Van Sciver, R.E., Carlson, J.M. & Felder, R.A. (2014) ‘Exosomal transfer from human renal proximal tubule cells to distal tubule and collecting duct cells’, *Clinical Biochemistry*, 47(15), pp. 89–94.
- Griffin, B.R., Faubel, S. & Edelstein, C.L. (2019) ‘Biomarkers of Drug-Induced Kidney Toxicity’, *Therapeutic Drug Monitoring*, 41(2), pp. 213–226.
- Gu, Z., Yin, Z., Song, P., Wu, Y., He, Y., Zhu, M., Wu, Z., Zhao, S., Huang, H., Wang, H., Tong, C. & Qi, Z. (2022) ‘Safety and biodistribution of exosomes derived from human induced pluripotent stem cells’, *Frontiers in Bioengineering and Biotechnology*, 10.
- Gurung, S., Perocheau, D., Touramanidou, L. & Baruteau, J. (2021) ‘The exosome journey: from biogenesis to uptake and intracellular signalling’, *Cell Communication and Signaling*, 19(1), p. 47.
- Ha, D.H., Kim, S.D., Lee, J., Kwon, H.H., Park, G.H., Yang, S.H., Jung, J.Y., Lee, J.H., Park, S.R., Youn, J., Lee, S.H., Kim, J.E., Lim, J., Lee, H.K., Cho, B.S. & Yi, Y.W. (2020) ‘Toxicological evaluation of exosomes derived from human adipose tissue-derived mesenchymal stem/stromal cells’, *Regulatory Toxicology and Pharmacology*, 115.
- Hade, M.D., Suire, C.N. & Suo, Z. (2021) ‘Mesenchymal stem cell-derived exosomes: Applications in regenerative medicine’, *Cells*, 10(8), .
- He, C., Zheng, S., Luo, Y. & Wang, B. (2018) ‘Exosome theranostics: Biology and translational medicine’. *Theranostics* 8 (1) p.pp. 237–255.
- Hu, H., Jiang, C., Li, R. & Zhao, J. (2019) ‘Comparison of endothelial cell- and endothelial progenitor cell-derived exosomes in promoting vascular endothelial cell repair.’, *International journal of clinical and experimental pathology*, 12(7), pp. 2793–2800.
- Huerta, C.T., Voza, F.A., Ortiz, Y.Y., Liu, Z.J. & Velazquez, O.C. (2023) ‘Mesenchymal stem cell-based therapy for non-healing wounds due to chronic limb-threatening ischemia: A review of preclinical and clinical studies’. *Frontiers in Cardiovascular Medicine* 10.
- Ismail, M.T., Anggrahini, D.W., Haryana, S.M. & Setianto, B.Y. (2024) ‘HUVECs-derived exosomes increase neovascularization and decrease limb necrosis in hindlimb ischemia’, *Narra J*, 4(3), p. e1358.

- Jang, K.W., Hur, J., Lee, D.W. & Kim, S.R. (2024) 'Metabolic Syndrome, Kidney-Related Adiposity, and Kidney Microcirculation: Unraveling the Damage', *Biomedicines*, 12(12), p. 2706.
- Jia, H., Liu, W., Zhang, B., Wang, J., Wu, P., Tandra, N., Liang, Z., Ji, C., Yin, L., Hu, X., Yan, Y., Mao, F., Zhang, X., Yu, J., Xu, W. & Qian, H. (2018) 'HucMSC exosomes-delivered 14-3-3 ζ enhanced autophagy via modulation of ATG16L in preventing cisplatin-induced acute kidney injury.', *American journal of translational research*, 10(1), pp. 101–113.
- Jin, C., Wu, P., Wu, W., Chen, W., Liu, W., Zhu, Y., Wu, Q., Chen, B., Ji, C. & Qian, H. (2025) 'Therapeutic role of hucMSC-sEV-enriched miR-13896 in cisplatin-induced acute kidney injury through M2 macrophage polarization', *Cell Biology and Toxicology*, 41(1), p. 50.
- Kang, M., Jordan, V., Blenkiron, C. & Chamley, L.W. (2021) 'Biodistribution of extracellular vesicles following administration into animals: A systematic review'. *Journal of Extracellular Vesicles* 10 (8).
- Klopfleisch, R. (2013) 'Multiparametric and semiquantitative scoring systems for the evaluation of mouse model histopathology - a systematic review', *BMC Veterinary Research*, 9(1), p. 123.
- Kocoglu, H., Ozturk, Hulya, Ozturk, Hayrettin, Yilmaz, F. & Gulcu, N. (2009) 'Effect of Dexmedetomidine on Ischemia-Reperfusion Injury in Rat Kidney: A Histopathologic Study', *Renal Failure*, 31(1), pp. 70–74.
- Krylova, S. V. & Feng, D. (2023) 'The Machinery of Exosomes: Biogenesis, Release, and Uptake'. *International Journal of Molecular Sciences* 24 (2).
- Kumar, P., Mehta, D. & Bissler, J.J. (2023) 'Physiologically Based Pharmacokinetic Modeling of Extracellular Vesicles'. *Biology* 12 (9).
- Kwon, S.H. (2019) 'Extracellular vesicles in renal physiology and clinical applications for renal disease.', *The Korean journal of internal medicine*, 34(3), pp. 470–479.
- Lai, J.J., Chau, Z.L., Chen, S.Y., Hill, J.J., Korpany, K. V., Liang, N.W., Lin, L.H., Lin, Y.H., Liu, J.K., Liu, Y.C., Lunde, R. & Shen, W.T. (2022) 'Exosome Processing and Characterization Approaches for Research and Technology Development'. *Advanced Science* 9 (15).
- Li, S., Chen, J., Chen, X., Chen, Ming, Chai, Z., Zhuang, W. & Chen, Mao (2025) 'A bioprosthetic heart valve modified by HUVEC-exosomes with improved biocompatibility, endothelialization and anticalcification properties', *Chemical Engineering Journal*, 504p. 159078.
- Li, Y., Waheed, Y. & Sun, D. (2025) 'Exosomes and Renal Fibrosis: Diagnostic Value, Therapeutic Potential and Challenges', *International Journal of Nanomedicine*, Volume 20pp. 11267–11294.
- Liu, J., Ren, L., Li, S., Li, W., Zheng, X., Yang, Y., Fu, W., Yi, J., Wang, J. & Du, G. (2021) 'The biology, function, and applications of exosomes in cancer'. *Acta Pharmaceutica Sinica B* 11 (9) p.pp. 2783–2797.
- Liu, W., Feng, Y., Wang, X., Ding, J., Li, H., Guan, H. & Chen, Z. (2022) 'Human umbilical vein endothelial cells-derived exosomes enhance cardiac function after

- acute myocardial infarction by activating the PI3K/AKT signaling pathway', *Bioengineered*, 13(4), pp. 8850–8865.
- Liu, X., Liu, Z., Wang, C., Miao, J., Zhou, S., Ren, Q., Jia, N., Zhou, L. & Liu, Y. (2023) 'Kidney tubular epithelial cells control interstitial fibroblast fate by releasing TNFAIP8-encapsulated exosomes', *Cell Death & Disease*, 14(10), p. 672.
- Liu, X., Miao, J., Wang, C., Zhou, S., Chen, S., Ren, Q., Hong, X., Wang, Y., Hou, F.F., Zhou, L. & Liu, Y. (2020) 'Tubule-derived exosomes play a central role in fibroblast activation and kidney fibrosis', *Kidney International*, 97(6), pp. 1181–1195.
- Liu, Y., Chen, J., Liang, H., Cai, Y., Li, X., Yan, L., Zhou, L., Shan, L. & Wang, H. (2022) 'Human umbilical cord-derived mesenchymal stem cells not only ameliorate blood glucose but also protect vascular endothelium from diabetic damage through a paracrine mechanism mediated by MAPK/ERK signaling', *Stem Cell Research and Therapy*, 13(1), .
- Manca, S., Upadhyaya, B., Mutai, E., Desaulniers, A.T., Cederberg, R.A., White, B.R. & Zemleni, J. (2018) 'Milk exosomes are bioavailable and distinct microRNA cargos have unique tissue distribution patterns', *Scientific Reports*, 8(1), p. 11321.
- Mao, A.S. & Mooney, D.J. (2015) 'Regenerative medicine: Current therapies and future directions', *Proceedings of the National Academy of Sciences of the United States of America*, 112(47), pp. 14452–14459.
- Marsico, G., Martin-Saldaña, S. & Pandit, A. (2021) 'Therapeutic Biomaterial Approaches to Alleviate Chronic Limb Threatening Ischemia'. *Advanced Science* 8 (7).
- Medina-Leyte, D.J., Domínguez-Pérez, M., Mercado, I., Villarreal-Molina, M.T. & Jacobo-Albavera, L. (2020) 'Use of human umbilical vein endothelial cells (HUVEC) as a model to study cardiovascular disease: A review', *Applied Sciences (Switzerland)*, 10(3), .
- Meliana, A., Ratnani, A.H.P., Hasanatuludhhiyah, N., Rahniayu, A., Mastutik, G. & Rahaju, A.S. (2024) 'Protective effect of olive leaf (*Olea europaea* L.) extract against chronic exposure of liver and kidney tissues of Wistar rats to aluminum chloride', *Journal of HerbMed Pharmacology*, 13(2), pp. 333–341.
- Mobarak, H., Mahdipour, M., Ghaffari-Nasab, A. & Rahbarghazi, R. (2024) 'Xenogeneic Transplantation Promoted Human Exosome Sequestration in Rat Specific Organs', *Advanced Pharmaceutical Bulletin*, 14(2), pp. 426–433.
- Motrenikova, M., Boyanov, K., Bojinova, N. & Bivolarska, A. (2025) 'Stress Pathways in Chronic Kidney Disease: Linking Cortisol, Oxidative Stress, and Inflammation', *Antioxidants*, 14(10), p. 1259.
- Munkonda, M.N., Akbari, S., Landry, C., Sun, S., Xiao, F., Turner, M., Holterman, C.E., Nasrallah, R., Hébert, R.L., Kennedy, C.R.J. & Burger, D. (2018) 'Podocyte-derived microparticles promote proximal tubule fibrotic signaling via p38 MAPK and CD36', *Journal of Extracellular Vesicles*, 7(1), .

- Naseri, Z., Oskuee, R.K., Jaafari, M.R. & Moghadam, M.F. (2018) 'Exosome-mediated delivery of functionally active miRNA-142-3p inhibitor reduces tumorigenicity of breast cancer in vitro and in vivo', *International Journal of Nanomedicine*, 13pp. 7727–7747.
- Nassar, W., El-Ansary, M., Sabry, D., Mostafa, M.A., Fayad, T., Kotb, E., Temraz, M., Saad, A.-N., Essa, W. & Adel, H. (2016) 'Umbilical cord mesenchymal stem cells derived extracellular vesicles can safely ameliorate the progression of chronic kidney diseases', *Biomaterials Research*, 20(1), .
- van Niel, G., Carter, D.R.F., Clayton, A., Lambert, D.W., Raposo, G. & Vader, P. (2022) 'Challenges and directions in studying cell–cell communication by extracellular vesicles', *Nature Reviews Molecular Cell Biology*, 23(5), pp. 369–382.
- Patel, Suresh, Patel, Satish, Kotadiya, A., Patel, Samir, Shrimali, B., Tank, M., Patel, T., Trivedi, H., Kshirsagar, S. & Jain, M. (2025) 'Comparative Analysis of the Effect of Sex and Age on the Hematological and Biochemical Profile of BALB/c and C57BL/6 Inbred Mice', *Journal of the American Association for Laboratory Animal Science*, 64(1), pp. 132–145.
- Richardson, S.M., Kalamegam, G., Pushparaj, P.N., Matta, C., Memic, A., Khademhosseini, A., Mobasheri, R., Poletti, F.L., Hoyland, J.A. & Mobasheri, A. (2016) 'Mesenchymal stem cells in regenerative medicine: Focus on articular cartilage and intervertebral disc regeneration'. *Methods* 99 p.pp. 69–80.
- Rodrigues, S.C., Cardoso, R.M.S., Gomes, C.F., Duarte, F. V., Freire, P.C., Neves, R. & Simoes-Correia, J. (2021) 'Toxicological profile of umbilical cord blood-derived small extracellular vesicles', *Membranes*, 11(9), .
- Royo, F., Cossío, U., Ruiz de Angulo, A., Llop, J. & Falcon-Perez, J.M. (2019) 'Modification of the glycosylation of extracellular vesicles alters their biodistribution in mice', *Nanoscale*, 11(4), pp. 1531–1537.
- Said, O.H., Okafor, C.J., Haji, H.T., Babu, P.B., Nayak, V.S., Obianagha, N.F. & Galano, E.S. (2021) 'Effect of Short and Long Term Restraint Stress on the Histology of Liver, Kidney and Suprarenal Gland in Albino Mice during Postweaning Period', *Journal of Pharmaceutical Research International*, pp. 6–19.
- Seely, J.C., Brix, A., Cesta, M.F., Malarkey, D.E. & Herbert, R. (n.d.) *National Toxicology Program Nonneoplastic Lesion Atlas*. [Online]
- Shao, J., Zaro, J. & Shen, Y. (2020) 'Advances in exosome-based drug delivery and tumor targeting: From tissue distribution to intracellular fate'. *International Journal of Nanomedicine* 15 p.pp. 9355–9371.
- Shen, A.-R., Zhong, X., Tang, T.-T., Wang, C., Jing, J., Liu, B.-C. & Lv, L.-L. (2021) 'Integrin, Exosome and Kidney Disease', *Frontiers in Physiology*, 11.
- Sousa, P., Lopes, B., Sousa, A.C., Moreira, A., Coelho, A., Alvites, R., Alves, N., Geuna, S. & Mauricio, A.C. (2023) 'Advancements and Insights in Exosome-Based Therapies for Wound Healing: A Comprehensive Systematic Review (2018–June 2023)'. *Biomedicines* 11 (8).

- Stechman, M.J., Ahmad, B.N., Loh, N.Y., Reed, A.A.C., Stewart, M., Wells, S., Hough, T., Bentley, L., Cox, R.D., Brown, S.D.M. & Thakker, R. V (2010) 'Establishing normal plasma and 24-hour urinary biochemistry ranges in C3H, BALB/c and C57BL/6J mice following acclimatization in metabolic cages', *Laboratory Animals*, 44(3), pp. 218–225.
- Street, J.M., Birkhoff, W., Menzies, R.I., Webb, D.J., Bailey, M.A. & Dear, J.W. (2011) 'Exosomal transmission of functional aquaporin 2 in kidney cortical collecting duct cells', *The Journal of Physiology*, 589(24), pp. 6119–6127.
- Suman, S., Domingues, A., Ratajczak, J. & Ratajczak, M.Z. (2019) *Potential Clinical Applications of Stem Cells in Regenerative Medicine*, in [Online]. pp. 1–22.
- Sun, L., Xu, R., Sun, X., Duan, Y., Han, Y., Zhao, Y., Qian, H., Zhu, W. & Xu, W. (2016) 'Safety evaluation of exosomes derived from human umbilical cord mesenchymal stromal cell', *Cytotherapy*, 18(3), pp. 413–422.
- Teixido-Trujillo, S., Luis-Lima, S., López-Martínez, M., Navarro-Díaz, M., Díaz-Martín, L., Escasany-Martínez, E., Gaspari, F. & Rodríguez-Rodríguez, A.E. (2023) 'Measured GFR in murine animal models: review on methods, techniques, and procedures', *Pflügers Archiv - European Journal of Physiology*, 475(11), pp. 1241–1250.
- Terzic, A. & Behfar, A. (2016) 'Stem cell therapy for heart failure: Ensuring regenerative proficiency', *Trends in Cardiovascular Medicine*, 26(5), pp. 395–404.
- Tung, Y.-T., Hsu, Y.-J., Liao, C.-C., Ho, S.-T., Huang, C.-C. & Huang, W.-C. (2019) 'Physiological and Biochemical Effects of Intrinsically High and Low Exercise Capacities Through Multiomics Approaches', *Frontiers in Physiology*, 10.
- Uzunoglu, S., Karagol, H., Ozpuyan, F., Cosar, R., Cicin, I., Yurutcaloglu, V., Denizli, B., Tanriverdi, Ö., Sut, N. & Kocak, Z. (2011) 'Protective effect of l-carnitine versus amifostine against cisplatin-induced nephrotoxicity in rats', *Medical Oncology*, 28(S1), pp. 690–696.
- Vallon, V., Eraly, S.A., Rao, S.R., Gerasimova, M., Rose, M., Nagle, M., Anzai, N., Smith, T., Sharma, K., Nigam, S.K. & Rieg, T. (2012) 'A role for the organic anion transporter OAT3 in renal creatinine secretion in mice', *American Journal of Physiology-Renal Physiology*, 302(10), pp. F1293–F1299.
- Viñas, J.L., Spence, M., Gutsol, A., Knoll, W., Burger, D., Zimpelmann, J., Allan, D.S. & Burns, K.D. (2018) 'Receptor-Ligand Interaction Mediates Targeting of Endothelial Colony Forming Cell-derived Exosomes to the Kidney after Ischemic Injury', *Scientific Reports*, 8(1), p. 16320.
- Wang, B., Zhang, A., Wang, H., Klein, J.D., Tan, L., Wang, Z.M., Du, J., Naqvi, N., Liu, B.C. & Wang, X.H. (2019) 'miR-26a limits muscle wasting and cardiac fibrosis through exosome-mediated microRNA transfer in chronic kidney disease', *Theranostics*, 9(7), pp. 1864–1877.
- Wang, H., Wang, B., Zhang, A., Hassounah, F., Seow, Y., Wood, M., Ma, F., Klein, J.D., Price, S.R. & Wang, X.H. (2019) 'Exosome-Mediated miR-29 Transfer

- Reduces Muscle Atrophy and Kidney Fibrosis in Mice’, *Molecular Therapy*, 27(3), pp. 571–583.
- Wang, Z., Yang, J., Sun, Xiaohui, Sun, Xi, Yang, G. & Shi, X. (2023) ‘Exosome-mediated regulatory mechanisms in skeletal muscle: a narrative review’. *Journal of Zhejiang University: Science B* 24 (1) p.pp. 1–14.
- Wiklander, O.P.B., Nordin, J.Z., O’Loughlin, A., Gustafsson, Y., Corso, G., Mäger, I., Vader, P., Lee, Y., Sork, H., Seow, Y., Heldring, N., Alvarez-Erviti, L., Edvard Smith, C.I., Le Blanc, K., Macchiarini, P., Jungebluth, P., Wood, M.J.A. & El Andaloussi, S. (2015) ‘Extracellular vesicle in vivo biodistribution is determined by cell source, route of administration and targeting’, *Journal of Extracellular Vesicles*, 4(2015), pp. 1–13.
- Wu, X., Gao, Y., Xu, L., Dang, W., Yan, H., Zou, D., Zhu, Z., Luo, L., Tian, N., Wang, X., Tong, Y. & Han, Z. (2017) ‘Exosomes from high glucose-treated glomerular endothelial cells trigger the epithelial-mesenchymal transition and dysfunction of podocytes’, *Scientific Reports*, 7(1), p. 9371.
- Xu, D., Li, H., Katsube, T., Huang, G., Liu, J., Wang, B. & Zhang, H. (2022) ‘Effects of Concurrent Exposure to Chronic Restraint-Induced Stress and Total-Body Iron Ion Radiation on Induction of Kidney Injury in Mice’, *International Journal of Molecular Sciences*, 23(9), p. 4866.
- Yang, B., Chen, Y. & Shi, J. (2019) ‘Exosome Biochemistry and Advanced Nanotechnology for Next-Generation Theranostic Platforms’. *Advanced Materials* 31 (2).
- Yanuar, F., Dharmawan, N., Julianto, I., Kusumawardani, A., Setyawan, N.A., Rosmarwati, E. & Ellistasari, E.Y. (2023) ‘The effect of human umbilical vein endothelial cells exosomes on the skin of intrinsic aging Wistar rats’, *Journal of Applied Pharmaceutical Science*, 13(2), pp. 117–123.
- Yi, Y.W., Lee, J.H., Kim, S.Y., Pack, C.G., Ha, D.H., Park, S.R., Youn, J. & Cho, B.S. (2020) ‘Advances in analysis of biodistribution of exosomes by molecular imaging’. *International Journal of Molecular Sciences* 21 (2).
- Yin, H., Zhong, Y., Wang, H., Hu, J., Xia, S., Xiao, Y., Nie, S. & Xie, M. (2022) ‘Short-term exposure to high relative humidity increases blood urea and influences colonic urea-nitrogen metabolism by altering the gut microbiota’, *Journal of Advanced Research*, 35pp. 153–168.
- Yoshihara, M., Oguchi, A. & Murakawa, Y. (2019) *Genomic Instability of iPSCs and Challenges in Their Clinical Applications*, in [Online]. pp. 23–47.
- Yuan, M., Liu, K., Jiang, T., Li, S., Chen, J., Wu, Z., Li, W., Tan, R., Wei, W., Yang, X., Dai, H. & Chen, Z. (2022) ‘GelMA/PEGDA microneedles patch loaded with HUVECs-derived exosomes and Tazarotene promote diabetic wound healing’, *Journal of Nanobiotechnology*, 20(1), .
- Zakrzewski, W., Dobrzyński, M., Szymonowicz, M. & Rybak, Z. (2019) ‘Stem cells: Past, present, and future’. *Stem Cell Research and Therapy* 10 (1).
- Zhang, K., Li, R., Chen, Xiaoniao, Yan, H., Li, H., Zhao, X., Huang, H., Chen, S., Liu, Y., Wang, K., Han, Zhibo, Han, Zhong-Chao, Kong, D., Chen, Xiang-Mei & Li,

- Z. (2023) 'Renal Endothelial Cell-Targeted Extracellular Vesicles Protect the Kidney from Ischemic Injury', *Advanced Science*, 10(3), .
- Zhang, Y., Liu, Y., Liu, H. & Tang, W.H. (2019) 'Exosomes: biogenesis, biologic function and clinical potential', *Cell & Bioscience*, 9(1), p. 19.
- Zhao, D., Yu, Z., Li, Y., Wang, Y., Li, Q. & Han, D. (2020) 'GelMA combined with sustained release of HUVECs derived exosomes for promoting cutaneous wound healing and facilitating skin regeneration', *Journal of Molecular Histology*, 51(3), pp. 251–263.
- Zheng, Z., Schmidt-Ott, K.M., Chua, S., Foster, K.A., Frankel, R.Z., Pavlidis, P., Barasch, J., D'Agati, V.D. & Gharavi, A.G. (2005) 'A Mendelian locus on chromosome 16 determines susceptibility to doxorubicin nephropathy in the mouse', *Proceedings of the National Academy of Sciences*, 102(7), pp. 2502–2507.
- Zhong, Y. & Luo, L. (2021) 'Exosomes from Human Umbilical Vein Endothelial Cells Ameliorate Ischemic Injuries by Suppressing the RNA Component of Mitochondrial RNA-processing Endoribonuclease via the Induction of miR-206/miR-1-3p Levels', *Neuroscience*, 476pp. 34–44.
- Zhou, C., Zhang, B., Yang, Y., Jiang, Q., Li, T., Gong, J., Tang, H. & Zhang, Q. (2023) 'Stem cell-derived exosomes: emerging therapeutic opportunities for wound healing'. *Stem Cell Research and Therapy* 14 (1).
- Zhou, W., Chen, X., Zhou, Y., Shi, S., Liang, C., Yu, X., Chen, H., Guo, Q., Zhang, Y., Liu, P., Li, C., Chu, Y., Luo, Y., Wang, Y., Zhou, Z., Zhao, Z., Chen, Q., Sun, T. & Jiang, C. (2022) 'Exosomes derived from immunogenically dying tumor cells as a versatile tool for vaccination against pancreatic cancer', *Biomaterials*, 280.
- Zhou, Y., Xu, H., Xu, W., Wang, B., Wu, H., Tao, Y., Zhang, B., Wang, M., Mao, F., Yan, Y., Gao, S., Gu, H., Zhu, W. & Qian, H. (2013) 'Exosomes released by human umbilical cord mesenchymal stem cells protect against cisplatin-induced renal oxidative stress and apoptosis in vivo and in vitro.', *Stem cell research & therapy*, 4(2), p. 34.
- Zou, X., Gu, D., Xing, X., Cheng, Z., Gong, D., Zhang, G. & Zhu, Y. (2016) 'Human mesenchymal stromal cell-derived extracellular vesicles alleviate renal ischemic reperfusion injury and enhance angiogenesis in rats.', *American journal of translational research*, 8(10), pp. 4289–4299.
- Zou, X., Kwon, S.H., Jiang, K., Ferguson, C.M., Puranik, A.S., Zhu, X. & Lerman, L.O. (2018) 'Renal scattered tubular-like cells confer protective effects in the stenotic murine kidney mediated by release of extracellular vesicles', *Scientific Reports*, 8(1), p. 1263.
- Zuo, D.-B., Wang, C.-H., Sang, M., Sun, X.-D., Chen, G.-P. & Ji, K.-K. (2025) 'Stem cell therapy for diabetes: Advances, prospects, and challenges', *World Journal of Diabetes*, 16(7), .