

DONGSHENG DUAN'S PUBLICATIONS

Books

- 2011 — Muscle Gene Therapy: Methods and Protocols. Humana Press, New York, NY (Duan, D. editor)
- 2010 — Muscle Gene Therapy, Springer, New York, NY (Duan, D. editor) All Publications

All Publications

2025

- [Burke MJ, Blatt BM, Teixeira JA, Perez-Lopez DO, Yue Y, Pan X, Hakim CH, Yao G, Herzog RW, Duan D.](#) Adeno-associated virus-8/9 myofiber type/size tropism profiling reveals therapeutic effect of microdystrophin in canines. *Journal of Cachexia, Sarcopenia and Muscle* 16(1):e13681, 2025.
- [Pérez-López DO, Burke MJ, Hakim CH, Teixeira JA, Han J, Yue Y, Ren Z, Sun J, Chen S-J, Herzog RW, Yao G, Duan D.](#) Circulatory CCL2 distinguishes Duchenne muscular dystrophy dogs. *Disease Models and Mechanisms* 18(3): dmm052137 2025.

2024

- [Li N, Kumar SRP, Cao D, Munoz-Melero M, Sreevani A, Brian BA, Greenwood CM, Yamada K, Duan D, Herzog RW.](#) Redundancy in innate immune pathways that promotes CD8+ T cells responses in AAV1 muscle gene transfer. *Viruses* 16:1507 2024.
- [Morales ED \(equal contribution\), Wang D \(equal contribution\), Burke MJ \(equal contribution\), Han J, Devine DD, Zhang K, Duan D.](#) Transcriptional changes of genes encoding sarcoplasmic reticulum calcium binding and up-taking proteins in normal and Duchenne muscular dystrophy dogs. *BMC Musculoskeletal Disorders* 16:1507 2024.
- [Hu B, Herzog R. Duan D.](#) R-loops facilitate AAV-mediated nuclease-free gene targeting. *Molecular Therapy* 32(12):4172-4174, 2024.
- [Kwak SE, Wang H, Pan X, Duan D, Cartee GD.](#) Genetic reduction of skeletal muscle glycogen synthase 1 abundance reveals that the refeeding-induced reversal of elevated insulin-stimulated glucose uptake after exercise is not attributable to achieving a high muscle glycogen concentration. *FASEB Journal* 38(22):e70176, 2024.
- [Duan D.](#) Full-length dystrophin gene therapy for Duchenne muscular dystrophy. **Molecular Therapy** 2024 Aug 12: S1525-0016(24)00483-0
- [Kwak SE, Zheng A, Arias EB, Wang H, Pan X, Yue Y, Duan D, Cartee GD.](#) *A novel genetic model provides a unique perspective on the relationship between postexercise glycogen concentration*

- and increases in the abundance of key metabolic proteins after acute exercise. **PLoS ONE** 19(1): e0295964, **2024**.
- [Rana J, Herzog RW, Yamada K, Kumar SRP, Munoz-Melero M, Lam AK, Marusic DM, Duan D, Terhorst C, Byrne BJ, Corti M, Biswas M.](#) *B Cell Focused Transient 1 Immune Suppression Protocol for Efficient AAV Readministration to the Liver.* **Molecular Therapy-Methods & Clinical Development** 32(1):101216, **2024**.
 - [Wang H, Kwak SE, Zheng A, Arias EB, Pan X, Duan D, Cartee GD.](#) *Phosphorylation of AS160-Serine 704 is not essential for the exercise-induced increase in insulin-stimulated glucose uptake by skeletal muscles from female or male rats.* **American Journal of Physiology-Endocrinology and Metabolism** 326(6):E807-E818, **2024**.
 - [Duan D.](#) *Dystrophin and associated proteins.* **Encyclopedia of the Neurological Sciences.** (Third edition). Elsevier. Online April 09, **2024**.
 - [Cao D, Byrne BJ, de Long YP, Terhorst C, Duan D, Herzog RW, Sandeep RP.](#) *Innate immune sensing of AAV vectors.* **Human Gene Therapy** 35(13-14):451-463, **2024**
 - [Kodippili K, Hakim HH, Burke MJ, Yue Y, Teixeira JA, Zhang K, Yao G, Babu GJ, Herzog RW, Duan D.](#) *SERCA2a overexpression improves muscle function in the canine Duchenne muscular dystrophy model.* **Molecular Therapy-Methods & Clinical Development** 32(2):101268, **2024**.
 - [Wang D, Duan D.](#) *Humoral and cellular immune responses to AAV delivery in the airway.* **Molecular Therapy-Methods & Clinical Development** 32(3):101274, **2024**.

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- [Hakim CH, Perez-Lopez D, Burke M, Teixeira J, Duan D.](#) Molecular and biochemical assessment of gene therapy in the canine model of Duchenne muscular dystrophy. **Methods in Molecular Biology** 2587:255-301, **2023**
- [Hakim CH, Burke M, Teixeira J, Duan D.](#) Histological assessment of gene therapy in the canine DMD model. **Methods in Molecular Biology** 2587:303-338, **2023**
- [Hakim CH, Teixeira J, Leach SB, Duan D.](#) Physiological assessment of muscle, heart, and whole-body function in the canine model of Duchenne muscular dystrophy. **Methods in Molecular Biology** 2587:67-103, **2023**
- [Kumar SRP, Duan D, Herzog RW.](#) Immune Responses to Muscle-Directed AAV Gene Transfer in Clinical Studies. **Human Gene Therapy** 34(9-10):365-371, **2023**
- [Duan D.](#) *Duchenne muscular dystrophy gene therapy in 2023: Status, perspective, and beyond.* **Human Gene Therapy** 34(9-10):345-349, **2023**
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- [Onyali V, Nourian Z, Boerman EM, Hanft LM, Krenz M, Baines CP, Duan D, McDonald KS, Domeier TL.](#) *Calcium handling dysfunction and cardiac damage following acute ventricular*

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- [Wasala LP, Watkin TB, Wasala NB, Burke MJ, Yue Y, Lai Y, Yao G, Duan D.](#) The implication of hinge 1 and hinge 4 in micro-dystrophin gene therapy for Duchenne muscular dystrophy. *Human Gene Therapy* 2023. In-press
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- [Hakim CH, Burke M, Teixeira J, Duan D.](#) Histological assessment of gene therapy in the canine DMD model. *Methods in Molecular Biology* 2587:303-338, **2023**.

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- [Zhang X, Jenkins JG, Hakim CH, Duan D*, Yao G*](#). *Four-limb wireless IMU sensor system for automatic gait detection in canines* (*, co-corresponding author) **Scientific Reports** 12:4788, **2022**
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