

Title	Journal	Link	Publication date	References	Top Paper
In vivo imaging in experimental spinal cord injury – Techniques and trends	Brain and Spine		2022	Vanessa, Hubertus, Lea, Meyer, Laurens, Roofs, Lilly, Waldmann, Melina, Nieminen-Kelhä, Michael G., Fehlings, Peter, Vajkoczy	Yes
Modulation of vascular response after injury in the rat Achilles tendon alters healing capacity	Journal of Orthopaedic Research		2020	Corinne N., Riggan, Ashley B., Rodriguez, Stephanie N., Weiss, Harina A., Raja, Mengcun, Chen, Susan M., Schultz, Chandra M., Sehgal, Louis J., Soslowsky	Yes
Clinically-applicable perfluorocarbon-loaded nanoparticles for in vivo photoacoustic,19f magnetic resonance and fluorescent imaging	Nanotheranostics		2018	Edyta, Swider, Khalid, Daoudi, Alexander H.J., Staal, Olga, Koshkina, N., Koen van Riessen, Eric, van Dinther, I. Jolanda M., de Vries, Chris L., de Korte, Mangala, Srinivas	Yes
Tetrazine-Derived Near-Infrared Dye as a Facile Reagent for Developing Targeted Photoacoustic Imaging Agents	Molecular Pharmaceutics		2020	Samantha, Slikboer, Zoya, Naperstkov, Nancy, Janzen, Amber, Faraday, Yohannes, Soenjaya, Johann, Le Floc'h, Salma, Al-Karmi, Rowan, Swann, Kevin, Wyszatko, Christine E. M., Demore, Stuart, Foster, John F., Valliant	Yes
Accuracy of Ultrasound-Guided versus Landmark-Guided Intra-articular Injection for Rat Knee Joints	Ultrasound in Medicine & Biology	https://linkinghub.elsevier.com/retrieve/pii/S0301562919306684	2019	Amparo, Ruiz, Dalibel, Bravo, Alejandra, Duarte, Ronald S., Adler, José G., Raya	Yes
Ultrasound as a New Imaging Tool to Assess Pathological Change of Joints in Preclinical Mouse Models of Osteoarthritis	Journal of Orthopaedics and Physiotherapy		2018	X, Lin, L, Xing	Yes
Evaluation of luciferase and prefusion-stabilized F protein from respiratory syncytial virus mRNA/LNPs in pre-clinical models using jet delivery compared to needle and syringe	Vaccine: X		2024	Brian K., Meyer, Debbie, Nahas, Myunggi, An, Andrew, Danziger, Jeffrey, Smith, Manish, Patel, Shu An, Lin, Alexa, Gleason, Kara, Cox, Robert, Capen, John, Howe, Andrew, Bett	No
Reactive oxygen species (ROS)-mediated M1 macrophage-dependent nanomedicine remodels inflammatory microenvironment for osteoarthritis recession	Bioactive Materials		2024	Chunchun, Xue, Jia, Tian, Zepeng, Cui, Yang, Liu, Dawei, Sun, Mengting, Xiong, Nanxing, Yi, Kaiqiang, Wang, Xiaofeng, Li, Yongjun, Wang, Hao, Xu, Weian, Zhang, Qianqian, Liang	No
Establishment and pathophysiological evaluation of a novel model of acute compartment syndrome in rats	BMC Musculoskeletal Disorders		2024	Qi, Dong, Yubin, Long, Lin, Jin, Guanlin, Hou, Guoqiang, Li, Tao, Wang, Huiyang, Jia, Yingchao, Yin, Junfei, Guo, Huijie, Ma, Sujuan, Xu, Yingze, Zhang, Zhiyong, Hou	No

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In Vivo Photoacoustic Ultrasound (PAUS) Assay for Monitoring Tendon Collagen Compositional Changes during Injury and Healing	Diagnostics		2024	Joseph B., Newton, Courtney A., Nuss, Stephanie N., Weiss, Rebecca L., Betts, Chandra M., Sehgal, Louis J., Soslowsky	No
Early skeletal muscle loss in adolescent and young adult cancer patients treated with anthracycline chemotherapy	Cancer Medicine		2023	Savannah V., Wooten, Fei, Wang, Michael E., Roth, Guanshu, Liu, J. Andrew, Livingston, Behrang, Amini, Susan C., Gilchrist, Michelle, Hildebrandt, Eugenie S., Kleinerman	No
Sildenafil, a phosphodiesterase-5 inhibitor, stimulates angiogenesis and bone regeneration in an atrophic non-union model in mice	Journal of Translational Medicine		2023	Maximilian M., Menger, David, Bauer, Michelle, Bleimehl, Claudia, Scheuer, Benedikt J., Braun, Steven C., Herath, Mika F., Rollmann, Michael D., Menger, Matthias W., Laschke, Tina, Histing	No
Direct optogenetic activation of upper airway muscles in an acute model of upper airway hypotonia mimicking sleep onset	SLEEP		2023	Fiona L, Knapman, E Myfanwy, Cohen, Tom, Kulaga, Nigel, Lovell, Leszek, Lisowski, Simon, McMullan, Peter G R, Burke, Lynne E, Bilston	No
Anti-inflammatory therapy enables robot-actuated regeneration of aged muscle	Science robotics		2023	S. L., McNamara, B. R., Seo, B. R., Freedman, E. B., Roloson, J. T., Alvarez, C. T., O'Neill, H. H., Vandenburgh, C. J., Walsh, D. J., Mooney	No
Skeletal muscle regeneration with robotic actuation-mediated clearance of neutrophils	Science Translational Medicine		2021	Bo Ri, Seo, Christopher J., Payne, Stephanie L., McNamara, Benjamin R., Freedman, Brian J., Kwee, Sungmin, Nam, Irene, de Lázaro, Max, Darnell, Jonathan T., Alvarez, Maxence O., Dellacherie, Herman H., Vandenburgh, Conor J., Walsh, David J., Mooney	No
Aging and matrix viscoelasticity affect multiscale tendon properties and tendon derived cell behavior	Acta Biomaterialia		2022	Benjamin R., Freedman, Raphael S., Knecht, Yann, Tinguely, G. Ege, Eskibozkurt, Cathy S., Wang, David J., Mooney	No
Monitoring Muscle Perfusion in Rodents During Short-Term Ischemia Using Power Doppler Ultrasound	Ultrasound in Medicine & Biology	https://linkinghub.elsevier.com/retrieve/pii/S0301562923000650	2023	Somaye, Babaei, Bingze, Dai, Craig K, Abbey, Yamenah, Ambreen, Wawrzyniec L., Dobrucki, Michael F., Insana	No
Multifunctional Nanoparticles Co-Loaded with Perfluoropropane, Indocyanine Green, and Methotrexate for Enhanced Multimodal Imaging of Collagen-Induced Arthritis	Molecular Pharmaceutics		2022	Xinyu, He, Huanhuan, Chen, Shufang, Chang, Shenying, Zhu	No

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Therapeutic Properties of Ayahuasca Components in Ischemia/Reperfusion Injury of the Eye	Biomedicines		2022	Anna, Szilágyi, Barbara, Takács, Réka, Szekeres, Vera, Tarjányi, Mariann, Bombicz, Dániel, Priks, Attila, Kovács, Béla, Juhász, Ede, Frecska, Zoltán, Szilvássy, Balázs, Varga	No
The Therapeutic Effect of iMSC-Derived Small Extracellular Vesicles on Tendinopathy Related Pain Through Alleviating Inflammation: An in vivo and in vitro Study	Journal of Inflammation Research		2022	Zhaochen, Zhu, Renzhi, Gao, Teng, Ye, Kai, Feng, Juntao, Zhang, Yu, Chen, Zongping, Xie, Yang, Wang	No
Ultrasound imaging tracking of mesenchymal stem cells intracellularly labeled with biosynthetic gas vesicles for treatment of rheumatoid arthritis	Theranostics		2022	Zheli, Gong, Yanni, He, Meijun, Zhou, Huijuan, Xin, Min, Pan, Muhammad, Fiaz, Hongmei, Liu, Fei, Yan	No
Mechanical Deformation of Peripapillary Retina in Response to Acute Intraocular Pressure Elevation	Journal of Biomechanical Engineering		2022	Sunny, Kwok, Manqi, Pan, Nicholas, Hazen, Xueliang, Pan, Jun, Liu	No
Ultrasound strain mapping of the mouse Achilles tendon during passive dorsiflexion	Journal of Biomechanics	https://doi.org/10.1016/j.jbiomech.2021.110920	2022	Keshia E., Mora, Samuel J., Mlawer, Albert J., Bae, Michael S., Richards, Alayna E., Loisel, Mark R., Buckley	No
Nonsurgical treatment reduces tendon inflammation and elevates tendon markers in early healing	Journal of Orthopaedic Research		2022	Benjamin R., Freedman, Kwasi, Adu-Berchie, Carrie, Barnum, George W., Fryhofer, Nabeel S., Salka, Snehal, Shetye, Louis J., Soslowsky	No
Achilles Tendon Ruptures in Middle-Aged Rats Heal Poorly Compared With Those in Young and Old Rats	American Journal of Sports Medicine		2022	Thomas P., Leahy, Courtney A., Nuss, Mary Kate, Evans, Ashley K., Fung, Snehal S., Shetye, Louis J., Soslowsky	No
Enhanced tendon healing by a tough hydrogel with an adhesive side and high drug-loading capacity	Nature Biomedical Engineering		2022	Benjamin R., Freedman, Andreas, Kuttler, Nicolau, Beckmann, Sungmin, Nam, Daniel, Kent, Michael, Schuleit, Farshad, Ramazani, Nathalie, Accart, Anna, Rock, Jianyu, Li, Markus, Kurz, Andreas, Fisch, Thomas, Ullrich, Michael W., Hast, Yann, Tinguely, Eckhard, Weber, David J., Mooney	No
In vivo multimodal imaging of hyaluronan-mediated inflammatory response in articular cartilage	Osteoarthritis and Cartilage		2022	C, Zhang, M K, Cowman, A, Ruiz, A, Duarte, D, Bravo, E Ramos, Gavil, T, Kirsch, M, Milne, L G, Luyt, J G, Raya	No
A bioorthogonal methylene blue derived probe for targeted photoacoustic imaging	European Journal of Medicinal Chemistry Reports	https://doi.org/10.1016/j.ejmcr.2021.100021	2022	Afaf R., Genady, Samantha R., Slikboer, Rowan, Swann, Kevin, Wyszatko, Nancy, Janzen, Luis Rafael, Silva, Mohamed E., El-Zaria, Saman, Sadeghi, John F., Valliant	No

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A smart ROS/NIR dual-responsive melanin delivery platform for photoacoustic imaging-guided osteoarthritis therapy	Applied Materials Today	https://doi.org/10.1016/j.apmt.2021.101216	2021	Jihao, Ruan, Qili, Yu, Haomin, Cui, Xing, Qin, Limei, Qin, Shuai, Chen, Dechao, Niu, Cunyi, Fan	No
3D-Printed Reinforcement Scaffolds with Targeted Biodegradation Properties for the Tissue Engineering of Articular Cartilage	Advanced Healthcare Materials		2021	Enrico, Tosoratti, Philipp, Fisch, Scott, Taylor, Lee Ann, Laurent-Applegate, Marcy, Zenobi-Wong	No
Dental Pulp Mesenchymal Stem Cells Attenuate Limb Ischemia via Promoting Capillary Proliferation and Collateral Development in a Preclinical Model	Stem Cells International		2021	Youfeng, Li, Yuning, Zhang, Hua, Wang, Chengfeng, Sun, Dongmei, Liu, Hongying, Liu, Jia, He, Furong, Chen, Weiting, Wang, Xi, Jiang, Chu Tse, Wu, Yuefeng, Yang	No
Regional variation of corneal stromal deformation measured by high-frequency ultrasound elastography	Experimental Biology and Medicine	http://journals.sagepub.com/doi/10.1177/15353702211029283	2021	Sunny, Kwok, Nicholas, Hazen, Keyton, Clayson, Xueliang, Pan, Jun, Liu	No
Intercellular arc signaling regulates vasodilation	Journal of Neuroscience		2021	June Bryan, de la Peña, Paulino, Barragan-Iglesias, Tzu Fang, Lou, Nikesh, Kunder, Sarah, Loerch, Tarjani, Shukla, Lokesh, Basavarajappa, Jane, Song, Dominique N., James, Salim, Megat, Jamie K., Moy, Andi, Wanghzou, Pradipta R., Ray, Kenneth, Hoyt, Oswald, Steward, Theodore J., Price, Jason, Shepherd, Zachary T., Campbell	No
Nerve Growth Factor-Targeted Molecular Theranostics Based on Molybdenum Disulfide Nanosheet-Coated Gold Nanorods (MoS2-AuNR) for Osteoarthritis Pain	ACS Nano		2021	Man Ting, Au, Jingyu, Shi, Yadi, Fan, Junguo, Ni, Chunyi, Wen, Mo, Yang	No
Limited Scar Resection for Chronic Achilles Tendon Repair: Use of a Rat Model	American Journal of Sports Medicine		2021	Matthew, Counihan, Thomas, Leahy, Courtney, Nuss, Joseph, Newton, Sarthak, Mohanty, Louis J., Soslowsky, Daniel, Farber	No
In vivo photoacoustic imaging for monitoring treatment outcome of corneal neovascularization with metformin eye drops	Biomedical Optics Express	https://www.osapublishing.org/abstract.cfm?URI=boe-12-6-3597	2021	Kwok-Ho, Lui, Shiyang, Li, Wai-sum, Lo, Yanjuan, Gu, Wing-Tak, Wong	No
Real-time visualisation of peripheral nerve trauma during subepineural injection in pig brachial plexus using micro-ultrasound	British Journal of Anaesthesia	https://doi.org/10.1016/j.bja.2021.03.036	2021	Anu, Chandra, Yohannes, Soenjaya, Judy, Yan, Paul, Felts, Graeme, McLeod, Christine, Demore	No

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Hypoxia-induced miR-210 modulates the inflammatory response and fibrosis upon acute ischemia	Cell Death and Disease		2021	Zaccagnini, Germana, Greco, Simona, Longo, Marialucia, Maimone, Biagina, Voellenkle, Christine, Fuschi, Paola, Carrara, Matteo, Creo, Pasquale, Maselli, Davide, Tirone, Mario, Mazzone, Massimiliano, Gaetano, Carlo, Spinetti, Gaia, Martelli, Fabio	No
Ultrasonography study of the skin wound healing process in gilthead seabream (<i>Sparus aurata</i>)	Journal of Fish Diseases		2021	Diana, Ceballos-Francisco, Nuria, García-Carrillo, Alberto, Cuesta, María Ángeles, Esteban	No
Polydatin prevents calcium pyrophosphate crystal-induced arthritis in mice	Nutrients		2021	Francesca, Oliviero, Paola, Galozzi, Anna, Scanu, Francesca, Galuppini, Vanni, Lazzarin, Silvia, Brocco, Giampietro, Ravagnan, Paolo, Sfriso, Roberta, Ramonda, Paolo, Spinella, Leonardo, Punzi, Gianmaria, Pennelli, Roberto, Luisetto	No
Crumbs proteins stabilize the cone mosaics of photoreceptors and improve vision in zebrafish	Journal of Genetics and Genomics	https://doi.org/10.1016/j.jgg.2020.12.002	2021	Qinlong, Hao, Mingjie, Zheng, Kechao, Weng, Yumei, Hao, Yao, Zhou, Yuchen, Lin, Feng, Gao, Ziqi, Kou, Shoji, Kawamura, Ke, Yao, Pinglong, Xu, Jinghai, Chen, Jian, Zou	No
Suppression of hypoxia-inducible factor 1α by low-molecular-weight heparin mitigates ventilation-induced diaphragm dysfunction in a murine endotoxemia model	International Journal of Molecular Sciences		2021	Li Fu, Li, Chung Chieh, Yu, Hung Yu, Huang, Huang Pin, Wu, Chien Ming, Chu, Chih Yu, Huang, Ping Chi, Liu, Yung Yang, Liu	No
Hydration State and Hyaluronidase Treatment Significantly Affect Porcine Vocal Fold Biomechanics	Journal of Voice	https://doi.org/10.1016/j.jvoice.2021.01.014	2021	Chenwei, Duan, Julian M., Jimenez, Craig, Goergen, Abigail, Cox, Preeti M., Sivasankar, Sarah, Calve	No
Cutaneous optical coherence tomography for longitudinal volumetric assessment of intradermal volumes in a mouse model	Scientific Reports		2020	Kornelia, Schuetzenberger, Martin, Pfister, Alina, Messner, Gerhard, Garhöfer, Christine, Hohenadl, Ulrike, Pfeifferberger, Leopold, Schmetterer, René M., Werkmeister	No
Ultrasonography validation for early alteration of diaphragm echodensity and function in the mdx mouse model of Duchenne muscular dystrophy	PLoS ONE	http://dx.doi.org/10.1371/journal.pone.0245397	2021	Antonietta, Mele, Paola, Mantuano, Adriano, Fonzino, Francesco, Rana, Roberta Francesca, Capogrosso, Francesca, Sanarica, Jean Francois, Rolland, Ornella, Cappellari, Annamaria, de Luca	No
Photoacoustic Imaging and Sensing: A New Way to See the Eye	Journal of Ocular Pharmacology and Therapeutics	https://www.liebertpub.com/doi/10.1089/jop.2020.0045	2021	Randolph D., Glickman	No

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Hemodynamic Assay of Hind Limb in Multiple Animal Models	Military Medicine	https://academic.oup.com/milmed/article/186/Supplement_1/351/6119490	2021	Steven M, Hansen, Luke E, Schepers, Ruchira, Pratihari, Jackson, Tibbett, Gilberto, Vallejo, Graham, Grubbs, Thomas, Fisher, Paul E, Hansen, Craig J, Goergen	No
Multispecies Evaluation of a Long-Acting Tenofovir Alafenamide Subdermal Implant for HIV Prophylaxis	Frontiers in Pharmacology		2020	Manjula, Gunawardana, Mariana, Remedios-Chan, Debbie, Sanchez, Simon, Webster, Patricia, Galvan, Rob, Fanter, Amalia E., Castonguay, Paul, Webster, John A., Moss, Joseph, Kuo, Philippe A., Gallay, Kathleen L., Vincent, Massoud, Motamedi, Dana, Weinberger, Mark A., Marzinke, Craig W., Hendrix, Marc M., Baum	No
Heartbeat-induced corneal axial displacement and strain measured by high frequency ultrasound elastography in human volunteers	Translational Vision Science and Technology		2020	Sunny, Kwok, Keyton, Clayson, Nicholas, Hazen, Xueliang, Pan, Yanhui, Ma, Andrew J., Hendershot, Jun, Liu	No
Ultrasound Monitoring of Thymus Involution in Septic Mice	Ultrasound in Medicine and Biology		2021	Misa, Ito, Qian, Wang, Dan, Hao, Hisashi, Sawada, Bin, Huang, Ling, Guo, Alan, Daugherty, Xiang An, Li	No
A novel mouse model of obstructive sleep apnea by bulking agent-induced tongue enlargement results in left ventricular contractile dysfunction	PLoS ONE	http://dx.doi.org/10.1371/journal.pone.0243844	2020	Simon, Lebek, Philipp, Hegner, Christian, Schach, Kathrin, Reuthner, Maria, Tafelmeier, Lars, Siegfried Maier, Michael, Arzt, Stefan, Wagner	No
Ultrasound-guided platelet-rich plasma injection and multimodality ultrasound examination of peripheral nerve crush injury	npj Regenerative Medicine	http://dx.doi.org/10.1038/s41536-020-00101-3	2020	Yaqiong, Zhu, Zhuang, Jin, Jing, Wang, Siming, Chen, Yongqiang, Hu, Ling, Ren, Yuexiang, Wang, Qing, Song, Xiaoqi, Tian, Fang, Xie, Jiang, Peng, Nan, Peng, Yukun, Luo, Yuexiang, Wang	No
Comparison of photoacoustic and fluorescence tomography for the in vivo imaging of ICG-labelled liposomes in the medullary cavity in mice	Photoacoustics	https://linkinghub.elsevier.com/retrieve/pii/S2213597920300501	2020	Jana, Humbert, Olga, Will, Tuula, Peñate-Medina, Oula, Peñate-Medina, Olav, Jansen, Marcus, Both, Claus-Christian, Glüer	No
Evaluation of Hemodynamics in a Murine Hindlimb Ischemia Model Using Spatial Frequency Domain Imaging	Lasers in Surgery and Medicine		2020	Katherine A., Leyba, Sandhya, Vasudevan, Thomas D., O'Sullivan, Craig J., Goergen	No
IOP-induced regional displacements in the optic nerve head and correlation with peripapillary sclera thickness	Experimental Eye Research	https://doi.org/10.1016/j.exer.2020.108202	2020	Yanhui, Ma, Sunny, Kwok, Jiajun, Sun, Xueliang, Pan, Elias, Pavlatos, Keyton, Clayson, Nicholas, Hazen, Jun, Liu	No

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Deficiency of β-arrestin2 exacerbates inflammatory arthritis by facilitating plasma cell formation	Acta Pharmacologica Sinica		2020	Wei jie, Zhou, Dan dan, Wang, Juan, Tao, Yu, Tai, Zheng wei, Zhou, Zhen, Wang, Pai pai, Guo, Wu yi, Sun, Jing yu, Chen, Hua xun, Wu, Shang xue, Yan, Ling ling, Zhang, Qing tong, Wang, Wei, Wei	No
Dual-modal magnetic resonance and photoacoustic tracking and outcome of transplanted tendon stem cells in the rat rotator cuff injury model	Scientific Reports	https://doi.org/10.1038/s41598-020-69214-5	2020	Xueqing, Cheng, Jinshun, Xu, Ziyue, Hu, Jingzhen, Jiang, Zhigang, Wang, Man, Lu	No
Long-Term Monitoring of Donor Xenogeneic Testis Tissue Grafts and Cell Implants in Recipient Mice Using Ultrasound Biomicroscopy	Ultrasound in Medicine and Biology		2020	Mohammad Amin, Fayaz, Awang Hazmi, Awang-Junaidi, Jaswant, Singh, Ali, Honaramooz	No
Ergogenic Effect of BCAAs and L-Alanine Supplementation: Proof-of-Concept Study in a Murine Model of Physiological Exercise	Nutrients	https://www.mdpi.com/2072-6643/12/8/2295	2020	Paola, Mantuano, Gianluca, Bianchini, Ornella, Cappellari, Brigida, Boccanegra, Elena, Conte, Francesca, Sanarica, Antonietta, Mele, Giulia M, Camerino, Laura, Brandolini, Marcello, Allegretti, Michela, De Bellis, Andrea, Aramini, Annamaria, De Luca	No
EphA7+ perivascular cells as myogenic and angiogenic precursors improving skeletal muscle regeneration in a muscular dystrophic mouse model	Stem Cell Research	https://doi.org/10.1016/j.scr.2020.101914	2020	Kohei, Kano, Kiwamu, Horiuchi, Yuri, Yoshida, Taiki, Hayasaka, Maki, Kabara, Yui, Tomita, Takamitsu, Tatsukawa, Risa, Matsuo, Jun, Sawada, Naoki, Nakagawa, Naofumi, Takehara, Naoyuki, Hasebe, Jun-ichi, Kawabe	No
3D High-Frequency Ultrasound Imaging of Cartilage-Bone Interface Compared with Micro-CT	BioMed Research International	https://www.hindawi.com/journals/bmri/2020/6906148/	2020	Yanping, Huang, Choi Han, Chan, Guangquan, Zhou, Yongping, Zheng, Chun Hoi, Yan, Chunyi, Wen	No
Assessment of Age-related Oxygenation Changes in Calf Skeletal Muscle by Photoacoustic Imaging: A Potential Tool for Peripheral Arterial Disease	Ultrasonic Imaging	http://journals.sagepub.com/doi/10.1177/0161734619862287	2019	Brooke M., Kirkham, Susan M., Schultz, Khalid, Ashi, Chandra M., Sehgal	No
Non-Invasive Ultrasound Quantification of Scar Tissue Volume Identifies Early Functional Changes During Tendon Healing	Journal of Orthopaedic Research	http://dx.doi.org/10.1002/jor.24397	2019	Jessica E., Ackerman, Valentina, Studentsova, Marlin, Myers, Mark R., Buckley, Michael S., Richards, Alayna E., Loiselle	No
Ultrasound Evaluation of Anti-Vascular Endothelial Growth Factor-Induced Changes in Vascular Response Following Tendon Injury	Ultrasound in Medicine and Biology		2019	Corinne N., Rigglin, Susan M., Schultz, Chandra M., Sehgal, Louis J., Soslowsky	No

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Ultrasound-guided dry needling of the healthy rat supraspinatus tendon elicits early healing without causing permanent damage	Journal of Orthopaedic Research	https://onlinelibrary.wiley.com/doi/abs/10.1002/jor.24329	2019	Corinne N, Rigglin, Mengcun, Chen, Joshua A, Gordon, Susan M, Schultz, Louis J, Soslowsky, Viviane, Khoury	No
Chronic Nicotine Exposure Alters Uninjured Tendon Vascularity and Viscoelasticity	Foot & Ankle Orthopaedics	http://journals.sagepub.com/doi/10.1177/2473011419842529	2019	Daniel, Gittings, Corinne, Rigglin, James, Boorman-Padgett, Stephanie, Weiss, George, Fryhofer, Daniel, Farber, David, Steinberg, Louis J., Soslowsky	No
Data processing of 3D and 4D in-vivo electron paramagnetic resonance imaging co-registered with ultrasound. 3D printing as a registration tool	Computers & Electrical Engineering	https://linkinghub.elsevier.com/retrieve/pii/S0045790617334560	2019	M., Gonet, B., Epel, M., Elas	No
Effects of Immobilization Angle on Tendon Healing after Achilles Rupture in a Rat Model	Journal of Orthopaedic Research	https://onlinelibrary.wiley.com/doi/abs/10.1002/jor.24241	2019	Cody D., Hillin, George W., Fryhofer, Benjamin R., Freedman, Daniel S., Choi, Stephanie N., Weiss, Julianne, Huegel, Louis J., Soslowsky	No
We are IntechOpen , the world ' s leading publisher of Open Access books Built by scientists , for scientists TOP 1 % Control of a Proportional Hydraulic System	Intech open		2018	Donald Jeanmonod, Jeanmonod, Rebecca, Keisuke; et al., Suzuki, Milan, Hrabovsky, Murilo Pazin, Mariana Furio Franco Bernardes, Lilian Cristina Pereira and Daniel Junqueira Dorta	No
Myopia disease mouse models: a missense point mutation (S673G) and a protein-truncating mutation of the Zfp644 mimic human disease phenotype	Cell & Bioscience	https://cellandbioscience.biomedcentral.com/articles/10.1186/s13578-019-0280-4	2019	Katarzyna I., Szczerkowska, Silvia, Petrezselyova, Jiri, Lindovsky, Marcela, Palkova, Jan, Dvorak, Peter, Makovicky, Mingyan, Fang, Chongyi, Jiang, Lingyan, Chen, Mingming, Shi, Xiao, Liu, Jianguo, Zhang, Agnieszka, Kubik-Zahorodna, Bjoern, Schuster, Inken M., Beck, Vendula, Novosadova, Jan, Prochazka, Radislav, Sedlacek	No
A noninvasive MRI based approach to estimate the mechanical properties of human knee ligaments	Journal of the Mechanical Behavior of Biomedical Materials	https://linkinghub.elsevier.com/retrieve/pii/S1751616118311056	2019	Hamid, Naghibi, Valentina, Mazzoli, Kaj, Gijsbertse, Gerjon, Hannink, Andre, Sprengers, Dennis, Janssen, Ton, Van den Boogaard, Nico, Verdonschot	No
Fibro-Adipogenic Remodeling of the Diaphragm in Obesity-Associated Respiratory Dysfunction	Diabetes	http://diabetes.diabetesjournals.org/lookup/doi/10.2337/db18-0209	2019	Eric D., Buras, Kimber, Converso-Baran, Carol S., Davis, Takeshi, Akama, Fumihito, Hikage, Daniel E., Michele, Susan V., Brooks, Tae-Hwa, Chun	No

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Photoacoustic imaging for monitoring periodontal health: A first human study	Photoacoustics	https://doi.org/10.1016/j.pacs.2018.10.005	2018	Colman, Moore, Yuting, Bai, Ali, Hariri, Joan B., Sanchez, Ching-Yu, Lin, Sreenivas, Koka, Parish, Sedghizadeh, Casey, Chen, Jesse V., Jokerst	No
Lycium Barbarum Polysaccharides Improve Retinopathy in Diabetic Sprague-Dawley Rats	Evidence-Based Complementary and Alternative Medicine	https://www.hindawi.com/journals/ecam/2018/7943212/	2018	Qing, Yao, Yi, Yang, Xiaohong, Lu, Qian, Zhang, Mingxiu, Luo, P Andy, Li, Yan, Pan	No
Biceps Detachment Preserves Joint Function in a Chronic Massive Rotator Cuff Tear Rat Model	The American Journal of Sports Medicine	http://journals.sagepub.com/doi/10.1177/0363546518805091	2018	Mengcun, Chen, Snehal S., Shetye, Julianne, Huegel, Corinne N., Riggan, Daniel J., Gittings, Courtney A., Nuss, Stephanie N., Weiss, Andrew F., Kuntz, Louis J., Soslowsky	No
Indocyanine Green labeling for optical and photoacoustic imaging of Mesenchymal Stem Cells after in vivo transplantation	Journal of Biophotonics	http://doi.wiley.com/10.1002/jbio.201800035	2018	M, Filippi, F, Garelo, C, Pasquino, F, Arena, P, Giustetto, F, Antico, E, Terreno	No
Nicotine impairs intra-substance tendon healing after full thickness injury in a rat model	Journal of Orthopaedic Research®	http://doi.wiley.com/10.1002/jor.24167	2018	Adnan N., Cheema, Joseph B., Newton, James F., Boorman-Padgett, Stephanie N., Weiss, Courtney A., Nuss, Daniel J., Gittings, Daniel C., Farber, Louis J., Soslowsky	No
Improving Stem Cell Delivery to the Trabecular Meshwork Using Magnetic Nanoparticles	Scientific Reports	http://www.nature.com/articles/s41598-018-30834-7	2018	E. J., Snider, K. P., Kubelick, K., Tweed, R. K., Kim, Y., Li, K., Gao, A. T., Read, S., Emelianov, C. R., Ethier	No
Validation of ultrasound as a diagnostic tool to assess vocal cord motion in an animal feasibility study			2018	Karuna, Dewan, Merry E, Sebelik, John D, Boughter, Courtney B, Shires	No
Development and evaluation of a CEACAM6-targeting theranostic nanomedicine for photoacoustic-based diagnosis and chemotherapy of metastatic cancer	Theranostics	http://www.thno.org/v08p4247.htm	2018	Hohyeon, Lee, Yongho, Jang, Suhyun, Park, Hyejin, Jang, Eun-Joo, Park, Hyun Jung, Kim, Hyuncheol, Kim	No
Hydrogen peroxide induced tendinopathic changes in a rat model of patellar tendon injury	Journal of Orthopaedic Research®	http://doi.wiley.com/10.1002/jor.24119	2018	Sai-Chuen, Fu, Man-Yi, Yeung, Christer G., Rolf, Patrick Shu-Hang, Yung, Kai-Ming, Chan, Leung-Kim, Hung	No
Regional Deformation of the Optic Nerve Head and Peripapillary Sclera During IOP Elevation	Investigative Ophthalmology & Visual Science	http://iovs.arvojournals.org/article.aspx?doi=10.1167/iovs.18-24462	2018	Elias, Pavlatos, Yanhui, Ma, Keyton, Clayson, Xueliang, Pan, Jun, Liu	No
Prevascularization of dermal substitutes with adipose tissue-derived microvascular fragments enhances early skin grafting	Scientific Reports	http://www.nature.com/articles/s41598-018-29252-6	2018	Florian S., Frueh, Thomas, Später, Christina, Körbel, Claudia, Scheuer, Anna C., Simson, Nicole, Lindenblatt, Pietro, Giovanoli, Michael D., Menger, Matthias W., Laschke	No

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Titin-based mechanosensing modulates muscle hypertrophy	Journal of Cachexia, Sarcopenia and Muscle	https://onlinelibrary.wiley.com/doi/pdf/10.1002/jcsm.12319	2018	Robbert, van der Pijl, Joshua, Strom, Stefan, Conijn, Johan, Lindqvist, Siegfried, Labeit, Henk, Granzier, Coen, Ottenheijm	No
Non-uniformity in pre-insertional Achilles tendon is not influenced by changing knee angle during isometric contractions	Scandinavian Journal of Medicine & Science in Sports	http://doi.wiley.com/10.1111/sms.13230	2018	Stijn, Bogaerts, Catarina, De Brito Carvalho, An, De Groef, Paul, Suetens, Koen, Peers	No
Stretching reduces skin thickness and improves subcutaneous tissue mobility in a murine model of systemic sclerosis	Frontiers in Immunology		2017	Ying, Xiong, Lisbeth, Berrueta, Katia, Urso, Sara, Olenich, Igla, Muskaj, Gary J., Badger, Antonios, Aliprantis, Robert, Lafyatis, Helene M., Langevin	No
Positive End-expiratory Pressure Ventilation Induces Longitudinal Atrophy in Diaphragm Fibers	American Journal of Respiratory and Critical Care Medicine	http://www.atsjournals.org/doi/10.1164/rccm.201709-1917OC	2018	Johan, Lindqvist, Marloes, van den Berg, Robbert, van der Pijl, Pleuni E., Hooijman, Albertus, Beishuizen, Judith, Elshof, Monique, de Waard, Armand, Girbes, Angelique, Spoelstra-de Man, Zhong-Hua, Shi, Charissa, van den Brom, Sylvia, Bogaards, Shengyi, Shen, Joshua, Strom, Henk, Granzier, Jeroen, Kole, René J.P., Musters, Marinus A., Paul, Leo M.A., Heunks, Coen A.C., Ottenheijm	No
Strain imaging of the lateral collateral ligament using high frequency and conventional ultrasound imaging: An ex-vivo comparison	Journal of Biomechanics	http://linkinghub.elsevier.com/retrieve/pii/S0021929018302240	2018	Kaj, Gijbertse, André, Sprengers, Hamid, Naghibi Beidokhti, Maartje, Nillesen, Chris, de Korte, Nico, Verdonchot	No
Photoacoustic imaging of synovial tissue hypoxia in experimental post-traumatic osteoarthritis.	Progress in biophysics and molecular biology	https://doi.org/10.1016/j.pbiomolbio.2018.03.009	2018	Zhongyu, Liu, Manting, Au, Xuan, Wang, Pok-Man Boris, Chan, Puxiang, Lai, Lei, Sun, Yongping, Zheng, Limin, Rong, Chunyi, Wen	No
Optimal range of injection rates for a lymphatic drug delivery system	Journal of Biophotonics	http://doi.wiley.com/10.1002/jbio.201700401	2018	Honoka, Fujii, Sachiko, Horie, Kazu, Takeda, Shiro, Mori, Tetsuya, Kodama	No
High-frequency spectral ultrasound imaging (SUSI) visualizes early post-traumatic heterotopic ossification (HO) in a mouse model.	Bone	http://www.ncbi.nlm.nih.gov/pubmed/29412179	2018	Kavitha, Ranganathan, Xiaowei, Hong, David, Cholok, Joe, Habbouche, Caitlin, Priest, Christopher, Breuler, Michael, Chung, John, Li, Arminder, Kaura, Hsiao Hsin Sung, Hsieh, Jonathan, Butts, Serra, Ucer, Ean, Schwartz, Steven R, Buchman, Jan P, Stegemann, Cheri X, Deng, Benjamin, Levi	No
Aging leads to inferior Achilles tendon mechanics and altered ankle function in rodents	Journal of Biomechanics	http://dx.doi.org/10.1016/j.jbiomech.2017.06.008	2017	A M, Pardes, Z M, Beach, H, Raja, A B, Rodriguez, B R, Freedman, L J, Soslowsky	No

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Dynamic weight bearing analysis is effective for evaluation of tendinopathy using a customized corridor with multi-directional force sensors in a rat model	Scientific Reports		2017	Po Ting, Wu, Chieh Hsiang, Hsu, Fong Chin, Su, I. Ming, Jou, Shih Yao, Chen, Chao Liang, Wu, Wei Ren, Su, Li Chieh, Kuo	No
High-Frequency Ultrasound Imaging of Tidemark In Vitro in Advanced Knee Osteoarthritis	Ultrasound in Medicine and Biology	https://doi.org/10.1016/j.ultrasmedbio.2017.08.1884	2018	Yan Ping, Huang, Jin, Zhong, Jie, Chen, Chun Hoi, Yan, Yong Ping, Zheng, Chun Yi, Wen	No
Ultrahigh Frequency Ultrasound Imaging of the Hand: A New Diagnostic Tool for Hand Surgery	Hand		2017	Stephen L, Viviano, Laurel K, Chandler, Jonathan D, Keith	No
Cystic fibrosis transmembrane conductance regulator mediates tenogenic differentiation of tendon-derived stem cells and tendon repair: accelerating tendon injury healing by intervening in its downstream signaling	The FASEB Journal	http://www.fasebj.org/lookup/doi/10.1096/fj.201601181R	2017	Yang, Liu, Jia, Xu, Liangliang, Xu, Tianyi, Wu, Yuxin, Sun, Yuk-Wai, Lee, Bin, Wang, Hsiao-Chang, Chan, Xiaohua, Jiang, Jinfang, Zhang, Gang, Li	No
Growth hormone secretagogues prevent dysregulation of skeletal muscle calcium homeostasis in a rat model of cisplatin-induced cachexia	Journal of Cachexia, Sarcopenia and Muscle	http://doi.wiley.com/10.1002/jcsm.12185	2017	Elena, Conte, Giulia Maria, Camerino, Antonietta, Mele, Michela, De Bellis, Sabata, Pierro, Francesco, Rana, Adriano, Fonzino, Roberta, Caloiero, Laura, Rizzi, Elena, Bresciani, Khoubab, Ben Haj Salah, Jean-Alain, Fehrentz, Jean, Martinez, Arcangela, Giustino, Maria Addolorata, Mariggiò, Mauro, Coluccia, Domenico, Tricarico, Marcello Diego, Lograno, Annamaria, De Luca, Antonio, Torsello, Diana, Conte, Antonella, Liantonio	No
Biodegradable Magnesium Screws Accelerate Fibrous Tissue Mineralization at the Tendon-Bone Insertion in Anterior Cruciate Ligament Reconstruction Model of Rabbit	Scientific Reports	http://www.nature.com/articles/srep40369	2017	Jiali, Wang, Jiankun, Xu, Weimin, Fu, Wenxiang, Cheng, Kaiming, Chan, Patrick Shu-hang, Yung, Ling, Qin	No
Local administration of Trolox, a vitamin E analog, reduced tendon adhesion in a chicken model of flexor digitorum profundus tendon injury	Journal of Orthopaedic Translation	http://linkinghub.elsevier.com/retrieve/pii/S2214031X16302728	2016	Yuk Wa, Lee, Sai Chuen, Fu, Tsui Yu, Mok, Kai Ming, Chan, Leung Kim, Hung	No
In vivo longitudinal study of rodent skeletal muscle atrophy using ultrasonography	Scientific Reports	http://dx.doi.org/10.1038/srep20061	2016	Antonietta, Mele, Adriano, Fonzino, Francesco, Rana, Giulia Maria, Camerino, Michela, De Bellis, Elena, Conte, Arcangela, Giustino, Diana, Conte Camerino, Jean-françois, Desaphy	No

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Postinjury biomechanics of Achilles tendon vary by sex and hormone status	Journal of Applied Physiology	http://jap.physiology.org/lookup/doi/10.1152/japphysiol.00620.2016	2016	George W., Fryhofer, Benjamin R., Freedman, Cody D., Hillin, Nabeel S., Salka, Adam M., Pardes, Stephanie N., Weiss, Daniel C., Farber, Louis J., Soslowsky	No
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High-resolution 3D volumetry versus conventional measuring techniques for the assessment of experimental lymphedema in the mouse hindlimb	Scientific Reports	http://www.nature.com/articles/srep34673	2016	Florian S., Frueh, Christina, Körbel, Laura, Gassert, Andreas, Müller, Epameinondas, Gousopoulos, Nicole, Lindenblatt, Pietro, Giovanoli, Matthias W., Laschke, Michael D., Menger	No
Small Fractions of Muscular Dystrophy Embryonic Stem Cells Yield Severe Cardiac and Skeletal Muscle Defects in Adult Mouse Chimeras	STEM CELLS	http://doi.wiley.com/10.1002/stem.2518	2016	J. Patrick, Gonzalez, Sergii, Kyrychenko, Viktoriia, Kyrychenko, Joel S., Schneider, Celine J., Granier, Eric, Himelman, Kevin C., Lahey, Qingshi, Zhao, Ghassan, Yehia, Yuan-Xiang, Tao, Mantu, Bhaumik, Natalia, Shirokova, Diego, Fraidenaich	No
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Intratendinous Injection of Hyaluronate Induces Acute Inflammation: A Possible Detrimental Effect	Plos One	http://dx.plos.org/10.1371/journal.pone.0155424	2016	Po-Ting, Wu, I-Ming, Jou, Li-Chieh, Kuo, Fong-Chin, Su	No
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Injection of Vessel-Derived Stem Cells Prevents Dilated Cardiomyopathy and Promotes Angiogenesis and Endogenous Cardiac Stem Cell Proliferation in mdx/utrn-/- but Not Aged mdx Mouse Models for Duchenne Muscular Dystrophy	Stem Cells Translational Medicine	http://stemcellstm.alphamedpress.org/cgi/doi/10.5966/sctm.2012-0107	2013	J. L., Chun, R., O'Brien, M. H., Song, B. F., Wondrasch, S. E., Berry	No