Title	Journal	Link	Publication date	References	Top Paper
Differential aortic aneurysm formation provoked by chemogenetic oxidative stress	Journal of Clinical Investigation	https://doi.org/10.1172/JCI188743	2025	Apabrita Ayan, Das, Markus, Waldeck-Weiermair, Shambhu, Yadav, Fotios, Spyropoulos, Arvind, Pandey, Tanoy, Dutta, Taylor A., Covington, Thomas, Michel	Yes
Imaging Techniques for Aortic Aneurysms and Dissections in Mice: Comparisons of Ex Vivo, In Situ, and Ultrasound Approaches	Biomolecules	https://doi.org/10.3390/biom12020339	2022	Sohei, Ito, Hong S., Lu, Alan, Daugherty, Hisashi, Sawada	Yes
Fast super-resolution ultrasound microvessel imaging using spatiotemporal data with deep fully convolutional neural network	Physics in Medicine and Biology	https://doi.org/10.1088/1361-6560/abeb31	2021	U. Wai, Lok, Chengwu, Huang, Ping, Gong, Shanshan, Tang, Lulu, Yang, Wei, Zhang, Yohan, Kim, Panagiotis, Korfiatis, Daniel J., Blezek, Fabrice, Lucien, Rongqin, Zheng, Joshua D., Trzasko, Shigao, Chen	Yes
A Protocol for Evaluating Vital Signs and Maternal-Fetal Parameters Using High-Resolution Ultrasound in Pregnant Mice	STAR Protocols	https://doi.org/10.1016/j.xpro.2020.100134	2020	Jose, Galaz, Roberto, Romero, Marcia, Arenas-Hernandez, Bogdan, Panaitescu, Valeria, Garcia-Flores, Nardhy, Gomez-Lopez	Yes
Scutellarin Prevents Angiogenesis in Diabetic Retinopathy by Downregulating VEGF/ERK/FAK/Src Pathway Signaling	Journal of Diabetes Research	https://www.hindawi.com/journals/jdr/2019/4875421/	2019	Lingli, Long, Yubin, Li, Shuang, Yu, Xiang, Li, Yue, Hu, Tengfei, Long, Liqin, Wang, Wenwen, Li, Xiaoxin, Ye, Zunfu, Ke, Haipeng, Xiao	Yes
Pharmacological inhibition of Notch signaling regresses pre-established abdominal aortic aneurysm	Scientific Reports	http://dx.doi.org/10.1038/s41598-019-49682-0	2019	Neekun, Sharma, Rishabh, Dev, Juan de Dios, Ruiz-Rosado, Santiago, Partida-Sanchez, Mireia, Guerau-de-Arellano, Pramod, Dhakal, Helena, Kuivaniemi, Chetan P., Hans	Yes
Strain Mapping From Four-Dimensional Ultrasound Reveals Complex Remodeling in Dissecting Murine Abdominal Aortic Aneurysms	Journal of Biomechanical Engineering	http://biomechanical.asmedigitalcollection.asme.org/article.aspx?doi=10.1115/1...	2019	Hannah L., Cebull, Arvin H., Soepriatna, John J., Boyle, Sean M., Rothenberger, Craig J., Goergen	Yes
Strain mapping from 4D ultrasound reveals complex remodeling in dissecting murine abdominal aortic aneurysms.	Journal of biomechanical engineering	https://doi.org/10.1115/1.4043075	2019	Hannah, Cebull, Arvin, Soepriatna, John, Boyle, Sean, Rothenberger, Craig, Goergen	Yes
Development and growth trends in angiotensin II-induced murine dissecting abdominal aortic aneurysms	Physiological Reports	https://doi.org/10.14814/phy2.13668	2018	A.R., Adelsperger, E.H., Phillips, H.S., Ibriga, B.A., Craig, L.A., Green, M.P., Murphy, C.J., Goergen	Yes
Impairment of an Endothelial NAD + -H 2 S Signaling Network Is a Reversible Cause of Vascular Aging	Cell	http://linkinghub.elsevier.com/retrieve/pii/S0092867418301521	2018	Abhirup, Das, George X., Huang, Michael S., Bonkowski, Alban, Longchamp, Catherine, Li, Michael B., Schultz, Lynn-Jee, Kim, Brenna, Osborne, Sanket, Joshi, Yuancheng, Lu, Jose Humberto, Treviño-Villarreal, Myung-Jin, Kang, Tzong-tyng, Hung, Brendan, Lee, Eric O., Williams, Masaki, Igarashi, James R., Mitchell, Lindsay E., Wu, Nigel, Turner, Zolt, Arany, Leonard, Guarente, David A., Sinclair	Yes
A critical role for macrophages in neovessel formation and the development of stenosis in tissue-engineered vascular grafts	The FASEB Journal	http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3236622&tool=pmcentre...	2011	N., Hibino, T., Yi, D. R., Duncan, A., Rathore, E., Dean, Y., Naito, A., Dardik, T., Kyriakides, J., Madri, J. S., Pober, T., Shinoka, C. K., Breuer	Yes
Cardiac Adaptation in a Murine Iliac Arteriovenous Fistula Model and the Impact of Sex and N-Acetylcysteine Supplementation	American Journal of Physiology-Heart and Circulatory Physiology	https://doi.org/10.1152/ajpheart.90253.2026	2026	Erik M., Anderson, Victoria R., Palzkill, Kyoungrae, Kim, Brian, Fazzone, Eric M., Kunz, Qiongyao, Hu, Yong, He, Kerri A., O'Malley, Scott A., Berceli, Terence E., Ryan, Salvatore T., Scali	No

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Cocktail Therapy Combining SGLT2 Inhibitor, Entresto, and Adipose-Derived Mesenchymal Stem Cells Prevents Abdominal Aortic Aneurysmal Complication Syndrome in Rodents	Acta Cardiologica Sinica	https://doi.org/10.6515/ACS.202609_42(5).20260101A	2026	Jiunn Jye, Sheu, Han Tan, Chai, Yi Ling, Chen, Sheung Fat, Ko, Pei Hsun, Sung, Hon Kan, Yip	No
Gut microbiota-derived caproic acid attenuates aging-associated arteriosclerosis	Journal of Cardiovascular Aging	https://doi.org/10.20517/jca.2026.41	2026	Yifei, Xie, Jinglong, Pang, Hao, Wu, Yiming, Hua, Zixuan, Meng, Rongkai, Qian, Ning, Ding	No
Deciphering the Immune Landscape of Abdominal Aortic Aneurysm: A Machine Learning and Cross-Species Validated Multi-Omics Approach	Journal of Inflammation Research	https://doi.org/10.2147/JIR.S622559	2026	Minyong, Peng, Menglin, Nie, Yida, Cao, Qiulei, Liu, Chenxu, Xing, Xiaorui, Li, Yongjun, Li, Zhiyuan, Wu, Wayne W., Zhang	No
Increased Disarray of Extracellular Matrix Collagen-I Fiber Network and Compromised Biomechanics in Aortae From Marfan-Syndrome Mice Assessed Through Combined Opto-Biomechatronics	Advanced Science	https://doi.org/10.1002/advs.77549	2026	Dominik, Schneidereit, Anika, Nagel, Vanessa I.T., Zwaans, Laureen, Schurr, Jonas, Ahr, Michael, Haug, Anna, Piluso, Alexandra, Sporkova, Matthias, Karck, Andreas H., Wagner, Oliver, Friedrich	No
The NOR-1/SPP1/OPN axis as a driver of abdominal aortic aneurysm.	Translational research : the journal of laboratory and clinical medicine	http://www.ncbi.nlm.nih.gov/pubmed/42790627	2026	Paula, Vázquez-Sufuentes, Judith, Alonso, Rafael, Almendra-Pegueros, Carme, Ballester-Servera, Julián, García-Aranda, Laura, Martín-Fernández, Irene, Corrales, Meritxell, Nus, Francesc, Jiménez-Altayó, Francisco, Vidal, Cristina, Rodríguez, José, Martínez-González	No
Shenzhu Guanxin formula alleviates atherosclerosis in rats via PI3K/Akt pathway inhibition: a comparative study of decoction and granule forms	American Journal of Translational Research	https://doi.org/10.62347/padh7084	2026	Yibei, Xie, Cuicui, Meng, Shuangmei, Li, Zijie, Huang, Shujun, Yang, Liying, Pei, Wan, Li, Danping, Xu, Tong, Wang	No
Chemerin knockout reveals sex difference in the role of chemerin in blood pressure and vascular remodeling	American journal of physiology. Heart and circulatory physiology	https://doi.org/10.1152/ajpheart.00152.2026	2026	Emma, Wabel, Hannah, Garver, Teresa, Krieger-Burke, Fang, Xie, Lin, Zeng, Adam, Mullick, Gregory D., Fink, Stephanie W., Watts	No
NIR-II photoacoustic/Raman multimodal imaging for early detection of arteriovenous fistula fibrosis	Chemical Engineering Journal	https://doi.org/10.1016/j.cej.2026.180003	2026	Xiaobei, Cai, Xinyi, Liang, Youyi, Zhang, Yaning, Qin, Taoxia, Wang, Xiaoli, Liu, Yuanyuan, Qiu, Huan, Liu, Lin, Jin, Zeyu, Xiao, Kai, Cui, Guiying, Li	No
Impact of aging on neck vasculature and brain biochemistry in female mice	Physiological Reports	https://doi.org/10.14814/phy2.71059	2026	Allison R., Jones, Amin, Jarrahi, Kylee, Karpowich, Ella Grey, Moody, Lily, Renner, Lindsay P., Brown, Caitlin M., Tressler, A. Colleen, Crouch	No
Exacerbated expansive vascular remodeling due to disturbed flow in male mice overexpressing protein disulfide isomerase-<scp>A1</scp>	Physiological Reports	https://physoc.onlinelibrary.wiley.com/doi/10.14814/phy2.71088	2026	Júlia Martins Felipe, de Souza, Tiphany Coralie, De Bessa, Amanda de Almeida, Silva, Carolina Gonçalves, Fernandes, Leonardo Yuji, Tanaka, Francisco Rafael Martins, Laurindo	No
PM2.5 promotes the phenotypic transition of vascular smooth muscle cells in atherosclerosis by activating pro-ferroptotic signaling via DRP1/PINK1/Parkin-dependent mitophagy	Ecotoxicology and Environmental Safety	https://doi.org/10.1016/j.ecoenv.2026.120354	2026	Mengqi, Zou, Tianyu, Lu, Bo, Liu, Haotian, Wang, Delong, Lin, Yibiao, Lu, Song, Yuan, Lei, Bao, Yujie, Niu, Yaxian, Pang, Rong, Zhang	No
Fibroblast Growth Factor 7 Limits Fibroblast-Driven Matrix Remodeling in Abdominal Aortic Aneurysm	Cardiovascular Drugs and Therapy	https://doi.org/10.1007/s10557-026-07912-4	2026	Tao, Wang, Qiang, Wang, Long, Zhou, Kai Chuang, Ye, Siyuan, Liang	No

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Hyperlipidemia induces hippocampal inflammation and loss of vascularity and can be rescued by silencing RIPK1	Scientific Reports	https://doi.org/10.1038/s41598-026-54533-w	2026	Jonathan, Salazar-Leon, Moises, Freitas-Andrade, Violeta, Guadarrama-Perez, Serena, Solari, Abagael, Hudak, Cameron, Stotts, Nancy, Simon, Michèle, Geoffrion, Sue, Murray, Ruth, Slack, Baptiste, Lacoste, Katey J, Rayner	No
Molecular Mechanisms of Indoor Environmental Pollution tt-DDE-Induced Blood Pressure Elevation and the Protective Role of Human-Specific Gene CHRFAM7A	Environment & Health	https://doi.org/10.1021/envhealth.5c00703	2026	Siwen, Li, Ying, Su, Peng, Fang, Shuzi, Ye, Yu, Yuan, Lemei, Liu, Junchang, Wang, Fang, Xiao	No
Theaflavin alleviates thoracic aortic dissection by disrupting the interaction between microtubule affinity-regulating kinase 4 and NLRP3 to inhibit inflammasome assembly	Phytomedicine	https://doi.org/10.1016/j.phymed.2026.158502	2026	Xing, Chen, Shuying, Xu, Tianhao, Gu, Jintao, Qian, Junhao, Zhang, Yong, Deng, Zhihua, Wang, Jiahui, Wang, Xinglong, Tang, Chuiyu, Kong, Qing, Zhou	No
Protocol for inducing deep vein thrombosis in C57BL/6J mice using the inferior vena cava stenosis model	STAR Protocols	https://doi.org/10.1016/j.xpro.2026.104665	2026	Aman, Damara, Santiago, Canon, Magdalena L., Bochenek, Katrin, Schäfer, Fatemeh, Shahneh	No
Aortic Segments-Depending Hypertensive Remodeling Is Driven by Mitochondrial Fusion Dysfunction	FASEB Journal	https://doi.org/10.1096/fj.202503667R	2026	Alexis, Richard, Alicia Baptista, Vicente, Clara, Gourhand, Antoine, Ducroix, Pauline, Robert, Bertrand, Toutain, Linda, Grimaud, Emilie, Vessières, Agnès, Toutain-Barbelivien, Guy, Lenaers, Juan Manuel Chao, de la Barca, Olivier, Fouquet, Daniel, Henrion, Céline, Fassot, Laurent, Loufrani	No
Aortic asprosin overexpression does not ameliorate disease pathophysiology in a murine model of Marfan syndrome	Scientific Reports	https://doi.org/10.1038/s41598-026-59187-2	2026	Prithviraj Manohar Vijaya, Shetty, Andrea, Matzen, Susanne, Hille, Sabine, Michalewski, Henrike, Witthaus, Marie, Noormalal, Fady, Marcous, Yousef, Morcos, Tarik, Bozoglu, Wiebke, Sommer, Gregor, Warnecke, Christian, Kupatt, Andreas H., Wagner, Regina, Scherließ, Derk, Frank, Gerhard, Sengle, Oliver J., Müller, Anca, Kliesow Remes	No
G6PD inhibition prevents abdominal aortic aneurysm formation in mice induced by Ang II plus high salt	Atherosclerosis	https://doi.org/10.1016/j.atherosclerosis.2026.120835	2026	Zhihui, Wang, Yang, Shi, Dou, Shi, Hongyu, Deng, Jinyang, Zhang, Yuhan, Zhang, Xing, Liu, Xianxian, Wu, Zhiwei, Yang	No
Chromobox 3 assembles an epigenetic complex contributing to cystathionine γ-lyase–mediated protection against aortic aneurysm/dissection	Nature Communications	https://doi.org/10.1038/s41467-026-74048-2	2026	Ying, Zhao, Changting, Cui, Huimin, Gao, Yan, Yao, Yaping, Niu, Ling, Cheng, Xiaodie, Shao, Haizeng, Zhang, Yuan, Wang, Yuanzhen, Lin, Zengxiang, Dong, He, Wu, Zhenzhen, Chen, Liming, Yang, Bin, Geng	No

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Fibronectin-induced overactivation of αVβ3-PI3K-PIP3-PDK1-ILK signaling drives aortic disease in Marfan syndrome	Nature Communications	https://doi.org/10.1038/s41467-026-74707-4	2026	Iván, Alarcón-Ruiz, María Jesús, Ruiz-Rodríguez, Sara, Martínez-Martínez, Marta, Toral, Noelia, Martín-Bermejo, Sergio, Mateos-García, Teresa, Gil-Ruiz, Elías, Herrero-Galán, María José, Méndez-Olivares, Dolores, López-Maderuelo, Carolina, Gutiérrez-Martínez, Cristina, Clemente, Alejandro, Clemente-Manteca, Alberto, H-Alcántara, Andrea, Guala, Arturo, Evangelista, Gisela, Teixido-Tura, Diego, Rodríguez-Puyol, Juan Francisco, Nistal, Jorge, Alegre-Cebollada, Jesús, Vázquez, Juan, Duarte, Juan Miguel, Redondo, Miguel R., Campanero	No
The ADP-ribosyltransferases 3 (ART3) is a novel suppressor of pathological cardiac hypertrophy by ribosylating ITGA7	Acta Pharmaceutica Sinica B	https://doi.org/10.1016/j.apsb.2026.06.053	2026	Yilei, Meng, Sangyu, Hu, Fang, Lin, Yuping, Zhu, Yingying, Xiong, Yizhuo, Sun, Qin, Lin, Mingxing, Lu, Na, Yi, Tao, Xiao, Hanrui, Wang, Jie, Sheng, Ye, Xu, Chenyu, Li, Cuimei, Zhao, Haojie, Lu, Agapios, Sachinidis, Li, Li, Luying, Peng	No
Far-infrared irradiation attenuates vessel contraction by activating SERCA2 through disruption of SERCA2 and PLN interaction	PLOS ONE	https://doi.org/10.1371/journal.pone.0339066	2025	Yun Jin, Hwang, So Young, Park, Jung Hyun, Park, Du Hyong, Cho	No
Exercise attenuates perivascular adipose tissue sympathetic innervation and regulates arterial stiffness in obese rats	Sports Medicine and Health Science	https://doi.org/10.1016/j.smhs.2026.05.002	2026	Niujin, Shi, Jingbo, Xia, Lianwei, Mu, Chaoge, Wang, Wenhao, Liang, Jie, Zhou, Lidan, Chen, Linyu, Peng, Ran, Cheng, Mengsi, Yan, Linjie, Shu, Junhao, Huang, Min, Hu, Jingwen, Liao	No
Cerebral arteries in mice with sickle cell disease are exposed to larger areas of low wall shear stress	American Journal of Physiology - Heart and Circulatory Physiology	https://doi.org/10.1152/ajpheart.00056.2026	2026	Andre R., Montes, Christian P., Rivera, Samuel X., Zhang, Hannah Song, Lee, Yunlong, Huo, Manu O., Platt	No
BET-induced metabolic reprogramming fuels inflammation at the vascular-fat interface in mice and patients with cardiometabolic disease	Cell Reports	https://doi.org/10.1016/j.celrep.2026.117365	2026	Alessandro, Mengozzi, Sarah, Costantino, Alessia, Mongelli, Emiliano, Duranti, Shafeeq A., Mohammed, Era, Gorica, Federica, Cappelli, Marialucia, Telesca, Silvia, Armenia, Thorsten, Hornemann, Andreas, Hulsmeier, Carolina, de Ciuceis, Claudia, Agabiti-Rosei, Chiara, Ippolito, Rosario, Bellini, Nicola Riccardo, Pugliese, Christian M., Matter, Omer, Dzemali, Stefano, Masi, Stefano, Taddei, Frank, Ruschitzka, Agostino, Virdis, Francesco, Paneni	No
Mechanical loading-induced bone formation is associated with increased blood velocity and vascular canal bone porosity, with localized vascular adaptation	Journal of Bone and Mineral Research	https://academic.oup.com/jbmr/advance-article/doi/10.1093/jbmr/zjag076/8672022	2026	Taylor, deVet, Mahmoud S, Moussa, Hanna, Gonzalez, Paul, Zaslansky, Lorraine E, Chalifour, Svetlana V, Komarova, Bettina M, Willie	No
Stent treatment improves cerebral microcirculatory disorder and blood–brain barrier function in internal carotid artery stenosis via intercellular adhesion molecule 1 modulation	Journal of Cell Communication and Signaling	https://doi.org/10.1002/ccs3.70058	2025	Kuo, Li, Chuansuo, Zhang, Li xuan, Wang, Xiaoxuan, Wang, Ruyue, Wang	No

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Pharmacological Enhancement of Integrated Stress Response Confers Protection in Calcific Aortic Valve Disease	JACC: Basic to Translational Science	https://doi.org/10.1016/j.jacbts.2025.101433	2026	Libo, Wang, Xulei, Duan, Huibing, Liu, Fei, Lin, Chaoyuan, Zhou, Katrin, Schröder, Ajay M., Shah, Guoan, Zhao, Min, Zhang	No
Cardiovascular Effects of Early and Postponed Statin Treatment After Ovariectomy in Prediabetic Rat	Physiological Research	https://www.biomed.cas.cz/physiolres/pdf/2026/75_245.pdf	2026	T, Hlinka, M, Huttl, H, Malinska, I, Markova, D, Miklankova, H, Bartuskova, J, Pitha	No
Magnetically-Induced Suppression of Oxidative Stress Prevents Venous Thrombosis	Advanced Science	https://doi.org/10.1002/advs.202513299	2025	Nana, Zhang, Yirong, An, Shiran, Tao, Shenao, Qu, Minge, Wu, Guantong, Fang, Ziqing, Chen, Weilun, Song, Haoze, Leng, Rongqian, Wu, Yi, Lyu, Xiaoli, Liu, Dinghui, Dong	No
Melatonin attenuates atherosclerotic plaque vulnerability through SIRT6-dependent regulation of vascular smooth muscle cells senescence	Redox Biology	https://doi.org/10.1016/j.redox.2025.103939	2025	Yue, Wang, Wenxin, Zhao, Leli, Zhang, Pengrong, Guo, Yi, Zou, Zhenbai, Qin, Yuan, Wang, Xiaofan, Wu	No
Increased pulmonary blood flow leads to alveolar dysplasia during the early postnatal developmental stage	Cell and Bioscience	https://doi.org/10.1186/s13578-025-01502-x	2025	He, Zhang, Sixie, Zheng, Zheng, Wang, Yingying, Xiao, Yuqing, Hu, Debao, Li, Qing, Cui, Chenxi, Liu, Yiting, Xue, Junhua, Wu, Sijuan, Sun, Lincai, Ye	No
Mitochondrial Functional Capacity Is Impaired in Angiotensin II-Infused Mice and Not Recovered by Metformin	Biomedicines	https://doi.org/10.3390/biomedicines14040759	2026	Amanda, Balboa Ramilo, Kevin, Mani, Anders, Wanhainen, Malou, Friederich-Persson, Dick, Wågsäter	No
Flexible Ultrasound Patch for Noninvasive, Targeted Anti-Angiogenic Therapy of Unstable Carotid Plaques	Annals of Biomedical Engineering	https://doi.org/10.1007/s10439-026-04123-8	2026	Jie, Hu, Mingke, Jiao, Chenchen, Tang, Ping, Liang, Jingwei, Tang, Li, Wan, Jimei, Chen, Rui, Li	No
Introducing ARONG, A 3D Reconstruction Method for Highly Deformed Histology	Journal of Imaging Informatics in Medicine	https://doi.org/10.1007/s10278-026-01905-3	2026	Yurim, Lee, Kwangok P., Nickel, Maxwell J., Kiernan, Rashid, Al Mukaddim, Yuming, Liu, Viktor, Mitchell, Tenzin, Ngawang, Shahriar, Salamat, Stephanie M., Wilbrand, Melissa, Graham, Kevin W., Eliceiri, Randall J., Kimple, Robert J., Dempsey, Tomy, Varghese	No
Elevated asprosin in postmenopause is associated with vasculometabolic complications	American journal of physiology. Heart and circulatory physiology	https://doi.org/10.1152/ajpheart.00042.2026	2026	Nefia, Chacko, Mohit, Shah, Reia, Thomas, Christian, Jude-Aspiras, Akinobu, Watanabe, Maria Alicia, Carrillo-Sepulveda	No
Cross-species single-cell transcriptomic analysis unveils conserved myeloid signatures in abdominal aortic aneurysm: implications for therapeutic targeting	International Journal of Surgery	https://journals.lww.com/10.1097/JS9.0000000000004952	2026	Zhaoxuan, Zhang, Xiaoxu, Zhang, Xu, Guo, Zhenyong, Yang, Yun, Li, Jamol, Uzokov, Mario, D'Oria, Yuemeng, Li, Azad, Hussain, Qingsheng, Lu, Jian, Zhang, Yanshuo, Han	No
PHB2 ameliorates ferroptosis and aortic aneurysm/dissection through NEDD4L-dependent ubiquitination of NCOA4	Redox Biology	https://doi.org/10.1016/j.redox.2026.104114	2026	Shengjun, Xiong, Jie, Lin, Ying, An, Yuxin, Du, Yiran E., Li, Zunhui, Du, Rongjun, Zou, Miyesaier, Abudureyimu, Junbo, Ge, Yingmei, Zhang, Jun, Ren	No
CircEif3c/miR-96–5p/PHF20L1/MEOX2 axis in perivascular preadipocyte exosomes mediates fibroblast dysfunction and vascular remodeling	Non-coding RNA Research	https://doi.org/10.1016/j.ncrna.2026.01.006	2026	Yixuan, Liu, Peiqing, Tian, Shuaiyong, Zhang, Jiayu, Wang, Ye, Zhang, Shuxin, Ge, Qinghai, Wang, Peng, Wang, Juan, Zhang, Ping, Liu	No

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A foam cell-targeted lipophagy restoration strategy stabilizes vulnerable atherosclerotic plaques	Bioactive Materials	https://doi.org/10.1016/j.bioactmat.2026.02.041	2026	Heng, Li, Yusheng, Qin, Jianhong, Zhang, Xinlin, Guo, Xiaolin, Hu, Danlei, Sun, Yue, Zhao, Sergio, Bernardini, Daqian, Xu, Peng, Jiang, Hong, Zhang, Yang, Luo	No
Expanding clones, expanding aneurysms through macrophage-to-osteoclast differentiation	The Journal of clinical investigation	https://doi.org/10.1172/JCI206748	2026	Jessica A., Regan, Svati H., Shah	No
Macrophage-derived CCL20 promotes abdominal aortic aneurysm progression via lymphocytes CCR6	Frontiers in Immunology	https://doi.org/10.3389/fimmu.2026.1780720	2026	Qingnan, Ren, Tianyong, Sun, Song, Shen, Yuanbin, Cao, Li, Wei, Yang, Zhao, Fengxin, Wan, Ping, Sui, Ke, Xiao, Hao, Bai, Dachuan, Guo, Qi, He, Mengfan, Zhi, Jianmin, Yang, Jianjun, Jiang, Wencheng, Zhang, Xiangjiu, Ding	No
Focal adhesion proteins confer smooth muscle anoikis resistance and protection against aortic aneurysm and dissection		https://doi.org/10.1172/jci.insight.195291	2026	Zhenyuan, Zhu, Mingjun, Liu, Jianxin, Wei, Deepa, Suryanarayan, Parya, Behzadi, Robert, Edgar, Julie A, Phillippi, Cynthia, St Hilaire, Cristina, Espinosa-Diez, Delphine, Gomez	No
High-oxalate diet-induced kidney injury impairs AVF remodeling via hypertension, endothelial damage, and immune activation	Biochimica et Biophysica Acta - Molecular Basis of Disease	https://doi.org/10.1016/j.bbadis.2026.168212	2026	E. P., de Winter, N., Kruit, K., van Dijk, M. N., Nicese, H. A.B., Peters, M., Goel, E. J., Snijder, P. H.A., Quax, A. H., Baker, J. I., Rotmans, M. R., de Vries	No
Smooth Muscle Cell Specific Activity of SGK-1 Alters Aortic Stiffness and Abdominal Aortic Aneurysm Growth	Journal of Vascular Diseases	https://doi.org/10.3390/jvd5010010	2026	Matthew, Anderson, Leilei, Zhang, Mario, Figueroa, Victoria, Mattia, Alexander, Rovner, Vinitha, Uppalapati, Ying, Xiong, Rupak, Mukherjee, Jeffrey A., Jones, Jean Marie, Ruddy	No
miR-210 overexpression increases pressure overload-induced cardiac fibrosis	Non-coding RNA Research	https://doi.org/10.1016/j.ncrna.2025.01.009	2025	G., Zaccagnini, D., Baci, S., Tastsoglou, I., Cozza, A., Madè, C., Voellenkle, M., Nicoletti, C., Ruatti, M., Longo, L., Perani, C., Gaetano, A., Esposito, F., Martelli	No
Amlodipine improves aortic dysfunction in atherosclerotic mice	Biomedicine and Pharmacotherapy	https://doi.org/10.1016/j.biopha.2026.119073	2026	Sophia Marie, Rasch, Benedikt, Fels, Alexandra, Schmalohr, Luis Daniel Hernandez, Torres, Eva, Peschke, Olga Maria, Will, Jan Bernd, Hoevener, Leonie, Achner, Tobias, Klersy, Frauke, Spiecker, Marcel, Sauer, Carl, Vahldieck, Tobias, Reinberger, Urte, Matschl, Susanne, Hille, Oliver J., Müller, Zouhair, Aherrahrou, Kristina, Kusche, Walter, Raasch	No
Thrombospondin-4 is upregulated in abdominal aortic aneurysm: A vasoprotective response with potential therapeutic relevance	British Journal of Pharmacology	https://doi.org/10.1111/bph.70402	2026	Laia, Blanco-Casoliva, Lidia, Puertas-Umbert, Judith, Alonso, Rafael, Almendra-Pegueros, Saray, Varona, Mercedes, Camacho, Gemma, Arderiu, Lluís, Asmarats, Marta, Alegret, Jose, Martinez-Gonzalez, Cristina, Rodriguez	No
Comparison of 2D and 3D carotid plaque analysis and longitudinal in vivo ultrasound registration using 3D histology	Journal of Medical Imaging	https://www.spiedigitallibrary.org/journals/journal-of-medical-imaging/volume-1...	2026	Yurim, Lee, Maxwell J., Kiernan, Carol C., Mitchell, Shahriar, Salamat, Stephanie M., Wilbrand, Robert J., Dempsey, Tomy, Varghese	No

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Ultrasound imaging for assessing aortic phenotypes: A preclinical tool for measuring cardiac disease model progression and therapeutic effect	WFUMB Ultrasound Open	https://doi.org/10.1016/j.wfumbo.2024.100060	2024	James, Cao, Alex, Jayyosi, Jennifer, Nietupski, Giulio, Tomassy, Ingeborg M., Langohr, Michelle, Potter, Srinivas, Rao, Dinesh S., Bangari, Xiaoyou, Ying	No
Tea polyphenol nanoparticles enable targeted siRNA delivery and multi-bioactive therapy for abdominal aortic aneurysms	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-024-02756-2	2024	Zhen Wu, Peng, Zhang, Jie, Yue, Qingshan, Wang, Peipei, Zhuang, Shah, Jehan, Liyuan, Fan, Jiarun, Xue, Wenhu, Zhou, Haiyang, Wang	No
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DNA-sensing inflammasomes cause recurrent atherosclerotic stroke	Nature	https://doi.org/10.1038/s41586-024-07803-4	2024	Jiayu, Cao, Stefan, Roth, Sijia, Zhang, Anna, Kopczak, Samira, Mami, Yaw, Asare, Marios K., Georgakis, Denise, Messerer, Amit, Horn, Ruth, Shemer, Charlene, Jacqmarcq, Audrey, Picot, Jack P., Green, Christina, Schlegl, Xinghai, Li, Lukas, Tomas, Alexander, Dutsch, Thomas G., Liman, Matthias, Endres, Saskia R., Wernsdorf, Christina, Fürle, Olga, Carofiglio, Jie, Zhu, David, Brough, Inga, Zerr, Silke, Wunderlich, Annika, Spottke, Gabor, Petzold, Thomas G., Liman, Marios K., Georgakis, Matthias, Endres, Martin, Dichgans, Veit, Hornung, Martin, Dichgans, Denis, Vivien, Christian, Schulz, Yuval, Dor, Steffen, Tiedt, Hendrik B., Sager, Gerrit M., Grosse, Arthur, Liesz	No
Low-dose radiation promotes high-fat diet-induced atherosclerosis by activating cGAS signal pathway	Biochimica et Biophysica Acta - Molecular Basis of Disease	https://doi.org/10.1016/j.bbadis.2024.167443	2024	Xiaochang, Liu, Xin, Huang, Jinhua, Luo, Shuai Ning, Gao, Chenjun, Bai, Dafei, Xie, Shan Shan, Gao, Hua, Guan, Ruixue, Huang, Ping Kun, Zhou	No
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New antidepressant mechanism of Yueju Pill: Increasing ghrelin level by inhibiting gastric mTOR/S6K signaling pathway and sensitizing hippocampal GHS-R	Heliyon	https://doi.org/10.1016/j.heliyon.2024.e37038	2024	Zhentao, Zhang, Dan, Su, Meixizi, Lai, Yonggui, Song, Huizhen, Li, Ming, Yang, Genhua, Zhu, Hong, Liu, Zhifu, Ai	No
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A novel role for thioredoxin-related transmembrane protein TMX4 in platelet activation and thrombus formation	Journal of Thrombosis and Haemostasis	https://doi.org/10.1016/j.jtha.2024.09.007	2025	Zhenzhen, Zhao, Yucan, Wang, Aizhen, Yang, Yi, Lu, Xiaofeng, Yan, Meinan, Peng, Yue, Han, Chao, Fang, Depei, Wu, Yi, Wu	No
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Novel Metal-Free Nanozyme for Targeted Imaging and Inhibition of Atherosclerosis via Macrophage Autophagy Activation to Prevent Vulnerable Plaque Formation and Rupture	ACS Applied Materials and Interfaces	https://doi.org/10.1021/acsami.4c08671	2024	Lingjie, Wang, Xiaoqian, Zhang, Hongrong, Zhang, Xiaozhe, Wang, Xiaofeng, Ren, Wei, Bian, Caiyun, Shi, Jingying, Wang, Liping, Li, Ruiping, Zhang, Hua, Zhang	No
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Hydrogen sulfide attenuates disturbed flow-induced vascular remodeling by inhibiting LDHB-mediated autophagic flux	Redox Biology	https://doi.org/10.1016/j.redox.2024.103456	2025	Xia, Wang, Xiying, Huang, Yongya, Zhang, Huanhuan, Huo, Guo, Zhou, Linghong, Shen, Long, Li, Ben, He	No
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Combined injection of pristane and Bacillus Calmette-Guerin Vaccine successfully establishes a lupus model with atherosclerosis	Experimental Cell Research	https://doi.org/10.1016/j.yexcr.2024.114381	2025	Chunru, Jiang, Zhenduo, Zhu, Yu, Tai, Meiyue, Lu, Huijuan, Cheng, Tiantian, Su, Paipai, Guo, Ruhong, Fang, Feng, He, Mingli, Ge, Qiuyun, Guan, Yongsheng, Han, Shangxue, Yan, Wei, Wei, Qingtong, Wang	No
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Mitochondrial metabolic maturation in postnatal right ventricle restricted by volume overload	Intractable and Rare Diseases Research	https://doi.org/10.5582/irdr.2024.01063	2025	Juan, Cao, Yingying, Xiao, Haifa, Hong, Zhongzhong, Chen, Wenjun, Qin	No
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MARCH5 ameliorates aortic valve calcification via RACGAP1-DRP1 associated mitochondrial quality control	Biochimica et Biophysica Acta - Molecular Cell Research	https://doi.org/10.1016/j.bbamcr.2025.119911	2025	Jialiang, Zhang, Yaoyu, Zhang, Wenhua, Lei, Jing, Zhou, Yanjiani, Xu, Zhou, Hao, Yanbiao, Liao, Fangyang, Huang, Mao, Chen	No

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Activation of AMP-activated Protein Kinase by Metformin Inhibits Dedifferentiation of Platelet-derived Growth Factor-BB-induced Vascular Smooth Muscle Cells to Improve Arterial Remodeling in Cirrhotic Portal Hypertension	CMGH	https://doi.org/10.1016/j.jcmgh.2025.101487	2025	Guangbo, Wu, Qiang, Fan, Min, Chen, Guqing, Luo, Zhenghao, Wu, Jinbo, Zhao, Jiayun, Lin, Chihao, Zhang, Hongjie, Li, Xiaoliang, Qi, Haizhong, Huo, Lei, Zheng, Meng, Luo	No
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