Title	Journal	Link	Publication date	References	Top Paper
Illumination of Hydroxyl Radical in Kidney Injury and High-Throughput Screening of Natural Protectants Using a Fluorescent/Photoacoustic Probe	Advanced Science	https://doi.org/10.1002/advs.202303926	2023	Han, Gao, Lei, Sun, Jiwei, Li, Qilin, Zhou, Haijun, Xu, Xiao Nan, Ma, Renshi, Li, Bo Yang, Yu, Jiangwei, Tian	Yes
Photoacoustic imaging of kidney fibrosis for assessing pretransplant organ quality	JCI Insight	http://insight.jci.org/articles/view/136995	2020	Eno, Hysi, Xiaolin, He, Muhannad N., Fadhel, Tianzhou, Zhang, Adriana, Krizova, Michael, Ordon, Monica, Farcas, Kenneth T., Pace, Victoria, Mintsopoulos, Warren L., Lee, Michael C., Kolios, Darren A., Yuen	Yes
Experimental imaging in orthotopic renal cell carcinoma xenograft models: comparative evaluation of high-resolution 3D ultrasonography, in-vivo micro-CT and 9.4T MRI	Scientific Reports	https://doi.org/10.1038/s41598-017-14759-1	2017	Johannes, Linxweiler, Christina, Körbel, Andreas, Müller, Eva, Jüngel, Roman, Blaheta, Joana, Heinzelmann, Michael, Stöckle, Kerstin, Junker, Michael D., Menger, Matthias, Saar	Yes
Performances of a Pristine Graphene-Microbubble Hybrid Construct as Dual Imaging Contrast Agent and Assessment of Its Biodistribution by Photoacoustic Imaging	Particle & Particle Systems Characterization	http://doi.wiley.com/10.1002/ppsc.201800066	2018	Yosra, Toumia, Barbara, Cerroni, Philippe, Trochet, Savino, Lacerenza, Letizia, Oddo, Fabio, Domenici, Gaio, Paradossi	Yes
High Resolution Ultrasonography for Assessment of Renal Cysts in the PCK Rat Model of Autosomal Recessive Polycystic Kidney Disease	Kidney and Blood Pressure Research	http://www.karger.com/?doi=10.1159/000443420	2016	Sarika, Kapoor, Daniel, Rodriguez, Katharyn, Mitchell, Rudolf P., Wüthrich	Yes
Functional polycystin-1 dosage governs autosomal dominant polycystic kidney disease severity	Journal of Clinical Investigation	http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3484456/	2012	Katharina, Hopp, Christopher J., Ward, Cynthia J., Hommerding, Samih H., Nasr, Han-Fang, Tuan, Vladimir G., Gainullin, Sandro, Rossetti, Vicente E., Torres, Peter C., Harris	Yes
Comprehensive Landscape of Post-Translational Modification Alterations in Nephrolithiasis Revealing Activation of Multiple Cell Death Pathways	Journal of Proteome Research	https://pubs.acs.org/jprobs/article/doi/10.1021/acs.jproteome.6c00230/5252442/C...	2026	Yining, Dong, Mengya, Zhang, Yang, Xu, Jianchao, Zhang, Changjuan, Wang, Xiaolu, Zhang, Yongliang, Ni	No
Endothelial cell-specific knockout of ATG5 ameliorates inflammation and renal fibrosis by regulating pyroptosis	Inflammation Research	https://doi.org/10.1007/s00011-026-02272-z	2026	Yu, Huang, Shu, Wen, Li, Chen, Yujiu, Gao, Shufan, Xu, Chen, Fang, Jian, Tang, Yue, Yuan, Ying, Feng, Shinan, Ma, Shan, Luo, Qinghong, Zhang, Xiuyan, Shi, Xuzhi, Ruan, Xingrong, Guo	No
Spatiotemporal Deep Video-Phenomapping Decodes Microvascular Rarefaction in Renovascular Hypertension: A Multi-Modal Study Integrating Spatial Transcriptomics and Mitochondrial Pyroptosis	Research	https://doi.org/10.34133/research.1339	2026	Lingjie, Ju, Ri, Ji, Hong, Meng, Li Peng, li, Jiaxue, Du, yang, wang, xuehua, xi, luzeng, chen, ying, xiong, yongjun, li, pintong, huang, bo, zhang, junhong, ren	No

Title	Journal	Link	Publication date	References	Top Paper
Hypoxia shapes both therapeutic response and resistance in metastatic clear cell renal cell carcinoma	Cancer Cell	https://doi.org/10.1016/j.ccell.2026.05.007	2026	Lynda, Vuong, Andrew E., Cornish, Jennifer, Pfeil, Yash, Khandwala, Hui, Jiang, Doris X.T., Zheng, Eduardo A., Mascareno, Nicole, Rittenhouse, Phillip M., Rappold, Josef, Leibold, Erich A., Sabio, Kate, Weiss, Carlene, Gonzalez, Liangliang, Ji, Jing, Zhang, Mojca, Adlesic, Oguz, Akin, Jessica, Flynn, Chirag, Krishna, Andrea, Lopez Sanmiguel, Rebecca A., Sager, Tiak J., Tan, Alejandro, Sanchez, Renzo G., Di Natale, Kyle A., Blum, Paul, Russo, Jonathan A., Coleman, Ian J., Frew, Diego, Chowell, Ying Bei, Chen, David B., Solit, Irina, Ostrovnaya, Robert J., Motzer, Martin H., Voss, Ritesh R., Kotecha, Timothy A., Chan, Hartland W., Jackson, Fengshen, Kuo, Ming O., Li, A. Ari, Hakimi	No
L-kynurenine or nicotinamide supplementations mitigate uterine decidualization impairments during early pregnancy of uninephrectomized mice	Frontiers in Physiology	https://doi.org/10.3389/fphys.2026.1774244	2026	Yuye, Wang, Qing, Ma, Meitong, Chen, Yukako, Kayashima, Nobuyo, Maeda-Smithies, Feng, Li	No
A urea-activated nanocarrier for site-specific SGLT2 inhibition and metabolic rescue against cardiovascular-kidney-metabolic syndrome	Nature Communications	https://www.nature.com/articles/s41467-026-71424-w	2026	Xuechun, Ren, Di, Gao, Rong, Yun, Xinyang, Liu, Chenna, Di, Zeyu, Hu, Xinyuan, Zhang, Zhongmin, Tian, Zhe, Yang	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
Quantification of Kidney Inflammation Using Nanobubble-mediated Contrast Enhanced Ultrasound	Nanotheranostics	https://doi.org/10.7150/ntno.126443	2026	Niloufar Rostam, Shirazi, Xiaolin, He, Dana, Dranka, Omar, Falou, Eno, Hysi, Agata A., Exner, Darren, Yuen, Michael C., Kolios	No
Exercise sensitizes the pressure diuresis response: shifting immune landscapes may underlie renal adaptations	American journal of physiology. Renal physiology	https://doi.org/10.1152/ajprenal.00218.2025	2025	Steven P., Jones, Nathan, O'Leary, Ernesto, Pena Calderin, Richa, Singhal, Jason, Hellmann, Celio, Damacena de Angelis, Kenneth R., Brittian, Paul A., Welling, Yibing, Nong, Sophia M., Sears	No
Carnosol modulates mPGES-1/PPAR-γ biological axis: from in silico to in vivo clinical imaging and investigations	Biomedicine and Pharmacotherapy	https://doi.org/10.1016/j.biopha.2025.118407	2025	Erica, Gazzillo, Anella, Saviano, Federica, Raucci, Gian Marco, Casillo, Marina, Russo, Maria, Donniacuo, Vittorio, Patanè, Francesca, Iacobellis, Gianluigi, Lauro, Stefania, Terracciano, Maria Chiara, Brunese, Ines, Bruno, Maria Giovanna, Chini, Barbara, Rinaldi, Alfonso, Reginelli, Salvatore, Cappabianca, Francesco, Maione, Giuseppe, Bifulco	No

Title	Journal	Link	Publication date	References	Top Paper
Novel multifunctional targeted nanozyme as an ultrasound contrast agent for real-time monitoring and treatment of congenital hydronephrosis renal fibrosis	Journal of Nanobiotechnology	https://jnanobiotechnology.biomedcentral.com/articles/10.1186/s12951-025-03618-1	2025	Qian, Zhao, Di, Zhang, Keyan, Chen, Feifei, Sun, Yixin, Chen	No
Indole-3-carboxaldehyde alleviates cisplatin-induced acute kidney injury in mice by improving mitochondrial dysfunction via PKA activation	Food and Chemical Toxicology	https://doi.org/10.1016/j.fct.2024.114546	2024	Peipei, Yuan, Aozi, Feng, Yaxin, Wei, Saifei, Li, Yang, Fu, Xiao, Wang, Menghuan, Guo, Weisheng, Feng, Xiaoke, Zheng	No
Ultra high frequency ultrasound enables real-time visualization of blood supply from chorioallantoic membrane to human autosomal dominant polycystic kidney tissue	Scientific Reports	https://doi.org/10.1038/s41598-024-60783-3	2024	Jan, Schueler, Jonas, Kuenzel, Anna, Thuesing, Eric, Pion, Rose Yinghan, Behncke, Rene, Haegerling, Dieter, Fuchs, Andre, Kraus, Bjoern, Buchholz, Boqiang, Huang, Dorit, Merhof, Jens M., Werner, Katharina M., Schmidt, Christina, Hackl, Thiha, Aung, Silke, Haerteis	No
Toll-like receptor 4 mutation mitigates gut microbiota-mediated hypertensive kidney injury	Pharmacological Research	https://doi.org/10.1016/j.phrs.2024.107303	2024	Suravi, Majumder, Sathnur B., Pushpakumar, Hebah, Almarshood, Rosemary, Ouseph, Dibson D., Gondim, Venkatakrishna R., Jala, Utpal, Sen	No
SGLT2 inhibitor downregulated oxidative stress via activating AMPK pathway for cardiorenal (CR) protection in CR syndrome rodent fed with high protein diet	Journal of Molecular Histology	https://doi.org/10.1007/s10735-024-10233-1	2024	Chih Chao, Yang, Kuan Hung, Chen, Ya, Yue, Ben Chung, Cheng, Tsuen Wei, Hsu, John Y., Chiang, Chih Hung, Chen, Fanna, Liu, Jie, Xiao, Hon Kan, Yip	No
Combined UTMD-Nanoplatform for the Effective Delivery of Drugs to Treat Renal Cell Carcinoma	International Journal of Nanomedicine	https://doi.org/10.2147/IJN.S459960	2024	Ting, Dai, Qimeihui, Wang, Lingyu, Zhu, Qiang, Luo, Jiayu, Yang, Xia, Meng, Hui, Wang, Zhixia, Sun	No
Pre-transplant kidney quality evaluation using photoacoustic imaging during normothermic machine perfusion	Photoacoustics	https://doi.org/10.1016/j.pacs.2024.100596	2024	Anton V., Nikolaev, Yitian, Fang, Jeroen, Essers, Kranthi M., Panth, Gisela, Ambagtsheer, Marian C., Clahsen-van Groningen, Robert C., Minnee, Gijs, van Soest, Ron W.F., de Bruin	No
STING Promotes the Progression of ADPKD by Regulating Mitochondrial Function, Inflammation, Fibrosis, and Apoptosis	Biomolecules	https://doi.org/10.3390/biom14101215	2024	Jiao, Wu, Shasha, Cheng, Geoffray, Lee, Ewud, Agborbesong, Xiaoyan, Li, Xia, Zhou, Xiaogang, Li	No
High-frequency ultrasound for assessing the renal characteristics of spontaneous type 2 diabetes mellitus db/db mice	Experimental Animals		2025	Jiazhi, Cao, Hao, Feng, Lutong, Li, Wenwu, Ling, Hong, Wang	No
RFImageNet framework for segmentation of ultrasound images with spectra-augmented radiofrequency signals	Ultrasonics	https://doi.org/10.1016/j.ultras.2024.107498	2025	Zhun, Xie, Jiaqi, Han, Nan, Ji, Lijun, Xu, Jianguo, Ma	No
Apelin/APJ increased renal blood flow through endothelial BKCa channel induced p-eNOS and ET-1 in diabetic conditions	Peptides	https://doi.org/10.1016/j.peptides.2024.171333	2025	Mingcong, Huang, Jing, Chang, Yu, Liu, Jiming, Yin, Xiangjun, Zeng	No
An enzyme-mimicking reactive oxygen species scavenger targeting oxidative stress-inflammation cycle ameliorates IR-AKI by inhibiting pyruvate dehydrogenase kinase 4	Theranostics	https://doi.org/10.7150/thno.101229	2024	Wenfang, He, Chenguang, Ding, Ting, Lin, Binqi, Wang, Wenjing, Wang, Zhichao, Deng, Taian, Jin, Yiwei, Shang, Danna, Zheng, Ting, Bai, Mingzhen, Zhang, Runqing, Li, Juan, Jin, Qiang, He	No
Febuxostat therapy improved the outcomes of cardiorenal syndrome rodent through alleviating xanthine oxidase-induced oxidative stress and mitochondrial dysfunction	International Journal of Biological Sciences	https://doi.org/10.7150/ijbs.99194	2025	Chih Chao, Yang, Ya, Yue, Yi Ling, Chen, John Y., Chiang, Yi Ting, Wang, Chi Ruei, Huang, Ben Chung, Cheng, Tsuen Wei, Hsu, Hon Kan, Yip	No

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Mild and reversible nephrotoxicity following repeated administration of damnacanthal in nude mice	Toxicology Reports	https://linkinghub.elsevier.com/retrieve/pii/S2214750025002069	2025	Noppanan, Kotsaouppara, Thunyatorn, Yimsoo, Worapapar, Treesuppharat, Jeeraphong, Thanongsaksrikul, Potjanee, Srimanote	No
A first-in-human study of quantitative ultrasound to assess transplant kidney fibrosis	Nature Medicine	https://doi.org/10.1038/s41591-024-03417-5	2025	Eno, Hysi, Jihye, Baek, Alexander, Koven, Xiaolin, He, Luisa, Ulloa Severino, Yiting, Wu, Kendrix, Kek, Shukai, Huang, Adriana, Krizova, Monica, Farcas, Michael, Ordon, Kai Ho, Fok, Robert, Stewart, Kenneth T., Pace, Michael C., Kolios, Kevin J., Parker, Darren A., Yuen	No
TRPC6-targeted dexamethasone nanobubbles with ultrasound-guided theranostics for adriamycin-induced nephropathy	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-025-03487-8	2025	Lin, Wu, Yang, Liu, Ziqi, Fu, Honglei, Guo, Kang, Liu, Jiafa, Ren, Zhimin, Huang, Fang, Yang, Huijuan, Mao	No
A novel glomerulopathy model demonstrates renal counterbalance via local angiotensin II regulation	Proceedings of the Japan Academy, Series B	https://doi.org/10.2183/pjab.101.025	2025	Kazuo, SAKAMOTO, Kunio, KAWANISHI, Jun-Dal, KIM, Masahiro, KOIZUMI, Shin-ichi, MUROI, Saori, TABARA, Akiyoshi, FUKAMIZU, Taiji, MATSUSAKA, Michio, NAGATA	No
Antineoplastic activity of a novel tri-specific single chain antibody targeting the hERG1/β1 integrin complex and TRAIL receptors	Molecular Cancer Therapeutics	https://doi.org/10.1158/1535-7163.mct-24-0646	2025	Claudia, Duranti, Jessica, Iorio, Chiara, Capitani, Tiziano, Lottini, Michele, Martinelli, Julia, Roosz, Nicole, Anderle, Tengku Ibrahim, Maulana, Peter M., Loskill, Rossella, Colasurdo, Cesare, Sala, Lara, Magni, Annarosa, Arcangeli	No
Extending the transmit and receive bandwidths of dual-frequency transducers towards clinical acoustic angiography: in vitro and in vivo studies	IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control	https://ieeexplore.ieee.org/document/11082757/	2025	Kathlyne Jayne B., Bautista, Emmanuel, Cherin, Jianhua, Yin, Elvira C., Vazquez Avila, F., Stuart Foster, Christine E.M., Demore, Paul A., Dayton	No
Nanobubbles based on repeated compression for contrast-enhanced ultrasound (CEUS) imaging of renal fibrosis	BIO Web of Conferences	https://www.bio-conferences.org/10.1051/bioconf/202518202012	2025	Chenyi, Zhang, Tiandong, Chen, Fang, Yang	No
Toll like receptor 2 mediated exacerbation of sepsis associated acute kidney injury by renal congestion in mice	Scientific Reports	https://doi.org/10.1038/s41598-025-05878-1	2025	Itaru, Nakamura, Minato, Umehara, Aya, Yagi-Tomita, Satomi, Yamamoto, Shinji, Sawai, Masashi, Nakamura, Atsushi, Minamida, Hiroko, Yamauchi-Sawada, Yasuto, Sunahara, Yayoi, Matoba, Natsuko, Okuno-Ozeki, Kunihiro, Nakai, Tomohiro, Nakata, Takashi, Kitani, Noriyuki, Yamashita, Kazumi, Komaki, Yuhei, Kirita, Keiichi, Tamagaki, Satoaki, Matoba, Tetsuro, Kusaba	No

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Injured tubule derived CCN1 exacerbates renal congestion-mediated acute kidney injury and fibrosis	Scientific Reports	https://doi.org/10.1038/s41598-025-05723-5	2025	Atsushi, Minamida, Tomohiro, Nakata, Ryo, Kurose, Shinji, Sawai, Masashi, Nakamura, Minato, Umehara, Hiroko, Yamauchi-Sawada, Yasuto, Sunahara, Yayoi, Matoba, Natsuko, Okuno-Ozeki, Itaru, Nakamura, Kunihiro, Nakai, Noriyuki, Yamashita, Yuhei, Kirita, Keiichi, Tamagaki, Satoaki, Matoba, Tetsuro, Kusaba	No
The protective effect of Bergamot Polyphenolic Fraction on reno-cardiac damage induced by DOCA-salt and unilateral renal artery ligation in rats	Biomedicine and Pharmacotherapy	https://doi.org/10.1016/j.biopha.2023.116082	2024	Cristina, Carresi, Antonio, Cardamone, Anna Rita, Coppoletta, Rosamaria, Caminiti, Roberta, Macrì, Francesca, Lorenzo, Federica, Scarano, Rocco, Mollace, Lorenza, Guarnieri, Stefano, Ruga, Saverio, Nucera, Vincenzo, Musolino, Micaela, Gliozzi, Ernesto, Palma, Carolina, Muscoli, Maurizio, Volterrani, Vincenzo, Mollace	No
Evaluation of renal ischemia–reperfusion injury using CEUS in mice	European Radiology Experimental	https://doi.org/10.1186/s41747-023-00392-3	2023	Zixin, Xu, Xinbao, Zhao, Ming, Huang, Qi, Liu, Libo, Liu, Junjiong, Zheng, Chao, Fang, Wen, Dong	No
Combining immunotherapy with high-dose radiation therapy (HDRT) significantly inhibits tumor growth in a syngeneic mouse model of high-risk neuroblastoma	Heliyon	https://doi.org/10.1016/j.heliyon.2023.e17399	2023	Shuobo, Boboila, Shunpei, Okochi, Debarshi, Banerjee, Sunjay, Barton, Cherease, Street, Ariela L., Zenilman, Qi, Wang, Robyn D., Gartrell, Yvonne M., Saenger, David, Welch, Cheng Chia, Wu, Angela, Kadenhe-Chiweshe, Darrell J., Yamashiro, Eileen P., Connolly	No
Repeated administration of adipose-derived mesenchymal stem cells added on beneficial effects of empagliflozin on protecting renal function in diabetic kidney disease rat	Biomedical Journal	https://doi.org/10.1016/j.bj.2023.100613	2023	Chih-Chao, Yang, Yi-Ling, Chen, Pei-Hsun, Sung, John Y., Chiang, Chih-Hung, Chen, Yi-Chen, Li, Hon-Kan, Yip	No
Tyrosine Kinase Inhibitors Diminish Renal Neoplasms in a Tuberous Sclerosis Model via induction of Apoptosis. Running Title: Inhibiting Mesenchymal Tumors is Therapeutic for LAM and TSC	Molecular Cancer Therapeutics	http://aacrjournals.org/mct/article-pdf/doi/10.1158/1535-7163.MCT-22-0224/33279...	2023	Uchenna, Unachukwu, Jarrod, Sonett, Denzel, Woode, Takayuki, Shiomi, Kiran, Chada, Jeanine M, D'Armiento	No
Metformin preconditioning protects against myocardial stunning and preserves protein translation in a mouse model of cardiac arrest	Journal of Molecular and Cellular Cardiology Plus	https://linkinghub.elsevier.com/retrieve/pii/S2772976123000041	2023	Cody A., Rutledge, Claudia, Lagranha, Takuto, Chiba, Kevin, Redding, Donna B., Stolz, Eric, Goetzman, Sunder, Sims-Lucas, Brett A., Kaufman	No
Effects of Large Extracellular Vesicles from Kidney Cancer Patients on the Growth and Environment of Renal Cell Carcinoma Xenografts in a Mouse Model	Current Issues in Molecular Biology	https://doi.org/10.3390/cimb45030163	2023	Matthieu, Ferragu, Luisa, Vergori, Vincent, Le Corre, Sarah, Bellal, Maria, del Carmen Martinez, Pierre, Bigot	No
SGLT2 inhibition potentiates the cardiovascular, renal, and metabolic effects of sGC stimulation in hypertensive rats with prolonged exposure to high-fat diet	American Journal of Physiology - Heart and Circulatory Physiology	https://doi.org/10.1152/ajpheart.00386.2021	2022	Virginia, Reverte, Francisca, Rodriguez, Lidia, Oltra, Juan M., Moreno, María T., Llinas, Courtney M., Shea, Chad D., Schwartzkopf, Emmanuel S., Buys, Jaime L., Masferrer, F., Javier Salazar	No

Title	Journal	Link	Publication date	References	Top Paper
T cell activation and IFNγ modulate organ dysfunction in LPS-mediated inflammation	Journal of Leukocyte Biology	https://doi.org/10.1002/JLB.4HI0921-492R	2022	Matthew D., Taylor, Tiago D., Fernandes, Omar, Yaipen, Cassidy E., Higgins, Christine A., Capone, Daniel E., Leisman, Ana, Nedeljkovic-Kurepa, Mabel N., Abraham, Mariana R., Brewer, Clifford S., Deutschman	No
Ulinastatin Improves Renal Microcirculation by Protecting Endothelial Cells and Inhibiting Autophagy in a Septic Rat Model	Kidney and Blood Pressure Research	https://doi.org/10.1159/000521648	2022	Tian, Li, Xiaojun, Ji, Jingfeng, Liu, Xinjie, Guo, Ran, Pang, Haizhou, Zhuang, Lei, Dong, Meili, Duan, Ang, Li	No
Curcumin alleviates hepatic steatosis by improving mitochondrial function in postnatal overfed rats and fatty L02 cells through the SIRT3 pathway	Food and Function	https://doi.org/10.1039/d1fo03752h	2022	Susu, Du, Xiaolei, Zhu, Nan, Zhou, Wen, Zheng, Wei, Zhou, Xiaonan, Li	No
SGLT2 inhibition potentiates the cardiovascular, renal, and metabolic effects of sGC stimulation in hypertensive rats with prolonged exposure to high-fat diet	American Journal of Physiology - Heart and Circulatory Physiology	https://doi.org/10.1152/ajpheart.00386.2021	2022	Virginia, Reverte, Francisca, Rodriguez, Lidia, Oltra, Juan M., Moreno, María T., Llinas, Courtney M., Shea, Chad D., Schwartzkopf, Emmanuel S., Buys, Jaime L., Masferrer, F., Javier Salazar	No
AXL targeting by a specific small molecule or monoclonal antibody inhibits renal cell carcinoma progression in an orthotopic mice model	Physiological Reports	https://doi.org/10.14814/phy2.15140	2021	Tony J., Chen, Piotr, Mydel, Małgorzata, Benedyk-Machaczka, Marta, Kamińska, Urszula, Kalucka, Magnus, Blø, Jessica, Furriol, Gro, Gausdal, James, Lorens, Tarig, Osman, Hans Peter, Marti	No
Liver steatosis is a component of the hepatocardiorenal syndrome provoked by a high-lipid diet and activation of Ang II pathways in rats		https://doi.org/10.20944/preprints202112.0193.v1	2021	Thuany, Crisóstomo, Marco A E, Pardal, Simone A, Herdy, Humberto, Muzi-filho, Debora B, Mello	No
Fructose plus High-Salt Diet in Early Life Results in Salt-Sensitive Cardiovascular Changes in Mature Male Sprague Dawley Rats	Nutrients	https://www.mdpi.com/2072-6643/13/9/3129	2021	Peter E., Levanovich, Charles S., Chung, Dragana, Komnenov, Noreen F., Rossi	No
Prussian blue-based theranostics for ameliorating acute kidney injury	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-021-01006-z	2021	Dong Yang, Zhang, Hengke, Liu, Kathy S., Zhu, Ting, He, Muhammad Rizwan, Younis, Chen, Yang, Shan, Lei, Jiayingzi, Wu, Jing, Lin, Junle, Qu, Peng, Huang	No
Loss of group ii metabotropic glutamate receptor signaling exacerbates hypertension in spontaneously hypertensive rats	Life	https://doi.org/10.3390/life11070720	2021	Julia Chu Ning, Hsu, Shinichi, Sekizawa, Ryota, Tochinai, Masayoshi, Kuwahara	No
A live single-cell reporter assay links intratumor heterogeneity to metastatic proclivity in Ewing sarcoma	Science Advances	https://doi.org/10.1126/sciadv.abf9394	2021	Tugba, Keskin, Beatrice, Rucci, Sandrine, Cornaz-Buros, Patricia, Martin, Carlo, Fusco, Liliane, Broye, Katarina, Cisarova, Elizabeth M., Perez, Igor, Letovanec, Stefano La, Rosa, Stephane, Cherix, Manuel, Diezi, Raffaele, Renella, Paolo, Provero, Mario L., Suvà, Ivan, Stamenkovic, Nicolò, Riggi	No
Renal neoplasms in tuberous sclerosis mice are neurocristopathies	iScience	https://doi.org/10.1016/j.isci.2021.102684	2021	Uchenna, Unachukwu, Takayuki, Shiomi, Monica, Goldklang, Kiran, Chada, Jeanine, D'Armiento	No
Chronic stimulation of group II metabotropic glutamate receptors in the medulla oblongata attenuates hypertension development in spontaneously hypertensive rats	PLOS ONE	http://dx.doi.org/10.1371/journal.pone.0251495	2021	Julia Chu-Ning, Hsu, Shin-ichi, Sekizawa, Ryota, Tochinai, Masayoshi, Kuwahara	No

Title	Journal	Link	Publication date	References	Top Paper
The effect of targeting Tie2 on hemorrhagic shock-induced renal perfusion disturbances in rats	Intensive Care Medicine Experimental	https://doi.org/10.1186/s40635-021-00389-5	2021	Anoek L. I., van Leeuwen, Nicole A. M., Dekker, Paul, Van Slyke, Esther, de Groot, Marc G., Vervloet, Joris J. T. H., Roelofs, Matijs, van Meurs, Charissa E., van den Brom	No
Ultrasound enhances the therapeutic potential of mesenchymal stem cells wrapped in greater omentum for aristolochic acid nephropathy	Stem Cell Research and Therapy	https://doi.org/10.1186/s13287-021-02243-7	2021	Yuanjun, Yang, Xiaodong, Geng, Kun, Chi, Chao, Liu, Ran, Liu, Xiangmei, Chen, Quan, Hong, Guangyan, Cai	No
Hyaluronic acid coated bilirubin nanoparticles attenuate ischemia reperfusion-induced acute kidney injury	Journal of Controlled Release	https://doi.org/10.1016/j.jconrel.2021.04.033	2021	Zhi Wei, Huang, Yannan, Shi, Yuan Yuan, Zhai, Chu Chu, Du, Jiaoyuan, Zhai, Run Jie, Yu, Longfa, Kou, Jian, Xiao, Ying Zheng, Zhao, Qing, Yao	No
Angiotensin II-mediated improvement of renal mitochondrial function via the AMPK/PGC-1α/NRF-2 pathway is superior to norepinephrine in a rat model of septic shock associated with acute renal injury	Annals of Translational Medicine	https://atm.amegroups.com/article/view/65975/html	2021	Hui, An, Zhenjie, Hu, Yuhong, Chen, Lianfang, Cheng, Jian, Shi, Linan, Han	No
Aestivation motifs explain hypertension and muscle mass loss in mice with psoriatic skin barrier defect	Acta Physiologica	https://doi.org/10.1111/apha.13628	2021	Johannes, Wild, Rebecca, Jung, Tanja, Knopp, Panagiotis, Efentakis, Dimitra, Benaki, Alexandra, Grill, Joanna, Wegner, Michael, Molitor, Venkata, Garlapati, Natalia, Rakova, Lajos, Markó, Adriana, Marton, Emmanuel, Mikros, Thomas, Münzel, Sabine, Kossmann, Manfred, Rauh, Daisuke, Nakano, Kento, Kitada, Friedrich, Luft, Ari, Waisman, Philip, Wenzel, Jens, Titze, Susanne, Karbach	No
Aging and chronic high-fat feeding negatively affect kidney size, function, and gene expression in CTRP1-deficient mice	American Journal of Physiology-Regulatory, Integrative and Comparative Physiology	https://journals.physiology.org/doi/10.1152/ajpregu.00139.2020	2021	Susana, Rodriguez, Hannah C., Little, Parnaz, Daneshpajouhnejad, Paride, Fenaroli, Stefanie Y., Tan, Dylan C., Sarver, Michael, Delannoy, C. Conover, Talbot, Sandeep, Jandu, Dan E., Berkowitz, Jennifer L., Pluznick, Avi Z., Rosenberg, G. William, Wong	No
Exogenous hydrogen sulfide and miR-21 antagonism attenuates macrophage-mediated inflammation in ischemia reperfusion injury of the aged kidney	GeroScience	https://doi.org/10.1007/s11357-020-00299-6	2021	Sathnur, Pushpakumar, Sourav, Kundu, Gregory, Weber, Utpal, Sen	No
Ranolazine alleviates contrast-associated acute kidney injury through modulation of calcium independent oxidative stress and apoptosis	Life Sciences	https://doi.org/10.1016/j.lfs.2020.118920	2021	Chang, Ma, Tongshuai, Chen, Yun, Ti, Yi, Yang, Yan, Qi, Chunmei, Zhang, Lingxin, Liu, Peili, Bu	No
Visualized podocyte-targeting and focused ultrasound responsive glucocorticoid nano-delivery system against immune-associated nephropathy without glucocorticoid side effect	Theranostics	https://doi.org/10.7150/THNO.53083	2021	Kui, Fan, Li, Zeng, Jing, Guo, Shuqin, Xie, Yuan, Yu, Jianwei, Chen, Jin, Cao, Qinyanqiu, Xiang, Siliang, Zhang, Yuanli, Luo, Qingyue, Deng, Qin, Zhou, Yan, Zhao, Lan, Hao, Zhigang, Wang, Ling, Zhong	No
Experimental Myocardial Infarction Elicits Time-Dependent Patterns of Vascular Hypoxia in Peripheral Organs and in the Brain	Frontiers in Cardiovascular Medicine	https://www.frontiersin.org/articles/10.3389/fcvm.2020.615507/full	2021	Hélène, David, Aurore, Ughetto, Philippe, Gaudard, Maëlle, Plawecki, Nitchawat, Paiyabhroma, Emma, Zub, Pascal, Colson, Sylvain, Richard, Nicola, Marchi, Pierre, Sicard	No

Title	Journal	Link	Publication date	References	Top Paper
Aortic Stiffness and Diastolic Dysfunction in Sprague Dawley Rats Consuming Short-Term Fructose Plus High Salt Diet	Integrated Blood Pressure Control	https://www.dovepress.com/aortic-stiffness-and-diastolic-dysfunction-in-sprague...	2020	Dragana, Komnenov, Peter E, Levanovich, Natalia, Perecki, Charles S, Chung, Noreen F, Rossi	No
Fufang Xueshuantong alleviates diabetic retinopathy by activating the PPAR signalling pathway and complement and coagulation cascades	Journal of Ethnopharmacology	https://doi.org/10.1016/j.jep.2020.113324	2021	Hui hui, Sun, Xin lou, Chai, Hong li, Li, Jing yun, Tian, Kun xiu, Jiang, Xing zhuo, Song, Xi rui, Wang, Yong sheng, Fang, Qingxuan, Ji, Hanying, Liu, Gai mei, Hao, Wei, Wang, Jing, Han	No
Impaired angiotensin II type 1 receptor signaling contributes to sepsis induced acute kidney injury.	Kidney International	https://doi.org/10.1016/j.kint.2020.07.047	2020	Daniel E., Leisman, Tiago D., Fernandes, Vanesa, Bijol, Mabel N., Abraham, Jake R., Lehman, Matthew D., Taylor, Christine, Capone, Omar, Yaipan, Rinaldo, Bellomo, Clifford S., Deutschman	No
Ultrasound measurement of change in kidney volume is a sensitive indicator of severity of renal parenchymal injury	American Journal of Physiology-Renal Physiology	https://doi.org/10.1152/ajprenal.00221.2020	2020	G. Ryan, Crislip, Bansari, Patel, Riyaz, Mohamed, Sarah C, Ray, Qingqing, Wei, Jingping, Sun, Aaron, Polichnowski, Jennifer C., Sullivan, Paul M, O'Connor	No
Albumin-constrained large-scale synthesis of renal clearable ferrous sulfide quantum dots for T1-Weighted MR imaging and phototheranostics of tumors	Biomaterials	https://doi.org/10.1016/j.biomaterials.2020.120186	2020	Weitao, Yang, Chenyang, Xiang, Yan, Xu, Shizhen, Chen, Weiwei, Zeng, Kai, Liu, Xiao, Jin, Xin, Zhou, Bingbo, Zhang	No
Ultrasound Molecular Imaging of Renal Cell Carcinoma: VEGFR targeted therapy monitored with VEGFR1 and FSHR targeted microbubbles	Scientific Reports	https://www.nature.com/articles/s41598-020-64433-2	2020	Alexandre, Ingels, Ingrid, Leguerney, Paul-Henry, Cournède, Jacques, Irani, Sophie, Ferlicot, Catherine, Sébrié, Baya, Benatsou, Laurène, Jourdain, Stephanie, Pitre-Champagnat, Jean-Jacques, Patard, Nathalie, Lassau	No
PRMT1 promotes neuroblastoma cell survival through ATF5	Oncogenesis	http://dx.doi.org/10.1038/s41389-020-0237-9	2020	Zhong-yan, Hua, Jeanne N, Hansen, Miao, He, Shang-kun, Dai, Yoonjung, Choi, Melody D, Fulton, Sarah M, Lloyd, Marianna, Szemes, Ji, Sen, Han-fei, Ding, James M, Angelastro, Xiang, Fei, Hui-Ping, Li, Chao-ran, Wu, Sheng-yong, Yang, Karim, Malik, Xiaomin, Bao, Y., George Zheng, Chang-mei, Liu, Nina F, Schor, Zhi-Jie, Li, Xing-guo, Li	No
Targeted beta therapy of prostate cancer with 177Lu-labelled Miltuximab® antibody against glypican-1 (GPC-1)	EJNMMI Research	https://ejnmmires.springeropen.com/articles/10.1186/s13550-020-00637-x	2020	Mei-Chun, Yeh, Brian W. C., Tse, Nicholas L., Fletcher, Zachary H., Houston, Maria, Lund, Marianna, Volpert, Chelsea, Stewart, Kamil A., Sokolowski, Varinder, Jeet, Kristofer J., Thurecht, Douglas H., Campbell, Bradley J., Walsh, Colleen C., Nelson, Pamela J., Russell	No
Quantitative Proteomics of Th-MYCN Transgenic Mice Reveals Aurora Kinase Inhibitor Altered Metabolic Pathways and Enhanced ACADM To Suppress Neuroblastoma Progression	Journal of Proteome Research	https://pubs.acs.org/doi/10.1021/acs.jproteome.9b00245	2019	Chiao-Hui, Hsieh, Chantal Hoi Yin, Cheung, Yen-Lin, Liu, Chun-Li, Hou, Chia-Lang, Hsu, Chen-Tsung, Huang, Tsai-Shan, Yang, Sung-Fang, Chen, Chiung-Nien, Chen, Wen-Ming, Hsu, Hsuan-Cheng, Huang, Hsueh-Fen, Juan	No

Title	Journal	Link	Publication date	References	Top Paper
Dysbiotic 1-carbon metabolism in cardiac muscle remodeling	Journal of Cellular Physiology	https://onlinelibrary.wiley.com/doi/abs/10.1002/jcp.29163	2020	Akash K., George, Mahavir, Singh, S., Pushpakumar, Rubens P., Homme, Shanna J., Hardin, Suresh C., Tyagi	No
Pioglitazone downregulates Twist-1 expression in the kidney and protects renal function of Zucker diabetic fatty rats	Biomedicine & Pharmacotherapy	https://doi.org/10.1016/j.biopha.2019.109346	2019	Zijian, Wang, Qingbo, Liu, Wendi, Dai, Bing, Hua, Hongwei, Li, Weiping, Li	No
Imaging of X-Ray-Excited Emissions from Quantum Dots and Biological Tissue in Whole Mouse	Scientific Reports	http://www.nature.com/articles/s41598-019-55769-5	2019	Sean G., Ryan, Matthew N., Butler, Segun S., Adeyemi, Tammy, Kalber, P. Stephen, Patrick, May, Zaw Thin, Ian F., Harrison, Daniel J., Stuckey, Martin, Pule, Mark F., Lythgoe	No
Stem cell delivery to kidney via minimally invasive ultrasound-guided renal artery injection in mice	Scientific Reports	http://www.nature.com/articles/s41598-020-64417-2	2020	May, Zaw Thin, Olumide, Ogunlade, Joan, Comenge, P Stephen, Patrick, Daniel J, Stuckey, Anna L, David, Mark F, Lythgoe, Paul, Beard, Tammy L, Kalber	No
Sex-specific differences in endoplasmic reticulum aminopeptidase 1 modulation influence blood pressure and renin-angiotensin system responses	JCI Insight	https://insight.jci.org/articles/view/129615	2019	Sanjay, Ranjit, Jian Yao, Wong, Jia W, Tan, Chee, Sin Tay, Jessica M, Lee, Kelly, Yin Han Wong, Luminita H, Pojoga, Danielle L, Brooks, Amanda E, Garza, Stephen A, Maris, Isis Akemi, Katayama, Jonathan S., Williams, Alicia, Rivera, Gail K, Adler, Gordon H, Williams, Jose R, Romero	No
Acute kidney injury promotes development of papillary renal cell adenoma and carcinoma from renal progenitor cells	Science Translational Medicine	https://stm.sciencemag.org/lookup/doi/10.1126/scitranslmed.aaw6003	2020	Anna Julie, Peired, Giulia, Antonelli, Maria Lucia, Angelotti, Marco, Allinovi, Francesco, Guzzi, Alessandro, Sisti, Roberto, Semeraro, Carolina, Conte, Benedetta, Mazzinghi, Sara, Nardi, Maria Elena, Melica, Letizia, De Chiara, Elena, Lazzeri, Laura, Lasagni, Tiziano, Lottini, Samuela, Landini, Sabrina, Giglio, Andrea, Mari, Fabrizio, Di Maida, Alessandro, Antonelli, Francesco, Porpiglia, Riccardo, Schiavina, Vincenzo, Ficarra, Davide, Facchiano, Mauro, Gacci, Sergio, Serni, Marco, Carini, George J, Netto, Rosa Maria, Roperto, Alberto, Magi, Christian Fynbo, Christiansen, Mario, Rotondi, Helen, Liapis, Hans-Joachim, Anders, Andrea, Minervini, Maria Rosaria, Raspollini, Paola, Romagnani	No
Effects of Klotho supplementation on hyperoxia-induced renal injury in a rodent model of postnatal nephrogenesis	Pediatric Research	http://www.nature.com/articles/s41390-020-0803-z	2020	Mohammed Farhan, Ali, Sunil Kumar Bathally, Venkatarayappa, Merline, Benny, Claudia, Rojas, Keyvan, Yousefi, Lina A., Shehadeh, Shathiyah, Kulandavelu, Mayank, Sharma, Naimeh, Da Silva, Michael, Freundlich, Carolyn L., Abitbol, Marissa J., DeFreitas, Karen C., Young	No

Title	Journal	Link	Publication date	References	Top Paper
mTORC1 Deficiency Modifies Volume Homeostatic Responses to Dietary Sodium in a Sex-Specific Manner	Endocrinology	https://academic.oup.com/endo/advance-article/doi/10.1210/endocr/bqaa041/5802448	2020	Danielle L, Brooks, Amanda E, Garza, Ezgi, Caliskan Guzelce, Shadi K, Gholami, Thitinan, Treesaranuwattana, Stephen, Maris, Sanjay, Ranjit, Chee Sin, Tay, Jessica M, Lee, Jose R, Romero, Gail K, Adler, Luminita H, Pojoga, Gordon H, Williams	No
The combination of a neprilysin inhibitor (sacubitril) and angiotensin-II receptor blocker (valsartan) attenuates glomerular and tubular injury in the Zucker Obese rat	Cardiovascular Diabetology	https://cardiab.biomedcentral.com/articles/10.1186/s12933-019-0847-8	2019	Javad, Habibi, Annayya R., Aroor, Nitin A., Das, Camila M., Manrique-Acevedo, Megan S., Johnson, Melvin R., Hayden, Ravi, Nistala, Charles, Wiedmeyer, Bysani, Chandrasekar, Vincent G., DeMarco	No
The orphan nuclear receptor RORα is a potential endogenous protector in renal ischemia/reperfusion injury	The FASEB Journal	https://www.fasebj.org/doi/10.1096/fj.201802248R	2019	Jieru, Cai, Xiaoyan, Jiao, Yi, Fang, Xiaofang, Yu, Xiaoqiang, Ding	No
Down-regulation of MYCN protein by CX-5461 leads to neuroblastoma tumor growth suppression	Journal of Pediatric Surgery	https://doi.org/10.1016/j.jpedsurg.2019.02.028	2019	Jordan S., Taylor, Jasmine, Zeki, Kimberly, Ornell, Jeannine, Coburn, Hiroyuki, Shimada, Naohiko, Ikegaki, Bill, Chiu	No
Sitagliptin and shock wave-supported peripheral blood derived endothelial progenitor cell therapy effectively preserves residual renal function in chronic kidney disease in rat—role of dipeptidyl peptidase 4 inhibition	Biomedicine and Pharmacotherapy	https://doi.org/10.1016/j.biopha.2019.01.025	2019	Pei Hsun, Sung, Kuan Hung, Chen, Yi Chen, Li, John Y., Chiang, Mel S., Lee, Hon Kan, Yip	No
A rat model of acute kidney injury through systemic hypoperfusion evaluated by micro-US, color and PW-Doppler	La radiologia medica	http://link.springer.com/10.1007/s11547-018-0962-8	2018	Francesca, Iacobellis, Teresa, Segreto, Daniela, Berritto, Francesca, Nettuno, Santolo, Cozzolino, Daniele, Di Napoli, Marco, Montella, Raffaele, Natella, Salvatore, Cappabianca, Luca, Brunese, Roberto, Grassi	No
Evaluation of renal oxygen saturation using photoacoustic imaging for the early prediction of chronic renal function in a model of ischemia-induced acute kidney injury	PLOS ONE	http://dx.plos.org/10.1371/journal.pone.0206461	2018	Kenichiro, Okumura, Junichi, Matsumoto, Yasunori, Iwata, Kotaro, Yoshida, Norihide, Yoneda, Takahiro, Ogi, Azusa, Kitao, Kazuto, Kozaka, Wataru, Koda, Satoshi, Kobayashi, Dai, Inoue, Norihiko, Sakai, Kengo, Furuichi, Takashi, Wada, Toshifumi, Gabata	No
Renoprotective effects of tolvaptan in hypertensive heart failure rats depend on renal decongestion	Hypertension Research	http://www.nature.com/articles/s41440-018-0169-3	2018	Hiroki, Chiba, Yoshihiro, Seo, Seika, Sai, Mikiko, Namekawa, Tomoko, Ishizu, Kazutaka, Aonuma	No
Vanin-1 in Renal Pelvic Urine Reflects Kidney Injury in a Rat Model of Hydronephrosis	International Journal of Molecular Sciences	http://www.mdpi.com/1422-0067/19/10/3186	2018	Keiko, Hosohata, Denan, Jin, Shinji, Takai, Kazunori, Iwanaga	No
Combined application of Indocyanine green (ICG) and laser lead to targeted tumor cell destruction	Journal of Pediatric Surgery	https://linkinghub.elsevier.com/retrieve/pii/S0022346818305190	2018	Jordan S., Taylor, Jasmine, Zeki, Naohiko, Ikegaki, Liaohai L., Chen, Bill, Chiu	No
Innate Immune Cells Are Regulated by Axl in Hypertensive Kidney	American Journal of Pathology	https://doi.org/10.1016/j.ajpath.2018.04.013	2018	Sri N., Batchu, George J., Dugbartey, Kristine M., Wadosky, Deanne M., Mickelsen, Kyung A., Ko, Ronald W., Wood, Yuqi, Zhao, Xia, Yang, Deborah J., Fowell, Vyacheslav A., Korshunov	No

Title	Journal	Link	Publication date	References	Top Paper
Tissue-penetrating, hypoxia-responsive echogenic polymersomes for drug delivery to solid tumors	Chemistry - A European Journal	http://doi.wiley.com/10.1002/chem.201802229	2018	Prajakta, Kulkarni, Manas K, Haldar, Fataneh, Karandish, Matthew I, Confeld, Rayat, Hossain, Pawel, Borowicz, Kara N, Gange, Lang, Xia, Kausik, Sarkar, Sanku, Mallik	No
Perfusion Computer Tomography Assessment of the Effect of Angiotensin II On Blood Flow Distribution in Rabbits with Intrarenal VX2 Tumors	Cellular Physiology and Biochemistry	https://www.karger.com/Article/FullText/489752	2018	Ying-Jin, Xu, Song-Hong, Wu, Huai-Jun, Liu, Pei, Niu, Wen-Zeng, Shen, Ying-Jie, Xu, Xiao-Ping, Yin, Tian-Le, Zhang, Xue-Zhao, Li, Fei, Guo, Xiao-Long, Niu, Jin-Song, Zhu	No
Sodium bicarbonate loading limits tubular cast formation independent of glomerular injury and proteinuria in dahl salt-sensitive rats	Clinical Science	http://clinsci.org/lookup/doi/10.1042/CS20171630	2018	S. C., Ray, B., Patel, D. L., Irsik, J, Sun, H, Ocasio, G. R., Crislip, C. H, Jin, J. K., Chen, B., Baban, A. J., Polichnowski, P. M., O'Connor	No
Apelin impairs myogenic response to induce diabetic nephropathy in mice	The FASEB Journal	http://www.fasebj.org/doi/10.1096/fj.201701257R	2018	Jia, Zhang, Jiming, Yin, Yangjia, Wang, Bin, Li, Xiangjun, Zeng	No
Renal Resistive Index as a Novel Indicator for Renal Complications in High-Fat Diet-Fed Mice	Kidney and Blood Pressure Research	https://www.karger.com/Article/FullText/485781	2017	Hairong, Xu, Zejun, Ma, Shan, Lu, Rui, Li, Liangkun, Lyu, Lexi, Ding, Qiulun, Lu	No
Rho Kinase Inhibitor , Fasudil , Attenuates Contrast-induced Acute Kidney Injury	Basic & Clinical Pharmacology & Toxicology	https://doi.org/10.1111/bcpt.12895	2018	Yiming, Wang, Hao, Zhang, Zhijian, Yang, Dengshun, Miao, Dingguo, Zhang	No
Manipulation of variables in local controlled release vincristine treatment in neuroblastoma	Journal of Pediatric Surgery	https://doi.org/10.1016/j.jpedsurg.2017.08.028	2017	Jeannine M, Coburn, Jamie, Harris, Rachel, Cunningham, Jasmine, Zeki, David L, Kaplan, Bill, Chiu	No
Tissue-directed Implantation Using Ultrasound Visualization for Development of Biologically Relevant Metastatic Tumor Xenografts	In vivo	https://doi.org/10.21873/invivo.11131	2017	Raelene A V A N, Noord, Tina, Thomas, Melanie, Krook, Sahiti, Chukkapalli, Mark J, Hoenerhoff, Jonathan R, Dillman, Elizabeth R, Lawlor, Valerie P, Opipari, Erika A, Newman	No
mTORC1 Couples Nucleotide Synthesis to Nucleotide Demand Resulting in a Targetable Metabolic Vulnerability	Cancer Cell	https://doi.org/10.1016/j.ccell.2017.09.013	2017	Alexander J, Valvezan, Marc, Turner, Amine, Belaid, Hilaire C., Lam, Spencer K., Miller, Molly C., McNamara, Christian, Baglini, Benjamin E., Housden, Norbert, Perrimon, David J., Kwiatkowski, John M, Asara, Elizabeth P, Henske, Brendan D, Manning	No
Establishment and evaluation of a reversible two-kidney, one-clip renovascular hypertensive rat model	Experimental and Therapeutic Medicine	https://www.spandidos-publications.com/	2017	Li-Qiang, Li, Jian, Zhang, Rong, Wang, Jian-Xin, Li, Yong-Quan, Gu	No
Activation of EphA1-Epha receptor axis attenuates diabetic nephropathy in mice	Biochemical and Biophysical Research Communications	http://dx.doi.org/10.1016/j.bbrc.2017.03.100	2017	Yihui, Li, Hongdan, Yan, Feng, Wang, Shanying, Huang, Yun, Zhang, Zhihao, Wang, Ming, Zhong, Wei, Zhang	No
A comparative study of the characterization of miR-155 in knockout mice	PLOS ONE	http://dx.plos.org/10.1371/journal.pone.0173487	2017	Dong, Zhang, Yongchun, Cui, Bin, Li, Xiaokang, Luo, Bo, Li, Yue, Tang	No
A heart–brain–kidney network controls adaptation to cardiac stress through tissue macrophage activation	Nature Medicine	http://dx.doi.org/10.1038/nm.4326	2017	Katsuhito, Fujiu, Munehiko, Shibata, Yukiteru, Nakayama, Fusa, Ogata, Sahohime, Matsumoto, Koji, Noshita, Shingo, Iwami, Susumu, Nakae, Issei, Komuro, Ryozo, Nagai, Ichiro, Manabe	No

Title	Journal	Link	Publication date	References	Top Paper
Measuring Absolute Blood Perfusion in Mice Using Dynamic Contrast-Enhanced Ultrasound	Ultrasound in Medicine & Biology	http://linkinghub.elsevier.com/retrieve/pii/S0301562917300613	2017	Abbas, Shirinifard, Suresh, Thiagarajan, Melissa D., Johnson, Christopher, Calabrese, Andras, Sablauer	No
Prostaglandin E 2 regulates renal function in C57/BL6 mouse with 5/6 nephrectomy	Life Sciences	http://linkinghub.elsevier.com/retrieve/pii/S0024320517300838	2017	J., Jin, Q., Tang, Z., Li, Z., Zhao, Z., Zhang, L., Lu, T., Zhu, P.M., Vanhoutte, S.W., Leung, R., Tu, Y., Shi	No
Serelaxin as a potential treatment for renal dysfunction in cirrhosis: Preclinical evaluation and results of a randomized phase 2 trial	PLOS Medicine	http://dx.plos.org/10.1371/journal.pmed.1002248	2017	Victoria K., Snowdon, Neil J., Lachlan, Anna M., Hoy, Patrick W. F., Hadoke, Scott I., Semple, Dilip, Patel, Will, Mungall, Timothy J., Kendall, Adrian, Thomson, Ross J., Lennen, Maurits A., Jansen, Carmel M., Moran, Antonella, Pellicoro, Prakash, Ramachandran, Isaac, Shaw, Rebecca L., Aucott, Thomas, Severin, Rajnish, Saini, Judy, Pak, Denise, Yates, Neelesh, Dongre, Jeremy S., Duffield, David J., Webb, John P., Iredale, Peter C., Hayes, Jonathan A., Fallowfield	No
Food Restriction Ameliorates the Development of Polycystic Kidney Disease	Journal of the American Society of Nephrology	http://www.jasn.org/cgi/doi/10.1681/ASN.2015020132	2016	G., Warner, K. Z., Hein, V., Nin, M., Edwards, C. C. S., Chini, K., Hopp, P. C., Harris, V. E., Torres, E. N., Chini	No
Enhancing the anti-multiple myeloma efficiency in a cancer stem cell xenograft model by conjugating the ABCG2 antibody with microbubbles for a targeted delivery of ultrasound mediated epirubicin	Biochemical Pharmacology	http://linkinghub.elsevier.com/retrieve/pii/S0006295217300916	2017	Fangfang, Shi, Miao, Li, Songyan, Wu, Fang, Yang, Wu, Di, Meng, Pan, Fengshu, Zhao, Shouhua, Luo, Ning, Gu, Jun, Dou	No
Myocardial Infarction Promoted the Contrast-Induced Nephropathy by Renal Injury		https://doi.org/10.20944/preprints201611.0108.v1	2016	Zhiwen, Tao, Ningtian, Zhou, Fan, Huang, Bo, Chen, Zhijian, Yang	No
Renal Denervation Attenuates Multi-Organ Fibrosis and Improves Vascular Remodeling in Rats with Transverse Aortic Constriction Induced Cardiomyopathy	Cellular Physiology and Biochemistry	https://www.karger.com/?doi=10.1159/000452561	2016	Kai, Wang, Dasheng, Lu, Bin, Zhang, Shengchan, Wang, Qian, Liu, Qi, Zhang, Jie, Geng, Qijun, Shan	No
Lack of an apparent role for endothelin-1 in the prolonged reduction in renal perfusion following severe unilateral ischemia-reperfusion injury in the mouse	Physiological Reports	http://physreports.physiology.org/lookup/doi/10.14814/phy2.13027	2016	Erika I., Boesen	No
EVALUATION OF THE APPLICABILITY OF DOPPLER VELOCIMETRY FOR MONITORING ACUTE KIDNEY INJURY IN RATS	RESBCAL		2016	Regiane, Marinho, Gui Mi, Ko, José, Eduardo, Mourão, Santos, Mirian Aparecida, Boim	No
High-resolution renal perfusion mapping using contrast-enhanced ultrasonography in ischemia-reperfusion injury monitors changes in renal microperfusion	Kidney International	http://dx.doi.org/10.1016/j.kint.2016.02.004	2016	Krisztina, Fischer, F Can, Meral, Yongzhi, Zhang, Mark G, Vangel, Ferenc A, Jolesz, Takaharu, Ichimura, Joseph V, Bonventre	No
Kidney adysplasia and variable hydronephrosis, a new mutation affecting the odd - Skipped related 1 gene in the mouse, causes variable defects in kidney development and hydronephrosis	American Journal of Physiology - Renal Physiology	http://ovidsp.ovid.com/ovidweb.cgi?T=JS&CSC=Y&NEWS=N&PAGE=fulltext&D=emed13&AN=...	2015	M T, Davisson, S a, Cook, E C, Akeson, D, Liu, C, Heffner, P, Gudis, H, Fairfield, S a, Murray	No
Impaired Coronary and Renal Vascular Function in Spontaneously Type 2 Diabetic Leptin-Deficient Mice	PLOS ONE	http://dx.plos.org/10.1371/journal.pone.0130648	2015	Helena U., Westergren, Julia, Grönros, Suvi E., Heinonen, Tasso, Miliotis, Karin, Jennbacken, Alan, Sabirsh, Anette, Ericsson, Ann-Cathrine, Jönsson-Rylander, Sara, Svedlund, Li-Ming, Gan	No

Title	Journal	Link	Publication date	References	Top Paper
Cytosolic Phospholipase A 2 α Is Essential for Renal Dysfunction and End-Organ Damage Associated With Angiotensin II-Induced Hypertension	American Journal of Hypertension	http://ajh.oxfordjournals.org/cgi/doi/10.1093/ajh/hpv083	2016	Nayaab S., Khan, Chi Young, Song, Shyamala, Thirunavukkarasu, Xiao R., Fang, Joseph V., Bonventre, Kafait U., Malik	No
Progressive development of polycystic kidney disease in the mouse model expressing Pkd1 extracellular domain.	Human molecular genetics	http://www.ncbi.nlm.nih.gov/pubmed/23439951	2013	Almira, Kurbegovic, Marie, Trudel	No
Effect of Sodium-Glucose Cotransport Inhibition on Polycystic Kidney Disease Progression in PCK Rats	PLOS ONE	http://dx.plos.org/10.1371/journal.pone.0125603	2015	Sarika, Kapoor, Daniel, Rodriguez, Meliana, Riwanto, Ilka, Edenhofer, Stephan, Segerer, Katharyn, Mitchell, Rudolf P., Wüthrich	No
Pathogenesis of Renal Injury in the Megabladder Mouse: A Genetic Model of Congenital Obstructive Nephropathy	Pediatric Research	http://www.nature.com/doifinder/10.1203/PDR.0b013e3181f82f15	2010	Susan E, Ingraham, Monalee, Saha, Ashley R, Carpenter, Melissa, Robinson, Ihab, Ismail, Sunita, Singh, David, Hains, Michael L, Robinson, Daniel a, Hirselj, Stephen a, Koff, Carlton M, Bates, Kirk M, McHugh	No
Dependence of Wilms tumor cells on signaling through insulin-like growth factor 1 in an orthotopic xenograft model targetable by specific receptor inhibition	Proceedings of the National Academy of Sciences	http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3356645&tool=pmcentre...	2012	Aleksandra, Bielen, Gary, Box, Lara, Perryman, Lynn, Bjerke, Sergey, Popov, Yann, Jamin, Alexa, Jury, Melanie, Valenti, Alexis De Haven, Brandon, Vanessa, Martins, Vincent, Romanet, Sebastien, Jeay, Florence I, Raynaud, Francesco, Hofmann, Simon P, Robinson, Suzanne a, Eccles, Chris, Jones	No
Molecular basis of renal adaptation in a murine model of congenital obstructive nephropathy.	PloS one	http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3762787&tool=pmcentre...	2013	Brian, Becknell, Ashley R, Carpenter, Jordan L, Allen, Michael E, Wilhide, Susan E, Ingraham, David S, Hains, Kirk M, McHugh	No
Struvite Urolithiasis and Chronic Urinary Tract Infection in a Murine Model of Urinary Diversion	Urology	http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3916187&tool=pmcentre...	2013	Brian, Becknell, Ashley R, Carpenter, Brad, Bolon, John R, Asplin, Susan E, Ingraham, David S, Hains, Andrew L, Schwaderer, Kirk M, McHugh	No
Targeting cancer stem-like cells as an approach to defeating cellular heterogeneity in Ewing sarcoma.	Cancer research	http://www.ncbi.nlm.nih.gov/pubmed/25261238	2014	Sandrine, Cornaz-Buros, Nicolo, Riggi, Claudio, DeVito, Alexandre, Sarre, Igor, Letovanec, Paolo, Provero, Ivan, Stamenkovic	No
Collecting Duct-Derived Cells Display Mesenchymal Stem Cell Properties and Retain Selective In Vitro and In Vivo Epithelial Capacity.	Journal of the American Society of Nephrology : JASN	http://www.ncbi.nlm.nih.gov/pubmed/24904087	2015	Joan, Li, Usukhbayar, Ariunbold, Norseha, Suhaimi, Nana, Sunn, Jinjin, Guo, Jill a, McMahon, Andrew P, McMahon, Melissa, Little	No
Routes of Delivery for CpG and Anti-CD137 for the Treatment of Orthotopic Kidney Tumors in Mice	PloS one	https://doi.org/10.1371/journal.pone.0095847	2014	Jennifer a, Westwood, Titaina C U Potdevin, Hunnam, Hollie J, Pegram, Rodney J, Hicks, Phillip K, Darcy, Michael H, Kershaw	No
Erythropoietin accelerates the regeneration of ureteral function in a murine model of obstructive uropathy.	The Journal of urology	http://www.sciencedirect.com/science/article/pii/S0022534714043651	2015	Claudia, Janssen, Wolfgang, Jäger, Igor, Moskalev, Ladan, Fazli, Joachim W, Thüroff, Dirk, Lange	No
Urine Stasis Predisposes to Urinary Tract Infection by an Opportunistic Uropathogen in the Megabladder (Mgb) Mouse	Plos One	http://dx.plos.org/10.1371/journal.pone.0139077	2015	Brian, Becknell, Ahmad Z., Mohamed, Birong, Li, Michael E., Wilhide, Susan E., Ingraham	No

Title	Journal	Link	Publication date	References	Top Paper
Inhibition of p38 MAPK attenuates renal atrophy and fibrosis in a murine renal artery stenosis model.	American journal of physiology. Renal physiology	http://www.ncbi.nlm.nih.gov/pubmed/23364805	2013	Diping, Wang, Gina M, Warner, Ping, Yin, Bruce E, Knudsen, Jingfei, Cheng, Kim a, Butters, Karen R, Lien, Catherine E, Gray, Vesna D, Garovic, Lilach O, Lerman, Stephen C, Textor, Karl a, Nath, Robert D, Simari, Joseph P, Grande	No
Increased myocardial ischemia-reperfusion injury in renal failure involves cardiac adiponectin signal deficiency	AJP: Endocrinology and Metabolism	http://ajpendo.physiology.org/cgi/doi/10.1152/ajpendo.00428.2013	2014	Y, Song, Q, Yu, J., Zhang, W, Huang, Y., Liu, H, Pei, J, Liu, L, Sun, Lu, Yang, C., Li, Y, Li, F, Zhang, Y, Qu, Ling, Tao	No
Renal Retention of Lipid Microbubbles: A Potential Mechanism for Flank Discomfort During Ultrasound Contrast Administration	Journal of the American Society of Echocardiography	http://www.ncbi.nlm.nih.gov/pubmed/24035699	2013	Ya Ni, Liu, Jaspreet, Khangura, Aris, Xie, J Todd, Belcik, Yue, Qi, Brian P, Davidson, Yan, Zhao, Sajeevani, Kim, Yoichi, Inaba, Jonathan R, Lindner	No
Investigation and identification of etiologies involved in the development of acquired hydronephrosis in aged laboratory mice with the use of high-frequency ultrasound imaging	Pathobiology of Aging & Age-related Diseases	http://www.pathobiologyofaging.net/index.php/pba/article/view/24932	2014	Danielle A, Springer, Michele, Allen, Victoria, Hoffman, Lauren, Brinster, Matthew F, Starost, Mark, Bryant, Michael, Eckhaus	No
Matrix metalloproteinase inhibition mitigates renovascular remodeling in salt-sensitive hypertension	Physiological Reports	http://www.ncbi.nlm.nih.gov/pubmed/24159376	2013	Sathnur B, Pushpakumar, Sourav, Kundu, Naira, Metreveli, Suresh C, Tyagi, Utpal, Sen	No
Kidney Development		http://link.springer.com/10.1007/978-1-61779-851-1	2012	Ashley R, Carpenter, Brian, Becknell, Susan E, Ingraham, Kirk M, Mchugh	No
A validated tumorgraft model reveals activity of dovitinib against renal cell carcinoma.	Science translational medicine	http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3570965&tool=pmcentre...	2012	Sharanya, Sivanand, Samuel, Peña-Llopis, Hong, Zhao, Blanka, Kucejova, Patrick, Spence, Andrea, Pavia-Jimenez, Toshinari, Yamasaki, David J, McBride, Jessica, Gillen, Nicholas C, Wolff, Lorraine, Morlock, Yair, Lotan, Ganesh V, Raj, Arthur, Sagalowsky, Vitaly, Margulis, Jeffrey a, Cadeddu, Mark T, Ross, David R, Bentley, Wareef, Kabbani, Xian-Jin, Xie, Payal, Kapur, Noelle S, Williams, James, Brugarolas	No
Monitoring kidney safety in drug development : Emerging technologies and their implications	Current Opinion in Drug Discovery & Development		2008	Frank, Dieterle, Estelle, Marrer, Eiko, Suzuki, Olivier, Grenet, Andre, Cordier, Jacky, Vonderscher, Novartis Pharma, Kk, Techno-park, Oho	No
Endoplasmic reticulum stress effector CCAAT/enhancer-binding protein homologous protein (CHOP) regulates chronic kidney disease-induced vascular calcification.	Journal of the American Heart Association	http://www.ncbi.nlm.nih.gov/pubmed/24963104	2014	Shinobu, Miyazaki-Anzai, Masashi, Masuda, Kimberly M, Demos-Davies, Audrey L, Keenan, Sommer J, Saunders, Rumiko, Masuda, Kristen, Jablonski, Maria a, Cavasin, Jessica, Kendrick, Michel, Chonchol, Timothy a, McKinsey, Moshe, Levi, Makoto, Miyazaki	No
The small fibrinopeptide Bβ15-42 as renoprotective agent preserving the endothelial and vascular integrity in early ischemia reperfusion injury in the mouse kidney.	PloS one	http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3879329&tool=pmcentre...	2014	Anja, Urbschat, Kai, Zacharowski, Nicholas, Obermüller, Katrin, Rupprecht, Daniela, Penzkofer, Carla, Jennewein, Nguyen, Tran, Bertram, Scheller, Stefanie, Dimmeler, Patrick, Paulus	No

Title	Journal	Link	Publication date	References	Top Paper
Novel use of ultrasound to examine regional blood flow in the mouse kidney.	American journal of physiology. Renal physiology	http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2711705&tool=pmcentre...	2009	Jennifer C, Sullivan, Bin, Wang, Erika I, Boesen, Gerard D, Angelo, Jennifer S, Pollock, David M, Pollock, Gerard, D'Angelo	No
Silencing of Hypoxia-Inducible Factor-1 Gene Attenuated Angiotensin II-Induced Renal Injury in Sprague-Dawley Rats	Hypertension	http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3174356&tool=pmcentre...	2011	Qing, Zhu, Zhengchao, Wang, Min, Xia, P.-L., Li, Benjamin W, Van Tassell, Antonio, Abbate, Romesh, Dhaduk, Ningjun, Li	No
Use of ultrasound to assess renal reperfusion and P-selectin expression following unilateral renal ischemia.	American journal of physiology. Renal physiology	http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3518191&tool=pmcentre...	2012	Erika I, Boesen, G Ryan, Crislip, Jennifer C, Sullivan	No
Ultrasound Imaging of the Murine Kidney		http://link.springer.com/10.1007/978-1-61779-851-1	2012	Ashley R, Carpenter, Brian, Becknell, Susan E, Ingraham, Kirk M., McHugh	No