

Title	Journal	Link	Publication date	References	Top Paper
Quantitative Functional Evaluation of Liver Fibrosis in Mice with Dynamic Contrast-enhanced Photoacoustic Imaging	Radiology		2021	Jing, Lv, Yue, Xu, Ling, Xu, Liming, Nie	Yes
Photoacoustic Imaging for Assessing Tissue Oxygenation Changes in Rat Hepatic Fibrosis	Diagnostics		2020	Mrigendra B., Karmacharya, Laith R., Sultan, Brooke M., Kirkham, Angela K., Brice, Andrew K.W., Wood, Chandra M., Sehgal	Yes
Scattering Signatures of Normal versus Abnormal Livers with Support Vector Machine Classification	Ultrasound in Medicine and Biology		2020	Jihye, Baek, Sedigheh S., Poul, Terri A., Swanson, Theresa, Tuthill, Kevin J., Parker	Yes
B-mode ultrasound for the assessment of hepatic fibrosis: a quantitative multiparametric analysis for a radiomics approach	Scientific Reports	http://www.nature.com/articles/s41598-019-45043-z	2019	Julia C., D'Souza, Laith R., Sultan, Stephen J., Hunt, Susan M., Schultz, Angela K., Brice, Andrew K. W., Wood, Chandra M., Sehgal	Yes
Imaging-based vascular-related biomarkers for early detection of acetaminophen-induced liver injury	Theranostics	http://www.thno.org/v10p6715.htm	2020	Haolu, Wang, Leslie J, Burke, Jatin, Patel, Brian WC., Tse, Kim R, Bridle, Victoria C, Cogger, Xinxing, Li, Xin, Liu, Haotian, Yang, Darrell H G, Crawford, Michael S, Roberts, Wenchao, Gao, Xiaowen, Liang	Yes
Noninvasive monitoring of liver metastasis development via combined multispectral photoacoustic imaging and fluorescence diffuse optical tomography	International Journal of Biological Sciences	http://www.ijbs.com/v16p1616.htm	2020	Jonathan, Lavaud, Maxime, Henry, Pascal, Gayet, Arnold, Fertin, Julien, Voltaire, Yves, Usson, Jean-Luc, Coll, Véronique, Josserand	Yes
iRGD Peptide-Mediated Liposomal Nanoparticles with Photoacoustic/Ultrasound Dual-Modality Imaging for Precision Theranostics Against Hepatocellular Carcinoma	International journal of nanomedicine		2021	Huipu, Li, Shasha, Shi, Meng, Wu, Wei, Shen, Jianli, Ren, Zhechuan, Mei, Haitao, Ran, Zhigang, Wang, Yi, Tian, Jian, Gao, Hongyun, Zhao	No
GM-CSF drives myelopoiesis, recruitment and polarisation of tumour-associated macrophages in cholangiocarcinoma and systemic blockade facilitates antitumour immunity	Gut		2021	Luis I, Ruffolo, Katherine M, Jackson, Peyton C, Kuhlert, Benjamin S, Dale, Nathania M, Figueroa Guilliani, Nicholas A, Ullman, Paul R, Burchard, Shuyang S, Qin, Peter G, Juviler, Jessica Millian, Keilson, Ashley B, Morrison, Mary, Georger, Rachel, Jewell, Laura M, Calvi, Timothy M, Nywening, Michael R, O'Dell, Aram F, Hezel, Luis, De Las Casas, Gregory B, Lesinski, Jen Jen, Yeh, Roberto, Hernandez-Alejandro, Brian A, Belt, David C, Linehan	No
Clusters of Ultrasound Scattering Parameters for the Classification of Steatotic and Normal Livers	Ultrasound in Medicine and Biology		2021	Jihye, Baek, Sedigheh S., Poul, Lokesh, Basavarajappa, Shreya, Reddy, Haowei, Tai, Kenneth, Hoyt, Kevin J., Parker	No
NIR-II Photoacoustic Reporter for Biopsy-Free and Real-Time Assessment of Wilson's Disease	Small		2021	Qinrui, Fu, Jiamin, Ye, Juejun, Wang, Naishun, Liao, Hongjuan, Feng, Lichao, Su, Xiaoguang, Ge, Huanghao, Yang, Jibin, Song	No

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FOSL1 promotes cholangiocarcinoma via transcriptional effectors that could be therapeutically targeted	Journal of Hepatology	https://doi.org/10.1016/j.jhep.2021.03.028	2021	Adrián, Vallejo, Oihane, Erice, Rodrigo, Entrialgo-Cadierno, Iker, Feliu, Elizabeth, Guruceaga, Maria J., Perugorria, Paula, Olaizola, Alexandra, Muggli, Irati, Macaya, Michael, O'Dell, Borja Ruiz-Fernandez de, Cordoba, Sergio, Ortiz-Espinosa, Aram F., Hezel, Imanol, Arozarena, Fernando, Lecanda, Matias A., Avila, Maite G., Fernández-Barrena, Matthias, Evert, Mariano, Ponz-Sarvise, Diego F., Calvisi, Jesus M., Banales, Silve, Vicent	No
A Pegylated Flavin Adenine Dinucleotide PEG Complex to Boost Immunogenic and Therapeutic Effects in a Liver Cancer Model	Nanotheranostics		2021	Celia, Arib, Hui, Liu, Qiqian, Liu, Anne Marie, Cieutat, Didier, Paleni, Xiaowu, Li, Jolanda, Spadavecchia	No
Measurement of total liver blood flow in intact anesthetized rats using ultrasound imaging	Pharmacology Research and Perspectives		2021	Christopher R., Gibson, Alexa, Gleason, Eric, Messina	No
n-3 PUFAs protect against adiposity and fatty liver by promoting browning in postnatally overfed male rats: a role for NRG4	Journal of Nutritional Biochemistry		2021	Fan, Yang, Nan, Zhou, Xiaolei, Zhu, Cuiting, Min, Wei, Zhou, Xiaonan, Li	No
Targeting EphA2 suppresses hepatocellular carcinoma initiation and progression by dual inhibition of JAK1/STAT3 and AKT signaling	Cell Reports	https://doi.org/10.1016/j.celrep.2021.108765	2021	Hao, Wang, Wei, Hou, Aldeb, Perera, Carlee, Bettler, Jordan R., Beach, Xianzhong, Ding, Jun, Li, Mitchell F., Denning, Asha, Dhanarajan, Scott J., Cotler, Cara, Joyce, Jun, Yin, Fowsiyu, Ahmed, Lewis R., Roberts, Wei, Qiu	No
Photoacoustic monitoring of oxygenation changes induced by therapeutic ultrasound in murine hepatocellular carcinoma	Scientific Reports	https://doi.org/10.1038/s41598-021-83439-y	2021	Mrigendra B., Karmacharya, Laith R., Sultan, Chandra M., Sehgal	No
Placental growth factor promotes tumour desmoplasia and treatment resistance in intrahepatic cholangiocarcinoma	Gut		2021	Shuichi, Aoki, Koetsu, Inoue, Sebastian, Klein, Stefan, Halvorsen, Jiang, Chen, Aya, Matsui, Mohammad R., Nikmaneshi, Shuji, Kitahara, Tai, Hato, Xianfeng, Chen, Kazumichi, Kawakubo, Hadi T., Nia, Ivy, Chen, Daniel H., Schanne, Emilie, Mamessier, Kohei, Shigeta, Hiroto, Kikuchi, Rakesh R., Ramjiawan, Tyge C.E., Schmidt, Masaaki, Iwasaki, Thomas, Yau, Theodore S., Hong, Alexander, Quaas, Patrick S., Plum, Simona, Dima, Irinel, Popescu, Nabeel, Bardeesy, Lance L., Munn, Mitesh J., Borad, Slim, Sassi, Rakesh K., Jain, Andrew X., Zhu, Dan G., Duda	No

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Regorafenib combined with PD1 blockade increases CD8 T-cell infiltration by inducing CXCL10 expression in hepatocellular carcinoma	Journal for ImmunoTherapy of Cancer		2020	Kohei, Shigeta, Aya, Matsui, Hiroto, Kikuchi, Sebastian, Klein, Emilie, Mameessier, Ivy X., Chen, Shuichi, Aoki, Shuji, Kitahara, Koetsu, Inoue, Ayako, Shigeta, Tai, Hato, Rakesh R., Ramjiawan, Daniel, Staiculescu, Dieter, Zopf, Lukas, Fiebig, Gabriela S., Hobbs, Alexander, Quaas, Simona, Dima, Irinel, Popescu, Peigen, Huang, Lance L., Munn, Mark, Cobbold, Lipika, Goyal, Andrew X., Zhu, Rakesh K., Jain, Dan G., Duda	No
Multiparametric ultrasound imaging for the assessment of normal versus steatotic livers	Scientific Reports	https://doi.org/10.1038/s41598-021-82153-z	2021	Lokesh, Basavarajappa, Jihye, Baek, Shreya, Reddy, Jane, Song, Haowei, Tai, Girdhari, Rijal, Kevin J., Parker, Kenneth, Hoyt	No
An application of multivariate data analysis to photoacoustic imaging for the spectral unmixing of gold nanorods in biological tissues	Nanomaterials		2021	Mirko, Maturi, Paolo, Armanetti, Luca, Menichetti, Mauro Comes, Franchini	No
Remote ischemic preconditioning attenuates hepatic ischemia/reperfusion injury after hemorrhagic shock by increasing autophagy	International Journal of Medical Sciences		2021	Hao, Zhou, Lin, Li, Hao, Sun, Hua, Li, Yuxuan, Wu, Xiaomin, Zhang, Jinsong, Zhang	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
Automated thermal imaging for the detection of fatty liver disease	Scientific Reports	https://doi.org/10.1038/s41598-020-72433-5	2020	Rafael Y., Brzezinski, Lapaz, Levin-Kotler, Neta, Rabin, Zehava, Ovadia-Blechman, Yair, Zimmer, Adi, Sternfeld, Joanna Molad, Finchelmann, Razan, Unis, Nir, Lewis, Olga, Tepper-Shaihov, Nili, Naftali-Shani, Nora, Balint-Lahat, Michal, Safran, Ziv, Ben-Ari, Ehud, Grossman, Jonathan, Leor, Oshrit, Hoffer	No
Prophylactical low dose whole-liver irradiation inhibited colorectal liver metastasis by regulating hepatic niche in mice	OncoTargets and Therapy		2020	Lu, Wang, Yinan, Sun, Xiaoxiao, Luo, Hu, Han, Han, Yin, Ben, Zhao, Xinyi, Chen, Qianqian, Yu, Hong, Qiu, Xianglin, Yuan	No
Contrast-enhanced ultrasound imaging for assessing organ perfusion in rainbow trout (Oncorhynchus mykiss)	Science of the Total Environment	https://doi.org/10.1016/j.scitotenv.2020.141231	2021	Una, Goncin, Ngoc, Ton, Ashwin, Reddy, Ahmed, El Kaffas, Markus, Brinkmann, Steven, Mactaler	No
Cisplatin promotes the expression level of PD-L1 in the microenvironment of hepatocellular carcinoma through YAP1	Molecular and Cellular Biochemistry	https://doi.org/10.1007/s11010-020-03861-0	2020	Shenghao, Li, Jingmin, Ji, Zhiqin, Zhang, Qing, Peng, Liyuan, Hao, Yinglin, Guo, Wenhan, Zhou, Qingzhuo, Cui, Xinli, Shi	No

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Reduction of Polyunsaturated Fatty Acids with Tumor Progression in a Lean Non-Alcoholic Steatohepatitis-Associated Hepatocellular Carcinoma Mouse Model	Journal of Cancer		2020	Elizabeth M, Vlock, Shilpa, Karanjit, Geoffrey, Talmon, Paraskevi A, Farazi	No
Heterogeneity and chimerism of endothelial cells revealed by single-cell transcriptome in orthotopic liver tumors	Angiogenesis	https://doi.org/10.1007/s10456-020-09727-9	2020	Qi, Zhao, Maria del Pilar, Molina-Portela, Asma, Parveen, Alexander, Adler, Christina, Adler, Hock, E, Wei, Wang, Min, Ni, Yi, Wei, Gurinder, Atwal, Markus, Mohrs, Gavin, Thurston, Alexandra, Eichten	No
Targeted beta therapy of prostate cancer with 177Lu-labelled Miltuximab® antibody against glypican-1 (GPC-1)	EJNMMI Research	https://ejnmires.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
Electron paramagnetic resonance spectroscopy reveals alterations in the redox state of endogenous copper and iron complexes in photodynamic stress-induced ischemic mouse liver	Redox Biology	https://doi.org/10.1016/j.redox.2020.101566	2020	Monika A, Jakubowska, Janusz, Pyka, Dominika, Michalczyk-Wetula, Krzysztof, Baczyński, Maciej, Cieśła, Anna, Susz, Paweł E, Ferdek, Beata K., Płonka, Leszek, Fiedor, Przemysław M, Płonka	No
Rosiglitazone ameliorates bile duct ligation-induced liver fibrosis by down-regulating NF-κB-TNF-α signaling pathway in a PPARγ-dependent manner	Biochemical and Biophysical Research Communications	https://linkinghub.elsevier.com/retrieve/pii/S0006291X19318121	2019	Zhuo, Wei, Dan, Zhao, Ye, Zhang, Yuanli, Chen, Shuang, Zhang, Qi, Li, Peng, Zeng, Xiaoju, Li, Wenwen, Zhang, Yajun, Duan, Jihong, Han, Xiaoxiao, Yang	No
Hyperdynamic circulatory syndrome in a mouse model transgenic for SerpinB3	Annals of Hepatology	https://doi.org/10.1016/j.aohep.2019.06.021	2020	Gianmarco, Villano, Alberto, Verardo, Andrea, Martini, Silvia, Brocco, Paola, Pesce, Erica, Novo, Maurizio, Parola, David, Sacerdoti, Marco, Di Pascoli, Marny, Fedrigo, Chiara, Castellani, Annalisa, Angelini, Patrizia, Pontisso, Massimo, Bolognesi	No
Research paper microbubble enhanced ultrasound for the antivascular treatment and monitoring of hepatocellular carcinoma	Nanotheranostics		2019	Julia C., D'Souza, Laith R., Sultan, Stephen J., Hunt, Terence P., Gade, Mrigendra B., Karmacharya, Susan M., Schultz, Angela K., Brice, Andrew K.W., Wood, Chandra M., Sehgal	No
GRIM-19 over-expression represses the proliferation and invasion of orthotopically implanted hepatocarcinoma tumors associated with downregulation of Stat3 signaling	BioScience Trends	https://www.jstage.jst.go.jp/article/bst/13/4/13_2019.01185/_article	2019	Dexia, Kong, Junyu, Chen, Xun, Sun, Yan, Lin, Yanwei, Du, Di, Huang, Hongjing, Cheng, Ping, He, Luoluo, Yang, Shan, Wu, Lijing, Zhao, Xiangwei, Meng	No

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Simulation of gastric bypass effects on glucose metabolism and non-alcoholic fatty liver disease with the Sleeveballoon device	EBioMedicine	https://doi.org/10.1016/j.ebiom.2019.07.069	2019	James, Casella-Mariolo, Lidia, Castagneto-Gissey, Giulia, Angelini, Andrea, Zoli, Pierluigi, Marini, Stefan R., Bornstein, Dimitri J., Pournaras, Francesco, Rubino, Carel W., le Roux, Geltrude, Mingrone, Giovanni, Casella	No
Development of orthotopic tumour models using ultrasound-guided intrahepatic injection	Scientific Reports	http://www.nature.com/articles/s41598-019-46410-6	2019	L. E., McVeigh, I., Wijetunga, N., Ingram, G., Marston, R., Prasad, A. F., Markham, P. L., Coletta	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
Mitochondria-targeted antioxidant mitoquinone attenuates liver inflammation and fibrosis in cirrhotic rats	American Journal of Physiology-Gastrointestinal and Liver Physiology	https://www.physiology.org/doi/10.1152/ajpgi.00135.2019	2020	Saadet, Turkseven, Massimo, Bolognesi, Alessandra, Brocca, Paola, Pesce, Paolo, Angeli, Marco, Di Pascoli	No
Systemic long-term inactivation of hypoxia-inducible factor prolyl 4-hydroxylase 2 ameliorates aging-induced changes in mice without affecting their life span	The FASEB Journal	https://onlinelibrary.wiley.com/doi/abs/10.1096/fj.201902331R	2020	Anna, Laitakari, Riikka, Huttunen, Paula, Kuvaja, Pauliina, Hannuksela, Zoltan, Szabo, Minna, Heikkilä, Risto, Kerkelä, Johanna, Myllyharju, Elitsa Y., Dimova, Raisa, Serpi, Peppi, Koivunen	No
Novel application and serial evaluation of tissue-engineered portal vein grafts in a murine model	Regenerative Medicine	https://www.futuremedicine.com/doi/10.2217/rme-2017-0021	2017	Mark W., Maxfield, Mitchel R., Stacy, Hirotsugu, Kurobe, Shuhei, Tara, Tai, Yi, Muriel A., Cleary, Zhen W., Zhuang, Manuel I., Rodriguez-Davalos, Sukru H., Emre, Yasuko, Iwakiri, Toshiharu, Shinoka, Christopher K., Breuer	No
Protein disulfide isomerase a4 acts as a novel regulator of cancer growth through the procaspase pathway	Oncogene	http://dx.doi.org/10.1038/onc.2017.156	2017	T. F., Kuo, T. Y., Chen, S. T., Jiang, K. W., Chen, Y. M., Chiang, Y. J., Hsu, Y. J., Liu, H. M., Chen, K. K., Yokoyama, K. C., Tsai, H. H., Yeh, Y. R., Chen, M. T., Yang, C. Y., Yang, W. C., Yang	No
Image Monitoring of the Impaired Phagocytic Activity of Kupffer Cells and Liver Oxygen Saturation in a Mouse Cholangitis Model Using Contrast-Enhanced Ultrasound Imaging and Photoacoustic Imaging	Ultrasound in Medicine and Biology		2017	Seunghyun, Lee, Jung Hoon, Kim, Jae Hwan, Lee, Seo Youn, Choi	No
Effect of tanshinone IIA on oxidative stress and apoptosis in a rat model of fatty liver	Experimental and Therapeutic Medicine	http://www.spandidos-publications.com/10.3892/etm.2017.5162	2017	Guan-Lin, Yang, Lian-Qun, Jia, Jin, Wu, Yi-Xin, Ma, Hui-Min, Cao, Nan, Song, Ni, Zhang	No