Title	Journal	Link	Publication date	References	Top Paper
Protocol to detect and quantify tumor hypoxia in mice using photoacoustic imaging	STAR Protocols	https://doi.org/10.1016/j.xpro.2024.102993	2024	Tao, Dai, Laurie J., Rich, Mukund, Seshadri, Subhamoy, Dasgupta	Yes
Ultrasound and Microbubble-Induced Reduction of Functional Vasculature Depends on the Microbubble, Tumor Type and Time After Treatment	Ultrasound in Medicine and Biology	https://doi.org/10.1016/j.ultrasmedbio.2024.09.003	2025	Sofie, Snipstad, Caroline, Einen, Andrea Berge, Kastellet, Jessica Lage, Fernandez, Melina, Mühlenpfordt, Anna, Kurbatskaya, Charlotte, Årseth, Sigrid, Berg, Astrid, Bjørkøy, Catharina de Lange, Davies	Yes
An injectable nanocomposite hydrogel with deep penetration ability for enhanced photothermal and chemotherapy	Journal of Colloid and Interface Science	https://doi.org/10.1016/j.jcis.2025.01.146	2025	Yuru, Chen, Ziteng, Fan, Wenya, Xu, Ziyi, Zhu, Zhen, Tan, Yaqin, Hu, Irina, Kurzina, Nadezhda, Cherdyntseva, Wen Jing, Yang, Lianhui, Wang	Yes
In Vivo Ultrasound and Photoacoustic Imaging of Nanoparticle-Engineered T Cells and Post-Treatment Assessment to Guide Adoptive Cell Immunotherapy	ACS Nano	https://doi.org/10.1021/acsnano.4c12929	2025	Kelsey P., Kubelick, Jinhwan, Kim, Myeongsoo, Kim, Xinyue, Huang, Chenxiao, Wang, Seoyoon, Song, Younan, Xia, Stanislav Y., Emelianov	Yes
Heterogeneous tumor blood oxygenation dynamics during phototherapy deciphered with real-time label-free photoacoustic imaging	npj Acoustics	https://doi.org/10.1038/s44384-025-00012-x	2025	Andrew, Langley, Allison, Sweeney, Ronak T., Shethia, Brooke, Bednarke, Faizah, Wulandana, Marvin, Xavierselvan, Srivalleesha, Mallidi	Yes
Theranostic Phthalocyanine and Naphthalocyanine Nanoparticles for Photoacoustic Imaging and Photothermal Therapy of Tumors	Nanotheranostics	https://doi.org/10.7150/ntno.88892	2024	Yiran, Tian, Nicole, Carrillo-Malani, Kailin, Feng, Joann, Miller, Theresa M., Busch, Karthik M., Sundaram, Zhiliang, Cheng, Ahmad, Amirshaghaghi, Andrew, Tsourkas	Yes
A simple and robust nanosystem for photoacoustic imaging of bladder cancer based on α5β1-targeted gold nanorods	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-023-02028-5	2023	Massimo, Alfano, Elisa, Alchera, Angelina, Sacchi, Alessandro, Gori, Giacomo, Quilici, Irene, Locatelli, Chiara, Venegoni, Roberta, Lucianò, Anna Maria, Gasparri, Barbara, Colombo, Giulia, Taiè, Jithin, Jose, Paolo, Armanetti, Luca, Menichetti, Giovanna, Musco, Andrea, Salonia, Angelo, Corti, Flavio, Curnis	Yes
Carbon dots-mediated synthesis of gold nanodendrites with extended absorption into NIR-II window for in vivo photothermal therapy	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-023-01887-2	2023	Guoyong, Liu, Shuxian, Wang, Shumin, Wang, Rongrong, Wu, Hui, Li, Menglei, Zha, Jibin, Song, Yuxin, Yin, Kai, Li, Jing, Mu, Yu, Shi	Yes
Dual Nanozyme-Driven PtSn Bimetallic Nanoclusters for Metal-Enhanced Tumor Photothermal and Catalytic Therapy	ACS Nano	https://doi.org/https://doi.org/10.1021/acsnano.3c00423	2023	Yanlin, Zhu, Ruoxi, Zhao, Lili, Feng, Chen, Wang, Shuming, Dong, Mikhail V., Zyuzin, Alexander, Timin, Narisa, Hu, Bin, Liu, Piaoping, Yang	Yes
Combination Therapy with a Bispecific Antibody Targeting the hERG1/β1 Integrin Complex and Gemcitabine in Pancreatic Ductal Adenocarcinoma.	Cancers	http://www.ncbi.nlm.nih.gov/pubmed/37046674	2023	Tiziano, Lottini, Claudia, Duranti, Jessica, Iorio, Michele, Martinelli, Rossella, Colasurdo, Franco Nicolás, D'Alessandro, Matteo, Buonamici, Stefano, Coppola, Valentina, Devescovi, Vincenzo, La Vaccara, Alessandro, Coppola, Roberto, Coppola, Elena, Lastraioli, Annarosa, Arcangeli	Yes
Generation of liver metastases in a mouse model using ultrasound-guided intravenous injection	STAR Protocols	https://linkinghub.elsevier.com/retrieve/pii/S2666166723001211	2023	Amanda, Labora, Hailey, Lee, Charlotte, Chan, Erin, Tabornal, Thuc, Le, Khalid, Rashid, Evan, Abt, Takanobu, Yamao, Hanna, Mandl, Amanda, Creech, Alykhan, Premji, Luyi, Li, Jason, Link, Nanping, Wu, Caius, Radu, Timothy, Donahue	Yes
Assessment of Transarterial Chemoembolization Using Super-resolution Ultrasound Imaging and a Rat Model of Hepatocellular Carcinoma	Ultrasound in Medicine & Biology	https://doi.org/10.1016/j.ultrasmedbio.2023.01.021	2023	Katherine G, Brown, Junjie, Li, Ryan, Margolis, Brian, Trinh, John R, Eisenbrey, Kenneth, Hoyt	Yes
Early diagnosis of bladder cancer by photoacoustic imaging of tumor-targeted gold nanorods	Photoacoustics	https://www.sciencedirect.com/science/article/pii/S2213597922000659?via%3Dihub	2022	Elisa, Alchera, Matteo, Monieri, Mirko, Maturi, Irene, Locatelli, Erica, Locatelli, Silvia, Tortorella, Angelina, Sacci, Angelo, Corti, Manuela, Nebuloni, Roberta, Luciano, Filippo, Pederzoli, Francesco, Montorsi, Andrea, Salonia, Sandra, Meyer, Jithin, Jose, Pierangela, Giustetto, Mauro Comes, Franchina, Flavio, Curnis, Massimo, Alfano	Yes
Magnetic black phosphorus microbubbles for targeted tumor theranostics	Nanophotonics	https://www.degruyter.com/document/doi/10.1515/nanoph-2021-0085/html	2021	Yao, Zhu, Yingying, Liu, Zhongjian, Xie, Tianzhen, He, Lili, Su, Fengjuan, Guo, Gulzira, Arkin, Xiaoshu, Lai, Jinfeng, Xu, Han, Zhang	Yes
Morphological, functional, and molecular assessment of breast cancer bone metastases by experimental ultrasound techniques compared with magnetic resonance imaging and histological analysis	Bone	https://www.sciencedirect.com/science/article/pii/S8756328220306098?via%3Dihub#...	2021	Henrik, Heinen, Lisa, Seyler, Vanessa, Popp, Konstantin, Hellwig, Aline, Bozec, Michael, Uder, Stephan, Ellmann, Tobias, Bäuerle	Yes
Cysteine depletion induces pancreatic tumor ferroptosis in mice	Science	https://doi.org/10.1126/science.aaw9872	2020	Michael A., Badgley, Daniel M., Kremer, H., Carlo Maurer, Kathleen E., DelGiorno, Ho Joon, Lee, Vinee, Purohit, Irina R., Sagalovskiy, Alice, Ma, Jonathan, Kapilian, Christina E.M., Firl, Amanda R., Decker, Steve A., Sastra, Carmine F., Palermo, Leonardo R., Andrade, Peter, Sajjakulnukit, Li, Zhang, Zachary P., Tolstyka, Tal, Hirschhorn, Candice, Lamb, Tong, Liu, Wei, Gu, E., Scott Seeley, Everett, Stone, George, Georgiou, Uri, Manor, Alina, Iuga, Geoffrey M., Wahl, Brent R., Stockwell, Costas A., Lyssiotis, Kenneth P., Olive	Yes
Contrast-Enhanced Multispectral Photoacoustic Imaging for Irregular Hepatectomy Navigation: A Pilot Study	ACS Biomaterials Science & Engineering	https://pubs.acs.org/doi/10.1021/acsbiomaterials.0c00921	2020	Yueming, Zhang, Jing, Lv, Pingguo, Liu, Xingyang, Zhao, Kang, Chen, Qiaolin, Li, Liming, Nie, Chihua, Fang	Yes
Tetrazine-Derived Near-Infrared Dye as a Facile Reagent for Developing Targeted Photoacoustic Imaging Agents	Molecular Pharmaceutics	https://doi.org/10.1021/acs.molpharmaceut.0c00441	2020	Samantha, Slikboer, Zoya, Naperstkow, Nancy, Janzen, Amber, Faraday, Yohannes, Soenjaya, Johann, Le Floc'h, Salma, Al-Karmi, Rowan, Swann, Kevin, Wyszatko, Christine E. M., Demore, Stuart, Foster, John F., Valliant	Yes
Quantification of Murine Pancreatic Tumors by High-Resolution Ultrasound	Methods in Molecular Biology	http://link.springer.com/10.1007/978-1-62703-287-2	2013	Stephen A., Sastra, Kenneth P., Olive	Yes
Spectral Signatures in the Different Layers of the Human Eyelid by Photoacoustic Imaging	Lasers in Surgery and Medicine	https://onlinelibrary.wiley.com/doi/abs/10.1002/lsm.23148	2020	Ulf, Dahlstrand, Rafi, Sheikh, Johanna, Berggren, Jenny, Hult, John, Albinsson, Magnus, Cinthio, Malin, Malmsjö	Yes
Indocyanine Green J Aggregates in Polymersomes for Near-Infrared Photoacoustic Imaging	ACS Applied Materials & Interfaces	https://pubs.acs.org/doi/10.1021/acsami.9b14519	2019	Behzad, Changalvaie, Sangheon, Han, Ehsan, Moaseri, Federica, Scaletti, Lauren, Truong, Rosalie, Caplan, Alice, Cao, Richard, Bouchard, Thomas M., Truskett, Konstantin V., Sokolov, Keith P., Johnston	Yes
Label-free Visualization of Early Cancer Hepatic Micrometastasis and Intraoperative Image-guided Surgery by Photoacoustic Imaging	Journal of Nuclear Medicine	http://jnm.snmjournals.org/lookup/doi/10.2967/jnumed.119.233155	2019	Qian, Yu, Shanshan, Huang, Zhiyou, Wu, Jiadi, Zheng, Xiaoyuan, Chen, Liming, Nie	Yes
Development of a Human Photoacoustic Imaging Reporter Gene Using the Clinical Dye Indocyanine Green	Radiology: Imaging Cancer	http://pubs.rsna.org/doi/10.1148/rycan.2019190035	2019	Nivin N., Nyström, Lawrence C.M., Yip, Jeffrey J.L., Carson, Timothy J., Scholl, John A., Ronald	Yes
Evaluation of ductal carcinoma in situ grade via triple-modal molecular imaging of B7-H3 expression	npj Breast Cancer	http://dx.doi.org/10.1038/s41523-020-0158-y	2020	Sunitha, Bachawal, Gregory R., Bean, Gregor, Krings, Katheryne E., Wilson	Yes
Assessment of Metastatic and Reactive Sentinel Lymph Nodes with B7-H3-Targeted Ultrasound Molecular Imaging: A Longitudinal Study in Mouse Models	Molecular Imaging and Biology	http://link.springer.com/10.1007/s11307-020-01478-9	2020	Fengyang, Zheng, Pan, Li, Sunitha V., Bachawal, Huaijun, Wang, Chaolun, Li, Wei, Yuan, Beijian, Huang, Ramasamy, Paulmurugan	Yes
Photoacoustic Imaging Quantifies Drug Release from Nanocarriers via Redox Chemistry of Dye-Labeled Cargo	Angewandte Chemie International Edition	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201914120	2020	Ananthakrishnan Soundaram, Jeevarathinam, Jeanne E., Lemaster, Fang, Chen, Eric, Zhao, Jesse V., Jokerst	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, Vollaire, Yves, Usson, Jean-Luc, Coll, Véronique, Josserand	Yes
Effect of increasing liver blood flow on nanodrug clearance by the liver for enhanced antitumor therapy	Biomaterials Science	http://xlink.rsc.org/?DOI=C8BM01371C	2019	Yongjing, Li, Jiaxun, Wan, Fang, Wang, Jia, Guo, Changchun, Wang	Yes
Serological biomarkers associate ultrasound characteristics of steatohepatitis in mice with liver cancer	Nutrition and Metabolism	https://doi.org/10.1186/s12986-018-0304-9	2018	Guozhen, Cui, Robert C., Martin, Xingkai, Liu, Qianqian, Zheng, Harshul, Pandit, Ping, Zhang, Wei, Li, Yan, Li	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
Intraoperative Resection Guidance with Photoacoustic and Fluorescence Molecular Imaging Using an Anti-B7-H3 Antibody-Indocyanine Green Dual Contrast Agent	Clinical Cancer Research	http://doi.org/10.1158/1078-0432.CCR-18-0417	2018	Katheryne E., Wilson, Sunitha V, Bachawal, Juergen K., Willmann	Yes
Spectroscopic photoacoustic molecular imaging of breast cancer using a B7-H3-targeted ICG contrast agent	Theranostics	https://doi.org/10.7150/thno.18217	2017	Katheryne E., Wilson, Sunitha V., Bachawal, Lotfi, Abou-Elkacem, Kristen, Jensen, Steven, Machtaler, Lu, Tian, Jürgen K., Willmann	Yes

Title	Journal	Link	Publication date	References	Top Paper
Exploration of melanoma metastases in mice brains using endogenous contrast photoacoustic imaging	International Journal of Pharmaceutics	http://dx.doi.org/10.1016/j.ijpharm.2017.08.104	2017	Jonathan, Lavaud, Maxime, Henry, Jean Luc, Coll, Veronique, Josserand	Yes
Assessment of murine colorectal cancer by micro-ultrasound using three dimensional reconstruction and non-linear contrast imaging	Molecular Therapy — Methods & Clinical Development	http://www.nature.com/articles/mtm201670	2016	Jessica L, Freeling, Khosrow, Rezvani	Yes
High Resolution Ultrasound and Photoacoustic Imaging of Orthotopic Lung Cancer in Mice: New Perspectives for Onco-Pharmacology	PLOS ONE	http://dx.plos.org/10.1371/journal.pone.0153532	2016	Florian, Raes, Julien, Sobilo, Marilyne, Le Mée, Stéphanie, Rétif, Sharuja, Natkunarajah, Stéphanie, Lerondel, Alain, Le Pape	Yes
Functional Flow Patterns and Static Blood Pooling in Tumors Revealed by Combined Contrast-Enhanced Ultrasound and Photoacoustic Imaging	Cancer Research	http://www.ncbi.nlm.nih.gov/pubmed/27325651	2016	Avinoam, Bar-Zion, Melissa, Yin, Dan, Adam, F Stuart, Foster	Yes
High-Frequency Ultrasound-Guided Injection for the Generation of a Novel Orthotopic Mouse Model of Human Thyroid Carcinoma	Thyroid	http://online.liebertpub.com/doi/10.1089/thy.2015.0511	2016	Adelaide, Greco, Sandra, Albanese, Luigi, Auletta, Peppino, Mirabelli, Antonella, Zannetti, Crescenzo, D'Alterio, Gennaro, Di Maro, Francesca Maria, Orlandella, Giuliana, Salvatore, Andrea, Soricelli, Marco, Salvatore	Yes
Co-option of Liver Vessels and Not Sprouting Angiogenesis Drives Acquired Sorafenib Resistance in Hepatocellular Carcinoma	Journal of the National Cancer Institute	http://jnci.oxfordjournals.org/lookup/doi/10.1093/jnci/djw030	2016	Elizabeth A., Kuczynski, Melissa, Yin, Avinoam, Bar-Zion, Christina R., Lee, Henriett, Butz, Shan, Man, Frances, Daley, Peter B., Vermeulen, George M., Yousef, F. Stuart, Foster, Andrew R., Reynolds, Robert S., Kerbel	Yes
Ultrasound biomicroscopy permits in vivo characterization of zebrafish liver tumors	Nature Methods	http://www.nature.com/doifinder/10.1038/nmeth1059	2007	Wolfram, Goessling, Trista E, North, Leonard I, Zon	Yes
Intraluminal gel ultrasound and eco-color doppler: new tools for the study of colorectal cancer in mice.	In vivo (Athens, Greece)	http://www.ncbi.nlm.nih.gov/pubmed/23812213	2013	Antonio, Barbieri, Maria Luisa, Barretta, Domenica, Rea, Carmine, Picone, Olimpia, Fabozzi, Giuseppe, Palma, Luciano, Antonio, Alessandro, Federico, Sabrina, Bimonte, Francesca, Setola, Elisabetta, De Lutio Di Castelguidone, Maria, Castellano, Adolfo Gallipoli, D'Errico, Michele, Caraglia, Claudio, Arra	Yes
Three-dimensional high-frequency ultrasound imaging for longitudinal evaluation of liver metastases in preclinical models.	Cancer research	http://www.ncbi.nlm.nih.gov/pubmed/15958568	2005	Kevin C, Graham, Lauren a, Wirtzfeld, Lisa T, MacKenzie, Carl O, Postenka, Alan C, Groom, Ian C, MacDonald, Aaron, Fenster, James C, Lacefield, Ann F, Chambers	Yes
Assessment and Monitoring Tumor Vascularity With Contrast-Enhanced Ultrasound Maximum Intensity Persistence Imaging	Investigative Radiology		2011	Marybeth A, Pysz, Kira, Foygel, Cedric M, Panje, Andrew, Needles, Lu, Tian	Yes
Volume measurement variability in three-dimensional high-frequency ultrasound images of murine liver metastases	Physics in Medicine and Biology	http://www.ncbi.nlm.nih.gov/pubmed/16675858	2006	L a, Wirtzfeld, K C, Graham, a C, Groom, I C, MacDonald, a F, Chambers, A, Fenster, J C, Lacefield	Yes
Anti-VEGF therapy reduces intestinal inflammation in Endoglin heterozygous mice subjected to experimental colitis	Angiogenesis	http://www.ncbi.nlm.nih.gov/pubmed/24510304	2014	Daniela S, Ardelean, Melissa, Yin, Mirjana, Jerkic, Madonna, Peter, Bo, Ngan, Robert S, Kerbel, F Stuart, Foster, Michelle, Letarte	Yes
EFFECT OF SEVOFLURANE ON MIGRATION AND INVASION OF CERVICAL CANCER CELLS IN RATS BY REGULATING HIPPO-YAP/TAZ SIGNALING	The Journal of Animal and Plant Sciences	https://thejaps.org.pk/AbstractView.aspx?mid=2026-JAPS-20	2026	Mengke, Fang, Li, Chen, Shengqiang, Lu	No
Dual enzyme-powered nanomotors for cascade-amplified sonodynamic therapy of prostate cancer	Materials and Design	https://doi.org/10.1016/j.matdes.2026.117392	2026	Ran, Liao, Ronghua, Wu, Zhijun, Zeng	No
High-Resolution Imaging via UHF-US–Based 3D Reconstruction in a 3D In Vivo Tumor Model	International Journal of Biomedical Imaging	https://doi.org/10.1155/ijbi/8763250	2026	Andreas, Ettner-Sitter, Jonas, Kuenzel, Mia, Heidenreich, Lina, Mahl, Luise, Pohnert, Dharini, Srinivasan, Eric, Pion, Robert, Bauer, Dieter, Fuchs, Benedikt J., Wagner, Christian, Gröger, Felix, Steger, Oliver, Kölbl, Thiha, Aung, Christina, Hackl, Silke, Haerteis	No
Nanocatalytic Immunotherapy Targeting Tumor-Resident Intracellular Bacteria for Triple-Negative Breast Cancer Treatment and Metastasis Suppression	Advanced Science	https://doi.org/10.1002/advs.78559	2026	Xiaojing, Leng, Tao, Jiang, Zhao, Guo, Zhimin, Zhang, Yihan, Chen, Pan, Li, Min, Ge, Han, Lin, Liang, Zhang	No
Intratumoral therapeutic dust for chemo-photodynamic combination treatment	Sci. Adv	https://www.science.org	2026	Rui, Lin, Pingjin, Zou, Junyang, Chen, Zhixian, Jiang, Kui, Chen, Bin, Tang, Zhihe, Long, Qian, Han, Zengyi, Fang, Miao, Yu, Songbo, Zhang, Zhuoxuan, Li, Hui, Li, Jinyi, Lang, Hao, Wang, Lili, Xing, Meihua, Chen, Xinyu, Xue	No
HDACs-targeting photosensitizer-based local-therapy augmenting photoimmunotherapy in bladder cancer	Materials Today Advances	https://doi.org/10.1016/j.mtadv.2026.101004	2026	Yuanming, Chen, Yang, Yu, Wentao, Xu, Lianfeng, Fan, Qiyu, Chen, Mingming, Lou, Minjia, Wang, Tianming, Cheng, Leilei, Shi, Bangmin, Han, Hai, Bi	No
Photodynamic immune stimulation eradicates primary pigmented melanoma and induces long-lasting anti-tumor immunity	British Journal of Cancer	https://doi.org/10.1038/s41416-026-03585-w	2026	L., Pires, C., Calcada, B., Cerqueira-Rodrigues, Y., Fan, J. T., George, T., McGaha, B. C., Wilson	No
Promoting tumor antigen presentation unleashes therapeutic efficacy of Tgfbr2-deficient TCR-engineered T cells in pancreatic ductal adenocarcinoma	Journal for ImmunoTherapy of Cancer	https://doi.org/10.1136/jitc-2026-015489	2026	Alexander K., Tsai, Meagan R., Rollins, Madeline A., Ellefson, Zoe C., Schmiechen, Adam L., Burrack, Ayaka, Hulbert, Guhan, Qian, Hongrong, Zhang, Eduardo, Cruz-Hinojoza, Jonah Z., Butler, Jason S., Mitchell, Olivia C., Ghirardelli Smith, Stephen D., O'Flanagan, Jenny, Krause, Grant H., Hickok, Paolo P., Provenzano, David, Masopust, Sunil R., Hingorani, Philip D., Greenberg, Ingunn M., Stromnes	No
Jurnal Medik Veteriner conditions of the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License (CC BY-NC-SA Establishment of an orthotopic C3H mouse model of lung cancer using Lewis lung carcinoma (LLC) cells		https://creativecommons.org/licenses/by-nc-sa/4.0/	2026	Ulayatul, Kustiati, Hevi, Wihadmadyatami, Dwi, Liliek Kusindarta, Dwi, Aris, Agung, Nugrahaningsih,), Jurnal, Medik, Veteriner	No
Design, synthesis and preclinical evaluation of small-molecule FAP-targeted photosensitizers for photodynamic therapy	European Journal of Medicinal Chemistry	https://linkinghub.elsevier.com/retrieve/pii/S0223523426008561	2027	Robin, Schenker, Jelmer, de Greeff, Gerben M., Franssen, Cathelijne, Frielink, Felix, Boerman, Kimberly M., Bonger, Dennis W.P.M., Löwik, Sanne A.M., van Lith	No
Dual actionability of BMI1 activation and mitotic vulnerability defines adaptive Osimertinib resistance in EGFR-mutant NSCLC	Cell Death & Disease	https://doi.org/10.1038/s41419-026-08952-2	2026	Paolo, Armanetti, Eva, Cabrera San Millan, Maddalena, Di Nardo, Raffaella, Mercatelli, Chiara, Cavallini, Stefania, Crucitta, Marzia, Del Re, Alice, Chiodi, Ettore, Mosca, Arianna, Consiglio, Nicola, Losito, Antonio, Musio, Luca, Menichetti, Emilia, Bramanti, Azhar, Ali, Elena, Levantini, Giorgia, Maroni	No
Super-Resolution Ultrasound Based Cell Tracking With Polymeric Nanobubbles	Advanced Materials	https://doi.org/10.1002/adma.73639	2026	Junlin, Chen, Xiaoyu, Wang, Jilin, Fan, Bi, Wang, Hanghang, Fang, Yurui, Wang, Hao, Cui, Mohammad, Roufarshbaf, Ekaterina, Savina, Alexandra, Valeske, Quim, Peña, Yang, Shi, Andreas, Herrmann, Twan, Lammers, Mathias, Hornef, Roman, Barmin, Thomas, Lisson, Georg, Schmitz, Anne, Rix, Fabian, Kiessling	No
Hypoxia-adaptive albumin nanosystem modulates lactate metabolism to in situ activate postoperative immunotherapy	Materials and Design	https://doi.org/10.1016/j.matdes.2026.116386	2026	Dezhou, Wu, Xinchang, Huang, Jinwei, Zhang, Dengke, Zhang, Song, Peng, Wei, Tang, Huanan, Li	No
VSIG4 suppresses antitumor T cell immunity via the SLC3A2-dependent metabolic-ionic checkpoint	Journal for immunotherapy of cancer	https://doi.org/10.1136/jitc-2025-013562	2026	Guoling, Huang, Ruirui, He, Wei, Wang, Heping, Wang, Yangyang, Li, Bo, Zeng, Panyin, Shu, Ting, Pan, Ming, Yi, Lingyun, Feng, Zhihui, Cui, Xi, Li, Yanyun, Du, Hong, Jiang, Xue, Xiao, Yuan, Wang, Chenhui, Wang	No
Integrated stress response couples mitochondrial fitness with lineage reprogramming to drive cancer evolution	Nature Cell Biology	https://doi.org/10.1038/s41556-026-01991-z	2026	Shiqi, Diao, Jia Yi, Zou, Shuo, Wang, Jason E., Chan, Roderik M., Kortlever, Nicolas, Poulain, Nour, Ghaddar, Hyungdong, Kim, Gerard I., Evan, Constantinos, Koumenis, Maria, Hatzoglou, Peter, Walter, Nahum, Sonenberg, John, Le Quesne, Tuomas, Tammela, Antonis E., Koromilas	No
Dual inhibition of PRMT1 and SUV39H1 suppresses breast cancer progression and enhances immunotherapy response	International journal of biological sciences	https://doi.org/10.7150/ijbs.130955	2026	Ge, Wang, Jiagui, Song, Xinwei, Duan, Kunhao, Zhou, Jing, Zhang, Hongquan, Zhang, Yu, Yu	No
Machine-intelligent multimodal algebot for intracavitary chemotherapy	Nature Nanotechnology	https://doi.org/10.1038/s41565-026-02195-0	2026	Lin, Lin, Haohui, Li, Qi, Zhou, Qi, Ding, Xiang, Sun, Jing, Hu, Zhangli, Zhao, Yaning, Qin, Tiancheng, Jiang, Honghao, Ye, Xiaozhen, Wu, Honghan, Liu, Lu, Huang, Chenghao, Huang, Yahui, Gao, Jinyao, Tang, Xing, Ma, Xiaohui, Yan	No

Title	Journal	Link	Publication date	References	Top Paper
HSP47 is a potential dual cell target and prognostic factor in pancreatic cancer	Oncogene	https://doi.org/10.1038/s41388-026-03865-y	2026	George, Sharbeen, Estrella, Gonzales-Aloy, Janet, Youkhana, John, Kokkinos, Rosa Mistica C., Ignacio, Joshua A., McCarroll, Aparna S., Raina, Chantal, Kopecky, Jie, Liu, Amanda, Mawson, Andrea, Nunez, Cyrille, Boyer, Mert, Erkan, David, Goldstein, Koroush S., Haghighi, Paul, Timpson, Sean C., Warren, Kendelle J., Murphy, Anthony J., Gill, Amber L., Johns, Angela, Chou, Elvis, Pandzic, Sandra, Fok, Renee, Whan, Val, Gebski, Jennifer P., Morton, Minoti, Apte, Phoebe A., Phillips	No
Lithocholic acid-activated VDR in macrophages promotes HCC recurrence post-ablation via SOCS3-mediated suppression of CXCL16	Journal for ImmunoTherapy of Cancer	https://doi.org/10.1136/jitc-2026-015177	2026	Rumei, Li, Wanrong, Luo, Zhaoxi, Li, Sui, Zheng, Man, Luo, Qiuxia, Wei, Xiaotong, Zhu, Wenyue, Zhang, Baoming, Luo	No
Intratumoral TIGIT blockade augments antitumor responses and bypasses increased functionality of peripheral TIGIT+ NK cells in mouse and human models of bone and soft tissue sarcoma	Journal for ImmunoTherapy of Cancer	https://jitc.bmj.com/lookup/doi/10.1136/jitc-2025-013597	2026	Marshall L, Lammers, Cyrus J, Sholevar, Makan, Karimzadeh, Aryana M, Razmara, Sylvia M, Cruz, Megan C, Purl, Natalie M, Liu, Danika, Bakke, Rosemary N, Plagens, Andrew, Elliott, Michael K, Sheng, Clemens Van, Dongen, Trung, Tran, Annie Truc, Trinh, Ryan N, Nielsen, Tushar, Kotamraju, Lauren E, Farley, Khurshid R, Iranpur, Tasneem, Mukarrama, Alessandro, Gronchi, Richard F, Riedel, Arta M, Monjazeb, Steven W, Thorpe, Morgan A, Darrow, Jinhwan, Kim, William J, Murphy, Sean J, Judge, Robert J, Canter	No
Multimodal imaging-guided NIR-II photo-gas nanoplatform amplifies PD-1 blockade for synergistic TNBC therapy	Theranostics	https://doi.org/10.7150/thno.133453	2026	Linlin, Song, Meixu, Chen, Huiling, Wang, Xin, Wang, Tianyue, Xu, Heqing, Zhang, Shuwen, Ran, Liwen, Huang, Yingying, Ma, Zhihui, Liu, Zihan, Xu, Yujie, Zhao, Zichang, Liu, Yong, Luo, Xiujun, Yu, Yulan, Peng, Hubing, Shi, Jing, Jing, Xiujing, He	No
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
A Bioorthogonal and Programmable Bacterial Delivery System for Spatiotemporally Targeted Therapy of Solid Tumors	Exploration	https://doi.org/10.1002/EXP.20240396	2025	Yu Jia, Wang, Wen Jie, Jiang, Hua Jun, Zhao, Jian Qun, Deng, Yi Min, Cai, Yi, Li, Xiao Lin, Meng, Jin, Hou, Feng Shan, Wang, Ju Zheng, Sheng	No
Contrasting temporal dynamics of fluorescence and photoacoustic signals from Cetuximab-IRDye800 conjugate in EGFR-overexpressing tumors	Sci. Adv	https://www.science.org	2026	Mohammad A, Saad, Derek, Allen, Allison, Sweeney, Marvin, Xavierselvan, Srivalleesha, Mallidi, Tayyaba, Hasan	No
Three-dimensional oxygen maps of tumors in real time – Analysis in the context of active tumor vasculature	Computer Methods and Programs in Biomedicine	https://doi.org/10.1016/j.cmpb.2026.109396	2026	Gabriela, Dziurman, Natalia, Radzikowska, Agnieszka, Drzał, Aleksandra, Murzyn, Piotr, Świerzewski, Małgorzata, Szczygieł, Bożena, Romanowska-Dixon, Martyna, Krzykawska-Serda, Martyna, Elas	No
Lipoic acid-engineered nanodroplets for multimodal imaging and enhanced sonodynamic therapy in melanoma treatment	Theranostics	https://www.thno.org/v16p5278.htm	2026	Ziyao, Wang, Yongchao, Yao, Ziyan, Feng, Yulong, Liao, Liyun, Wang, Xueyang, Xiao, Wenchuang, Hu, Zhiyong, Qian, Li, Qiu	No
Targeting GPR34 in damage-associated macrophages enhances anti-tumor immunity and the efficacy of Surufatinib in pancreatic cancer	Signal Transduction and Targeted Therapy	https://doi.org/10.1038/s41392-026-02641-4	2026	Xiaofan, Guo, Yuxiao, Liu, Tianchen, Li, Xiaopeng, An, Yuning, Song, Peijun, Xu, Jing, Huang, Yiping, Zou, Bohang, Xu, Yongjie, Xie, Zekun, Li, Chenyang, Meng, Tiansuo, Zhao, Xiuchao, Wang, Hongwei, Wang, Chuntao, Gao, Xuan, Zhou, Jun, Yu, Song, Gao, Jihui, Hao	No
High-frequency ultrasound for microcirculation in metastatic mouse lymph node: contrast-free versus contrast-enhanced imaging	Scientific Reports	https://doi.org/10.1038/s41598-025-27268-3	2025	Kazuki, Maeda, Masaaki, Omura, Ariunbuyan, Sukhbaatar, Tsuyoshi, Sugiura, Tetsuya, Kodama	No
Inhibiting B cells enhances the efficacy of STING agonism or immune checkpoint blockade in hepatocellular carcinoma	Nature Communications	https://doi.org/10.1038/s41467-025-66581-3	2025	Xin, Liu, Zelong, Liu, Chengzhan, Zhu, Tatsuya, Kobayashi, Pin Ji, Lei, Yue, Shi, Dandan, Yuan, Jianguo, Wang, Min, Li, Aya, Matsui, Kassiana, Mafra, Tomofumi, Ando, Ken, Kojo, Rieke, Schleinhege, Kento, Miyazaki, Peigen, Huang, Ming, Kuang, Lloyd, Bod, Dan G., Duda	No
A bypass gateway from cholesterol to sex steroid biosynthesis circumnavigates CYP17A1	Nature Communications	https://doi.org/10.1038/s41467-025-66558-2	2025	Ziqi, Zhu, Yoon Mi, Chung, Mohammad, Alyamani, Yijing, Dai, Kevin D., McCarty, Evan, Roberts, Sunita, Sinha, Jianneng, Li, Xiuxiu, Li, Emad M., Gad, Zhiqun, Zhou, Jinyuan, Shi, Robert A., Burgess, Tatiana Y., Hargrove, Galina I., Lepesheva, F. Peter, Guengerich, Richard J., Auchus, Nima, Sharifi	No
From 2D to 3D: Automated ultrasound segmentation and cross-sectional validation in murine tumor models	Computer Methods and Programs in Biomedicine	https://doi.org/10.1016/j.cmpb.2026.109403	2026	Weronika, Smolak-Dyżewska, Jerzy, Bazak, Wiktoria, Brandys, Aleksandra, Bienia, Aleksandra, Murzyn, Bartosz, Płóciennik, Gniewosz, Drwięga, Julia, Kozik, Agnieszka, Drzał, Bartosz, Leszczyński, Przemysław, Spurek, Martyna, Elas, Martyna, Krzykawska-Serda	No
Acoustic delivery of indocyanine green via biosynthetic gas vesicles for tumor photothermal therapy	PLOS Biology	https://dx.plos.org/10.1371/journal.pbio.3003786	2026	Jiaqi, Zhang, Licong, Huang, Shuhui, Wang, Jingwen, Ding, Yuping, Yang, Chenhui, Li, Ping, Zhao, Qian, Li, Fei, Yan	No
Implantable Microdevices for In Vivo Assessment of Chemotherapy Response in Patient Derived Organoid Orthotopic Pancreatic Cancer Models	Annals of Surgery	https://journals.lww.com/10.1097/SLA.0000000000007071	2026	Oliver J., Standring, Julien T., Hohenleitner, Lyudmyla, Demyan, Shruti, Koti, Nandan, Vithlani, Taemoon, Chung, Amber N., Habowski, Taehoon, Ha, Sepideh, Gholami, James M., Crawford, Youngkyu, Park, Oliver, Jonas, Zhen, Zhao, Scott K., Lyons, Daniel A., King, David A., Tuveson, Matthew J., Weiss	No
Targeting the Notch1-YY1-ICAM1 Signaling Axis Enhances the Efficacy of Immunotherapy in HCC by Activating CD8+ T-Cell-Driven Cancer Cell Pyroptosis	Advanced Science	https://doi.org/10.1002/advs.202512845	2025	Ke, Zhu, Fa Peng, Zhang, Chao, Qin, Zhi Xiao, Song, Cai Ni, Yang, Shu Sheng, Lin, Xian Huan, Yu, Wen Rui, Wu, Chao Qun, Liu, Chao, Liu, Lei Bo, Xu	No
Targeting tumor-intrinsic BCL9 reverses immunotherapy resistance by eliciting macrophage-mediated phagocytosis and antigen presentation	Nature Communications	https://doi.org/10.1038/s41467-025-65945-z	2025	Sui Yi, Wu, Yuan Yuan, Zhu, Jia Lei, Sun, Chun Yan, Wang, Yu Lei, Wang, Yan Yan, Nie, Fei, Song, Xun, Huang, Zhong, Chen, Tian, He, Li An, Shen, Yang, Xu, Cheng, Huang, Shuang Jian, Qiu, Jian, Zhou, Andrew X., Zhu, Jia, Fan, Di, Zhu, Bo, Hu, Xin Rong, Yang	No
Demonstration of SLU7 as a new cancer target	Biomedicine and Pharmacotherapy	https://doi.org/10.1016/j.biopha.2025.118854	2025	Carla, Rojo, Aaron, Otero, Maria, Elizalde, Maria, Azkona, Roberto, Barbero, Maria U., Latasa, Iker, Uriarte, Alvaro, Gutierrez-Uzquiza, Diego, Alignani, Laura, Guembe, Amaia, Lujambio, Fernando, Pastor, Maite G., Fernández-Barrena, Matias A., Ávila, Maria, Arechederra, Carmen, Berasain	No
Local Delivery of miR-27a* Using Ultrasound-Targeted Microbubble Cavitation Inhibits Squamous Cell Carcinoma Growth	Ultrasound in Medicine and Biology	https://doi.org/10.1016/j.ultrasmedbio.2025.10.018	2026	Nikhil S., Chari, Cheng, Chen, Thiruganesh, Ramasamy, Xucai, Chen, Geetika, Wadhwa, Anurag N., Paranjape, Stephen Y., Lai, Flordeliza S., Villanueva	No
Magnetic hyperthermia using iron oxide nanoparticles via LDDS suppressed lymph node and lung metastasis in a mouse model	Scientific Reports	https://doi.org/10.1038/s41598-025-25808-5	2025	Akihiro, Kuwahata, Ariunbuyan, Sukhbaatar, Akihiro, Shikano, Loi, Tonthat, Takayuki, Kagami, Riku, Shinohara, Shiro, Mori, Shin, Yabukami, Tetsuya, Kodama	No
Development of AuxCuyPdz Nanocomposites as Therapeutic Agents: Enhancing Cancer Treatment through Autophagy Modulation and Immune-Associated Effects	ACS Applied Materials and Interfaces	https://doi.org/10.1021/acsami.5c20536	2026	Li Xing, Yang, Yi Chun, Chiu, Yi Lun, Chen, Ting Ying, Chen, Yi Tseng, Tsai, Yu Cheng, Chin, Ya Ling, Yeh, Ying Jan, Wang, Chih Chia, Huang, Rong Jane, Chen, Mei Yi, Liao	No
Systematic design of combination therapy by targeting master regulators of coexisting diffuse midline glioma cell states	Nature Genetics	https://doi.org/10.1038/s41588-026-02550-w	2026	Ester, Calvo Fernández, Lorenzo, Tomassoni, Xu, Zhang, Junqiang, Wang, Aleksandar, Obradovic, Pasquale, Laise, Aaron T., Griffin, Lukas, Vlahos, Hanna E., Minns, Diana V., Morales, Christian, Simmons, Matthew, Gallitto, Hong Jian, Wei, Timothy J., Martins, Pamela S., Becker, John R., Crawford, Theophilos, Tzaridis, Robert J., Wechsler-Reya, James, Garvin, Robyn D., Gartrell, Luca, Szalontay, Stergios, Zacharoulis, Cheng Chia, Wu, Zhiguo, Zhang, Andrea, Califano, Jovana, Pavisic	No

Title	Journal	Link	Publication date	References	Top Paper
Close-to-Patient Models for Gastric Cancer: From Patient-Derived Xenograft Towards a Novel Gastric Cancer Mini-Tumor Model	OncoTargets and Therapy	https://doi.org/10.2147/OTT.S586407	2026	Sarah K., Hakuno, Joëlle, Zonneveld, Stefanus G.T., Janson, Anthea, Van der Wielen, Eleonore B., Kuhlemaijer, Maud, Steenbakkers, Leonie, Plug, Eveline, De Jonge-Muller, Eduard P., De Winter, Margreet R., De Vries, Tom, Van Wezel, Stijn, Crobach, Lukas J.A.C., Hawinkels, Andrea, Vallés-Martí, Marije, Slingerland	No
Stretching inhibits tumor growth in MMTV-PYMT via a direct mechanical effect	BMC Biology	https://link.springer.com/10.1186/s12915-026-02543-5	2026	Lisbeth, Berrueta, Chandra, Bhan, Yi, He, Rebecca D., Thompson, Oscar, Safairad, Andrew D., Doyle, Paola, Pérez, Daniel, Martin, Mazen, Mezher, Alexander, Cartagena-Rivera, Gary J., Badger, Helene M., Langevin	No
O-GlcNAcylation expression predicts a favorable prognosis and mitigates malignant phenotypes via MYCN suppression in neuroblastoma	Molecular and Cellular Pediatrics	https://doi.org/10.1186/s40348-026-00218-3	2026	Neng Yu, Lin, Hsiu Hao, Chang, Chia Yeh, Hsieh, Hsiu Ling, Chang, Wan Ling, Ho, Yen Lin, Liu, Pei Yi, Wu, Chi Tai, Yeh, Min Chuan, Huang, Wen Ming, Hsu	No
Ultrasound-propelled oncolytic biomimetic microbubbles as in situ vaccines reprogram tumor immunosuppressive microenvironment	Materials Today Bio	https://doi.org/10.1016/j.mtbio.2026.102923	2026	Li, Wan, Ping, Liang, Chunyu, Xia, Liliang, Yu, Rui, Tang, Xintong, Li, Chenchen, Tang, Nianhong, Wu, Zeyan, Huang, Jimei, Chen, Ruqian, Fu, Mingke, Jiao, Jie, Hu, Pan, Li, Rui, Li	No
Enhanced Delivery of Lipid Nanoparticle-Based Immunotherapy by Modulating the Tumor Tissue Stiffness Using Ultrasound-Activated Nanobubbles	ACS nano	https://doi.org/10.1021/acsnano.5c21787	2026	Anubhuti, Bhalotia, Diarmuid W., Hutchinson, Theresa, Kosmides, Pinunta, Nittayacharn, Meghna, Mehta, Arya, Iyer, Andrew, Cheplyansky, Koki H., Takizawa, Abraham, Nidhiry, Anna M., Dever, Kyle A., Cousens, Inga M., Hwang, Gopalakrishnan, Ramamurthy, Agata A., Exner, Efstathios, Karathanasis	No
Polymorphism control in crystalline clofazimine enables accelerated clinical translation of NIR-II phototheranostics	Acta Pharmaceutica Sinica B	https://linkinghub.elsevier.com/retrieve/pii/S2211383526001693	2026	Bowen, Fu, Xuanshang, Lu, Xiangyu, Pei, Jiantao, Meng, Yuhan, Yang, Wei, Long, Hao, Zhai, Ying, Wan, Minshan, Guo, Yayun, Peng, Ting, Cai	No
Liposomal J-Aggregates of Indocyanine Green as a Multifunctional Contrast Agent for Photoacoustic Imaging and Photothermal Therapy	Nanotheranostics	https://doi.org/10.7150/ntno.123184	2026	Noah, Stern, Binita, Shrestha, Susan, Burrell, James, Tunnell, Tyrone, Porter	No
Antitumor Activity of the Ethanolic Extract from Syzygium aromaticum in Colorectal Cancer Xenograft Mice	Pharmaceutics	https://doi.org/10.3390/pharmaceutics18010079	2026	Thunyatorn, Yimsoo, Weerakit, Taychaworaditsakul, Hathaichanok, Chuntakaruk, Worapapar, Treesuppharat, Sumet, Kongkiatpaiboon, Apipu, Ariyachayut, Sunee, Chansakaow, Teera, Chewonarin, Parirat, Khonsung, Seewaboon, Sireeratawong	No
Autophagy Plays a Suppressive Role in Bladder Tumor Formation in an Orthotopic Mouse Model and Bladder Cancer Patient Specimens	Kaohsiung Journal of Medical Sciences	https://doi.org/10.1002/kjm2.70179	2026	Wan Ting, Kuo, Chin Chen, Pan, Yi Wen, Liu, Nan Haw, Chow, Hong Lin, Cheng, Shan Ying, Wu, Sheng Hui, Lan, Chih Peng, Chang, Hsiao Sheng, Liu	No
In situ self-assembled cell reservoir hydrogel for maneuvering multistage radioimmunotherapy	Nature Communications	https://www.nature.com/articles/s41467-026-68490-5	2026	Yue, Chen, Qinyi, Chen, Yuanyuan, Ma, Cheng, Zhang, Jie, Xu, Kejing, Li, Yajie, Sun, Xinge, Su, Mingguang, Wei, Rui, Bao, Tong, Ding, Longguang, Tang, Wenying, Yu, Shenghong, Ju, Wenpei, Fan	No
Theranostic nanoplatform for high-performance dual-modal magnetic resonance imaging-guided therapy of orthotopic hepatocellular carcinoma	BMEMat	https://doi.org/10.1002/bmm2.70061	2026	Jiayin, Lin, Wenbo, Chen, Xiuqi, Hou, Kai, Wang, Fan, Liu, Ruling, Zhang, Zhong, Cao, Jian, Zheng	No
Crotonate suppresses breast cancer metastasis and promotes immunotherapy response by inducing ACSS2-mediated EZH2-K348 crotonylation	Sci. Adv	https://www.science.org	2026	Bo, Liu, Xinwei, Duan, Ge, Wang, Youzhi, Tang, Kunhao, Zhou, Jing, Zhang, Yu, Yu, Hongquan, Zhang	No
L19-Conjugated Gold Nanoparticles for the Specific Targeting of EDB-Containing Fibronectin in Neuroblastoma	Pharmaceutics	https://doi.org/10.3390/pharmaceutics18010024	2025	Chiara, Barisione, Silvia, Ortona, Veronica, Bensa, Caterina, Ivaldo, Eleonora, Ciampi, Simonetta, Astigiano, Michele, Cilli, Luciano, Zardi, Mirco, Ponzoni, Domenico, Palombo, Giovanni, Pratesi, Pier Francesco, Ferrari, Fabio, Pastorino	No
Application of group A streptococcal collagen-like protein 1-expressing Lactococcus as a novel immunotherapeutic against pancreatic ductal adenocarcinoma	Scientific Reports	https://www.nature.com/articles/s41598-026-36657-1	2026	Emily A., Godfrey, Soo Jeon, Choi, Michael, Sestito, Tracy W., Liu, Slawomir, Lukomski, Brian A., Boone	No
Shifting the paradigm of PSMA delivery in prostate cancer for internal radiotherapy: An innovative ultrasound-mediated approach	Biomedicine & Pharmacotherapy	https://linkinghub.elsevier.com/retrieve/pii/S0753332226001071	2026	Sophie, Tran, Anne-Laure, Grindel, Dimitri, Kereselidze, Laurène, Jourdain, Caroline, Denis, Benoit, Jego, Soizic, Martin-Aubert, Jean-Luc, Gennisson, Jean-Michel, Daugas, Anthony, Novell, Charles, Truillet	No
Photothermal Therapy Combined with Chemotherapy and Anti-Inflammation Therapy Weakens the Immunosuppression of Cervical Cancer	Pharmaceuticals	https://doi.org/10.3390/ph18111657	2025	Xiaojing, Yang, Jie, Fu, Yi, Xu, Dejian, Li, Hanru, Ren	No
Transcription factor switching drives subtype-specific pancreatic cancer	Nature Genetics	https://doi.org/10.1038/s41588-025-02389-7	2025	Shalini V., Rao, Lisa, Young, Danya, Cheeseman, Sean, Flynn, Niklas, Krebs, Dominique Laurent, Couturier, Stephanie, Mack, Rebecca, Brais, Jill, Temple, Amy, Smith, Evangelia, Papachristou, Catarina, Pelicano, Chandra Sekhar Reddy, Chilamakuri, Krzysztof, Herka, Hideo, Baba, Luay, Farah, Phyllis F., Cheung, Jens, Siveke, Stéphane, Guerrier, Luca, Insolia, Michael, Gill, Emily, Archer Goode, Steven, Kupczak, Yi, Cheng, Giacomo, Borsari, Duncan, Jodrell, Clive, D'Santos, Alasdair, Russell, Barbara T., Grünwald, Eva, Serrao, Igor, Chernukhin, Jason S., Carroll	No
Engineered cyclic peptide targeting ITGA5 disrupts tumor-stroma interaction to overcome desmoplasia and resistance in pancreatic ductal adenocarcinoma	Acta Pharmaceutica Sinica B	https://doi.org/10.1016/j.apsb.2025.10.022	2025	Deby Fajar, Mardhian, Kunal P., Pednekar, Ahmed G., Hemdan, Praneeth Reddy, Kuninty, Saadia A., Karim, Sabine, de Winter, Josbert M., Metselaar, Jennifer P., Morton, Jai, Prakash	No
Assessing Vessel Reconstruction in Ultrasound Localization Microscopy by Maximum Likelihood Estimation of a Zero-Inflated Poisson Model	IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control	https://doi.org/10.1109/TUFFC.2020.2980063	2020	Stefanie, Dencks, Marion, Piepenbrock, Georg, Schmitz	No
Fe-doped phase-transition nanodroplets for synergistic photothermal and starvation-enhanced ferroptosis in cancer therapy	Journal of nanobiotechnology	https://doi.org/10.1186/s12951-025-03726-y	2025	Yuhang, Tian, Xiang, He, Yanchi, Yuan, Chunyue, Wang, Mengchi, Zhang, Hui, Jiang, Huajing, Yang, Kuikun, Yang, Hui, Jing	No
Combination LIGHT overexpression and checkpoint blockade disrupts the tumor immune environment impacting colorectal liver metastases	Sci. Adv	https://www.science.org	2025	Bridget P, Keenan, Guilin, Qiao, Nicholas, Kunda, Lyonell, Kone, Sophia M, Guldberg, Letizia, Todeschini, Prabhakaran, Kumar, Tommaso, Pollini, Sophia, Hernandez, Jianzhong, Qin, Lawrence, Fong, Matthew H, Spitzer, Bellur S, Prabhakar, Ajay V, Maker	No
HSF1-DBC1 axis drives prostate cancer progression by activating a metastatic transcriptional program	Experimental and Molecular Medicine	https://doi.org/10.1038/s12276-025-01545-7	2025	Sue Jin, Moon, Hwa Jin, Kim, Joung Eun, Lim, Sanghoon, Hong, Hong Hee, Won, Byong Chang, Jeong, Jeong Hoon, Kim	No
Synthesis and Photophysical Characterization of Axially Functionalized Silicon(IV) Naphthalocyanines with Phototheranostic Potential	ChemistryEurope	https://doi.org/10.1002/ceur.202500249	2025	Pedro M. R., Santos, Benjamin, Proto, Debalina, Mondal, Alicia, Voge, Christine, Hoskin, Hanyi, Weng, Inês R. M., Santos, Kevin, Stamplecoskie, João P. C., Tomé, Juan, Chen, Nahyun, Kwon, Gang, Zheng	No
Photoactivated Gas-Generating Nanocontrast Agents for Long-Term Ultrasonic Imaging-Guided Combined Therapy of Tumors	ACS Nano	https://doi.org/10.1021/acsnano.4c01041	2024	Binbin, Chu, Zhiming, Chen, Xiaofeng, Wu, Haoliang, Shi, Xiangbowen, Jin, Bin, Song, Mingyue, Cui, Yadan, Zhao, Yingying, Zhao, Yao, He, Houyu, Wang, Fenglin, Dong	No
Docetaxel-Encapsulated Catalytic Pt/Au Nanotubes for Synergistic Chemo-Photothermal Therapy of Triple-Negative Breast Cancer	Advanced Healthcare Materials	https://doi.org/10.1002/adhm.202400662	2024	Haiyan, Yang, Qian, Zhang, Liwei, Dai, Yazi, Wang, Guangrong, Zheng, Xinyue, Zhang, Di, Zheng, Xiaojuan, Ji, Yutao, Sang, Zhihong, Nie	No
PLGA Nanoplatform for the Hypoxic Tumor Delivery: Folate Targeting, Therapy, and Ultrasound/Photoacoustic Imaging	ACS Applied Bio Materials	https://doi.org/10.1021/acsabm.4c00853	2024	Abhishesh Kumar, Mehata, Jyoti, Bonlawar, Rupen, Tamang, Ankit Kumar, Malik, Aseem, Setia, Shailendra, Kumar, Ranadheer Reddy, Challa, Bhaskar, Vallamkonda, Biplob, Koch, Madaswamy S., Muthu	No
Inhomogeneous Au2S for Photoacoustic Imaging and Photodynamic Tumor Therapy Based on Different Forms of Energy Dissipation	ACS Nano	https://doi.org/10.1021/acsnano.3c13085	2024	Ling, Chang, Chao, Liu, Zhaokui, Jin, Kun, Li, Xiang, Ling	No
Photoactivated Formation of an Extravascular Dynamic Hydrogel as an Intelligent Blood Flow Regulator to Reprogram the Immunogenic Landscape	Nano Letters	https://doi.org/10.1021/acs.nanolett.4c00376	2024	Yue, Chen, Ajun, Xiang, Yuanyuan, Ma, Zhengzheng, Qian, Zerui, Ma, Liming, Zhou, Jue, Wang, Hao, Li, Mei, Zhou, Zhenyu, Hou, Xin, Liu, Can, Zhang, Longguang, Tang, Shenghong, Ju, Wenpei, Fan	No

Title	Journal	Link	Publication date	References	Top Paper
Redox-Sensitive Poly(lactic-co-glycolic acid) Nanoparticles of Palbociclib: Development, Ultrasound/Photoacoustic Imaging, and Smart Breast Cancer Therapy	Molecular Pharmaceutics	https://doi.org/10.1021/acs.molpharmaceut.3c01086	2024	Piyush, Dhamija, Abhishesh Kumar, Mehata, Rupen, Tamang, Jyoti, Bonlawar, None, Vaishali, Ankit Kumar, Malik, Aseem, Setia, Shailendra, Kumar, Ranadheer Reddy, Challa, Biplob, Koch, Madaswamy S., Muthu	No
In Vivo Combined Photoacoustic Imaging and Photothermal Treatment of HPV-Negative Head and Neck Carcinoma with NIR-Responsive Non-Persistent Plasmon Nano-Architectures	Advanced Therapeutics	https://doi.org/10.1002/adtp.202400110	2024	Valentina, Frusca, Chiara, Cavallini, Agata, Zamborlin, Giuliana, Drava, Virginia, Barone, Lisa, Gherardini, Mario, Chiariello, Paolo, Armanetti, Maria Laura, Ermini, Luca, Menichetti, Valerio, Voliani	No
Dual-Functional Nanodroplet for Tumor Vasculature Ultrasound Imaging and Tumor Immunosuppressive Microenvironment Remodeling	Advanced Healthcare Materials	https://doi.org/10.1002/adhm.202401274	2024	Yuan, Liang, Siyan, Zhang, Dingyi, Wang, Panpan, Ji, Bin, Zhang, Pengying, Wu, Lantian, Wang, Zhaoyou, Liu, Jia, Wang, Yunyou, Duan, Lijun, Yuan	No
Influence of Phase Change Droplet Activation and Microbubble Cavitation on the Microenvironment of Hepatocellular Carcinoma	Ultrasound in Medicine and Biology	https://doi.org/10.1016/j.ultrasmedbio.2024.05.015	2024	Hebah A., Falatah, Quezia, Lacerda, Corinne E., Wessner, Standley, Lo, Margaret A., Wheatley, Ji Bin, Liu, John R., Eisenbrey	No
Cancer stem cells release interleukin-33 within large oncosomes to promote immunosuppressive differentiation of macrophage precursors	Immunity	https://doi.org/10.1016/j.immuni.2024.07.004	2024	Hannah L., Erickson, Sachiko, Taniguchi, Anish, Raman, Justin J., Leitenberger, Sanjay V., Malhotra, Naoki, Oshimori	No
SPP1 is required for maintaining mesenchymal cell fate in pancreatic cancer	Nature	https://doi.org/10.1038/s41586-025-09574-y	2025	Huafu, Li, Linxiang, Lan, Hengxing, Chen, May, Zaw Thin, Hari, Ps, Jessica K., Nelson, Ian M., Evans, E. Josue, Ruiz, Rongjie, Cheng, Li, Tran, Mark, Allen, Jian, Ma, Tingzhuang, Yi, Chunming, Wang, Yulong, He, Naomi, Guppy, Anguraj, Sadanandam, Shao Zhen, Lin, Changhua, Zhang, Axel, Behrens	No
Intraperitoneal CAR T-cell therapy for peritoneal carcinomatosis from gastroesophageal cancer: preclinical investigations to a phase I clinical trial (NCT06623396)	Journal for immunotherapy of cancer	https://doi.org/10.1136/jitc-2025-012292	2025	David, Restle, Alfredo, Amador-Molina, Kyohei, Misawa, Srijita, Banerjee, Geoffrey, Ku, Prasad S., Adusumilli	No
SMAD4 induces opposite effects on metastatic growth from pancreatic tumors depending on the organ of residence.	Nature cancer	http://www.ncbi.nlm.nih.gov/pubmed/40999053	2025	Kaloyan M, Tsanov, Francisco M, Barriga, Yu-Jui, Ho, Direna, Alonso-Curbelo, Geulah, Livshits, Sha, Tian, Richard P, Koche, Timour, Baslan, Janelle, Simon, Alexandra N, Wuest, José, Reyes, Jin, Park, Wei, Luan, John E, Wilkinson, Umesh, Bhanot, Jordana, Ray-Kirton, Ignas, Masilionis, Nevenka, Dimitrova, Christine A, Iacobuzio-Donahue, Ronan, Chaligné, Dana, Pe'er, Joan, Massagué, Scott W, Lowe	No
An injury-associated lobular microniche is associated with the classical tumor cell phenotype in pancreatic cancer	Nature Communications	https://www.nature.com/articles/s41467-025-63864-7	2025	Sara, Söderqvist, Annika, Viljamaa, Natalie, Geyer, Anna-Lena, Keller, Kseniya, Ruksha, Carina, Strell, Neda, Hekmati, Alexandra, Niculae, Jennie, Engstrand, Ernesto, Sparrelid, Caroline, Salmén, Tânia D. F., Costa, Miao, Zhao, Staffan, Strömblad, Argyro, Zacharouli, Poya, Ghorbani, Sara, Harrizi, Yousra, Hamidi, Olga, Khorosjutina, Stefina, Milanova, Bernhard, Schmierer, Béla, Bozóky, Carlos, Fernández Moro, Marco, Gerling	No
Carrier-free nanoparticles based on natural products trigger dual "synergy and attenuation" for enhanced phototherapy of liver cancer	Materials Today Bio	https://doi.org/10.1016/j.mtbio.2025.102278	2025	Xiongqin, Wang, Kunhui, Sun, Junlin, Dong, Yanli, Ge, Haifan, Liu, Xingyue, Jin, Xiao, Pei, Ping, Wang, Jianbing, Jiang, Tiejie, Wang, Xuelei, Hu, Shuguang, Yuan, Bing, Wang, Xie an, Yu	No
Multiscale molecular engineering co-modulated dual-mode ratiometric probe for monitoring tumor-associated macrophage repolarization	Biomaterials	https://linkinghub.elsevier.com/retrieve/pii/S0142961225006052	2026	Xinyue, Li, Ning, Li, Zhiang, Duan, Xuan, Zhang, Baodui, Wang	No
Cu2(OH)PO4@PAA Nanoparticles for Highly Effective Combination of Chemodynamic, Photodynamic and Photothermal Therapies Against Bladder Cancer	International Journal of Nanomedicine	https://doi.org/10.2147/IJN.S534840	2025	Yadong, Liu, Huiyan, Lv, Yaodong, Chen, Shazhou, Ye, Zhong, Zheng, Lei, Chen, Zejun, Yan, Xingyi, Li	No
Comparative analysis of ALA mediated sonodynamic therapy considering tumor size, light combination and ultrasound delivery in murine cutaneous melanoma	Scientific Reports	https://doi.org/10.1038/s41598-025-16366-x	2025	Erika Toneth Ponce, Ayala, Iago Silva e., Carvalho, Camila Aparecida, Antunes, Aisha, Mahmood, Michelle Barreto, Requena, Fernanda, Alves, Layla, Pires, Vladislav, Yakovlev, Vanderlei Salvador, Bagnato, Sebastião, Pratavieira	No
Calcitriol and Tacalcitol Modulate Th17 Differentiation Through Osteopontin Receptors: Age-Dependent Insights from a Mouse Breast Cancer Model	ImmunoTargets and Therapy	https://doi.org/10.2147/ITT.S537852	2025	Aleksandra, Strzykalska-Augustyniak, Mateusz, Psurski, Honorata, Zachary, Beata, Filip-Psurska, Dagmara, Kłopotowska, Magdalena, Milczarek, Marta, Świtalska, Martyna, Stachowicz-Suhs, Natalia, Łabędź, Aleksandra, Ziemblicka, Michalina, Gos, Joanna, Wietrzyk	No
Novel self-assembled metal-phenolic nanoplatforms for triple-negative breast cancer treatment: photothermal-chemotherapy/ferroptosis synergy inducing immunogenic cell death	RSC Advances	https://doi.org/10.1039/d5ra03962b	2025	Bohao, Peng, Ruoyao, Wang, Tian, Li, Xiaoqing, Yu, Zhiyu, Wang, Xiyang, Zhang, Yuanfeng, Tan, Long, Cheng, Lu, Yang	No
Cancer Cell Membrane-Wrapped Nanoparticles for Photothermal Therapy and Photoacoustic Imaging of Triple-Negative Breast Cancer	ACS Applied Nano Materials	https://pubs.acs.org/doi/10.1021/acsanm.5c03543	2025	Sara B., Aboeleneen, Grace M., Azevedo, Kejian, Li, Avery M., Wolverton, Mackenzie A., Scully, George C., Kramarenko, Emily S., Day	No
Epigenetic modulation with nanosatellite triggers tumoricidal immunity for hepatocellular carcinoma treatment	Nature Communications	https://www.nature.com/articles/s41467-025-61974-w	2025	Ying, Qu, Chen, Chen, Feifei, Sun, Shijia, Liu, Guozhi, Zhao, Zhongxi, Zhao, Chang, Liu, Xinyi, Jiang, Tao, Li	No
Xianglian Pill combined with 5-fluorouracil enhances antitumor activity and reduces gastrointestinal toxicity in gastric cancer by regulating the p38 MAPK/NF-κB signaling pathway	Journal of Ethnopharmacology	https://doi.org/10.1016/j.jep.2024.117988	2024	Lei, Yu, Jun yuan, Qin, Chen, Sun, Fu, Peng, Yan, Chen, Su juan, Wang, Jun, Tang, Zi Wei, Lin, Liu jun, Wu, Jing, Li, Xiao yu, Cao, Wen qing, Li, Xiao fang, Xie, Cheng, Peng	No
From breast cancer cell homing to the onset of early bone metastasis: The role of bone (re)modeling in early lesion formation	Sci. Adv	https://www.science.org	2024	Sarah A E, Young, Anna-Dorothea, Heller, Daniela S, Garske, Maximilian, Rummler, Victoria, Qian, Agnes, Ellinghaus, Georg N, Duda, Bettina M, Willie, Anika, Grüneboom, Amaia, Cipitria	No
L-DOS47 Elevates Pancreatic Cancer Tumor pH and Enhances Response to Immunotherapy	Biomedicines	https://doi.org/10.3390/biomedicines12020461	2024	Bruna Victorasso, Jardim-Perassi, Pietro, Irrera, Oluwaseyi E., Oluwatola, Dominique, Abrahams, Veronica C., Estrella, Bryce, Ordway, Samantha R., Byrne, Andrew A., Ojeda, Christopher J., Whelan, Jongphil, Kim, Matthew S., Beatty, Sultan, Damgaci-Erturk, Dario Livio, Longo, Kim J., Gaspar, Gabrielle M., Siegers, Barbara A., Centeno, Justin Y.C., Lau, Shari A., Pilon-Thomas, Arig, Ibrahim-Hashim, Robert J., Gillies	No
Maleimide–Thiol Linkages Alter the Biodistribution of SN38 Therapeutic Microbubbles Compared to Biotin–Avidin While Preserving Parity in Tumoral Drug Delivery	Pharmaceutics	https://doi.org/10.3390/pharmaceutics16030434	2024	Nicola, Ingram, Radwa H., Abou-Saleh, Amanda D., Race, Paul M., Loadman, Richard J., Bushby, Stephen D., Evans, P. Louise, Coletta	No
Nitric oxide nano-reactor DNMF/PLGA enables tumor vascular microenvironment and chemo-hyperthermia synergetic therapy	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-024-02366-y	2024	Ruoyao, Wang, Long, Cheng, Lingyun, He, Chier, Du, Haiyang, Wang, Bohao, Peng, Xiaoqing, Yu, Weiwei, Liu, Wenpei, Luo, Haitao, Ran, Lu, Yang	No
Ultrasound enhanced siRNA delivery using cationic liposome-microbubble complexes for the treatment of squamous cell carcinoma	Nanotheranostics	https://doi.org/10.7150/ntno.90516	2024	Bin, Qin, Xucai, Chen, Jianhui, Zhu, Jonathan, Kopechek, Brandon, Helfield, Francois, Yu, Jissy, Cyriac, Linda, Lavery, Jennifer R., Grandis, Flordeliza S., Villanueva	No
Super-Resolution Ultrasound Imaging for Monitoring the Therapeutic Efficacy of a Vascular Disrupting Agent in an Animal Model of Breast Cancer	Journal of Ultrasound in Medicine	https://doi.org/10.1002/jum.16438	2024	Kenneth, Hoyt	No
A Preliminary Investigation of Radiation-Sensitive Ultrasound Contrast Agents for Photon Dosimetry	Pharmaceuticals	https://doi.org/10.3390/ph17050629	2024	Bram, Carlier, Sophie V., Heymans, Sjoerd, Nooijens, Gonzalo, Collado-Lara, Yosra, Toumia, Laurence, Delombaerde, Gaio, Paradossi, Jan, D'hooge, Koen, Van Den Abeele, Edmond, Sterpin, Uwe, Himmelreich	No
Riboflavin-targeted polymers improve tolerance of paclitaxel while maintaining therapeutic efficacy	Nanomedicine: Nanotechnology, Biology, and Medicine	https://doi.org/10.1016/j.nano.2024.102751	2024	Milita, Darguzyte, Elena, Rama, Anne, Rix, Jasmin, Baier, Juliane, Hermann, Sima, Rezvantalab, Mohammad, Khedri, Joachim, Jankowski, Fabian, Kiessling	No
Novel strategies for enhanced fluorescence visualization of glioblastoma tumors based on HPMA copolymers conjugated with tumor targeting and/or cell-penetrating peptides	VIEW	https://doi.org/10.1002/VIW.20230116	2024	Eliška, Grosmanová, Robert, Pola, Marcela, Filipová, Maxime, Henry, Jean Luc, Coll, Tomáš, Etrych	No
Rhein-based Pickering emulsion for hepatocellular carcinoma: Shaping the metabolic signaling and immunoactivation in transarterial chemoembolization	Aggregate	https://doi.org/10.1002/agt2.552	2024	Xiaoliu, Liang, Hui, Liu, Hu, Chen, Xuqi, Peng, Zhenjie, Li, Minglei, Teng, Yisheng, Peng, Jiwei, Li, Linyu, Ding, Jingsong, Mao, Chengchao, Chu, Hongwei, Cheng, Gang, Liu	No

Title	Journal	Link	Publication date	References	Top Paper
Promising two-dimensional rhenium diselenide nanosheets: Facile Preparation, characterization, in vivo tumor photoacoustic imaging and photothermal therapy	Nano Today	https://doi.org/10.1016/j.nantod.2024.102274	2024	Yufeng, Yuan, Yiwan, Song, Jianchang, Hu, Sihan, Wu, Yiping, Wang, Xiaoying, Zhang, Jun, Song, Liwei, Liu, Feng, Rao, Shuwen, Zeng, Xiao, Peng, Junle, Qu	No
Tumor promoting effect of spheroids in an orthotopic prostate cancer mouse model	Scientific Reports	https://doi.org/10.1038/s41598-024-59052-0	2024	Julius Lars Daniel, Bastian, Philip, Zeuschner, Michael, Stöckle, Kerstin, Junker, Johannes, Linxweiler	No
Coiled-Coil Protein Hydrogels Engineered with Minimized Fiber Diameters for Sustained Release of Doxorubicin in Triple-Negative Breast Cancer	ACS Biomaterials Science and Engineering	https://doi.org/10.1021/acsbiomaterials.4c00349	2024	Dustin, Britton, Jakub, Legocki, Deven, Paul, Olga, Katsara, Orlando, Aristizabal, Neelam, Pandya, Orin, Mishkit, Yingxin, Xiao, Matias, Aristizabal, Neha, Rahman, Robert, Schneider, Youssef Z., Wadghiri, Jin Kim, Montclare	No
Ultrasound imaging guided targeted sonodynamic therapy enhanced by magnetophoretically controlled magnetic microbubbles	International Journal of Pharmaceutics	https://doi.org/10.1016/j.ijpharm.2024.124015	2024	Yao, Zhu, Gulzira, Arkin, Tianzhen, He, Fengjuan, Guo, Ling, Zhang, Yu, Wu, Paras N., Prasad, Zhongjian, Xie	No
A novel combined therapeutic strategy of Nano-EN-IR@Lip mediated photothermal therapy and stem cell inhibition for gastric cancer	Biomedicine and Pharmacotherapy	https://doi.org/10.1016/j.biopha.2024.116486	2024	Liping, Yang, Yan e., Du, Fangli, Liao, Tong, Huang, Yadong, Liu, Junzhao, Liu, Can, Wang, Zhu, Zhan, Yang, Cao, Zhigang, Wang, Weixian, Chen	No
Irradiation with Carbon Ions Effectively Counteracts Hypoxia-related Radioresistance in a Rat Prostate Carcinoma	International Journal of Radiation Oncology Biology Physics	https://doi.org/10.1016/j.ijrobp.2024.05.004	2024	Christin, Glowa, Alina L., Bendinger, Rosemarie, Euler-Lange, Peter, Peschke, Stephan, Brons, Jürgen, Debus, Christian P., Karger	No
Identification and characterization of TM4SF1+ tumor self-seeded cells	Cell Reports	https://doi.org/10.1016/j.celrep.2024.114512	2024	Haotian, Yang, Haolu, Wang, Yaowu, He, Yang, Yang, Erik W., Thompson, Di, Xia, Leslie J., Burke, Lu, Cao, John D., Hooper, Michael S., Roberts, Darrell H.G., Crawford, Xiaowen, Liang	No
Toward Smart Ultrasound Image Augmentation to Advance Tumor Treatment Monitoring: Exploring the Potential of Diffusion Generative Model	Journal of Medical Devices	https://doi.org/10.1115/1.4065905	2024	Emmanuel, Yangue, Ashish, Ranjan, Yu, Feng, Chenang, Liu	No
Mitochondrial DNA-boosted dendritic cell-based nanovaccination triggers antitumor immunity in lung and pancreatic cancers	Cell Reports Medicine	https://doi.org/10.1016/j.xcrm.2024.101648	2024	Lihuan, Shang, Xue, Jiang, Xinbao, Zhao, Xi, Huang, Xiaojuan, Wang, Xiangzhan, Kong, Mingkang, Yao, Shanping, Jiang, Ping Pui, Wong	No
Topographic modification of the extracellular matrix precedes the onset of bladder cancer	Matrix Biology Plus	https://doi.org/10.1016/j.mbplus.2024.100154	2024	Chiara, Venegoni, Filippo, Pederzoli, Irene, Locatelli, Elisa, Alchera, Laura, Martinez-Vidal, Alessia, Di Coste, Marco, Bandini, Andrea, Necchi, Francesco, Montorsi, Andrea, Salonia, Marco, Moschini, Jithin, Jose, Federico, Scarfò, Roberta, Lucianò, Massimo, Alfano	No
Mortalin promotes the evolution of androgen-independent prostate cancer through Wnt/β-catenin signaling pathway	Cancer Cell International	https://doi.org/10.1186/s12935-024-03345-x	2024	Ying, Chang, Jinyuan, Sui, Qiang, Fu, Zhongqi, Lu, Zhengri, Piao, Tiefeng, Jin, Meihua, Zhang	No
Nucleotide metabolism in cancer cells fuels a UDP-driven macrophage cross-talk, promoting immunosuppression and immunotherapy resistance	Nature Cancer	https://doi.org/10.1038/s43018-024-00771-8	2024	Tommaso, Scolaro, Marta, Manco, Mathieu, Pecqueux, Ricardo, Amorim, Rosa, Trotta, Heleen H., Van Acker, Matthias, Van Haele, Niranjan, Shirgaonkar, Stefan, Naulaerts, Jan, Daniluk, Fran, Prenen, Chiara, Varamo, Donatella, Ponti, Ginevra, Doglioni, Ana Margarida, Ferreira Campos, Juan, Fernandez Garcia, Silvia, Radenkovic, Pegah, Rouhi, Aleksandar, Beatovic, Liwei, Wang, Yu, Wang, Amalia, Tzoumpa, Asier, Antoranz, Ara, Sargsian, Mario, Di Matteo, Emanuele, Berardi, Jermaine, Goveia, Bart, Ghesquière, Tania, Roskams, Stefaan, Soenen, Thomas, Voets, Bella, Manshian, Sarah Maria, Fendt, Peter, Carmeliet, Abhishek D., Garg, Ramanuj, DasGupta, Baki, Topal, Massimiliano, Mazzone	No
Boosting the sonodynamic performance of CoBiMn-layered double hydroxide nanoparticles via tumor microenvironment regulation for ultrasound imaging-guided sonodynamic therapy	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-024-02591-5	2024	Shuqing, Yang, Tingting, Hu, Gareth R., Williams, Yu, Yang, Susu, Zhang, Jiayi, Shen, Minjiang, Chen, Ruizheng, Liang, Lingchun, Lyu	No
A P P L I E D S C I E N C E S A N D E N G I N E E R I N G Ultrasensitive and multiplexed tracking of single cells using whole-body PET/CT	Sci. Adv	https://www.science.org	2024	Hieu T M, Nguyen, Neeladrisingha, Das, Matthew, Ricks, Xiaoxu, Zhong, Eri, Takematsu, Yuting, Wang, Carlos, Ruvalcaba, Brahim, Mehadji, Emilie, Roncali, Charles K F, Chan, Guillem, Pratx	No
Synthesis and biological evaluation of panitumumab-IRDye800 conjugate as a fluorescence imaging probe for EGFR-expressing cancers	MedChemComm	https://doi.org/10.1039/c4md00116h	2014	Sibaprasad, Bhattacharyya, Nimit L., Patel, Ling, Wei, Lisa A., Riffle, Joseph D., Kalen, G. Craig, Hill, Paula M., Jacobs, Kurt R., Zinn, Eben, Rosenthal	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
Probiotics functionalized with a gallium-polyphenol network modulate the intratumor microbiota and promote anti-tumor immune responses in pancreatic cancer	Nature Communications	https://doi.org/10.1038/s41467-024-51534-z	2024	Zi Yi, Han, Zhuang Jiong, Fu, Yu Zhang, Wang, Cheng, Zhang, Qi Wen, Chen, Jia Xin, An, Xian Zheng, Zhang	No
PEDF-Enriched Extracellular Vesicle for Vessel Normalization to Potentiate Immune Checkpoint Blockade Therapy	Biomaterials Research	https://doi.org/10.34133/bmr.0068	2024	Sol, Shin, Chan Ho, Kim, Soyoung, Son, Jae Ah, Lee, Seunglee, Kwon, Dong Gil, You, Jungmi, Lee, Jeongyun, Kim, Dong Gyu, Jo, Hyewon, Ko, Jae Hyung, Park	No
In-Situ Grown Nanocrystal TiO2 on 2D Ti3C2 Nanosheets with Anti-Tumor Activity from Photo-Sonodynamic Treatment and Immunology	International Journal of Nanomedicine	https://doi.org/10.2147/IJN.S457112	2024	Hailing, Yu, Yongquan, Huang, Zhisheng, Nong, Xi, Lin, Kexin, Tang, Zeyu, Cai, Kaichen, Huang, Ting, Yu, Huimin, Lan, Qianqian, Zhang, Qiang, Wang, Lei, Yang, Jingchuan, Zhu, Lili, Wu, Hui, Luo	No
Pan-lysyl oxidase inhibition disrupts fibroinflammatory tumor stroma, rendering cholangiocarcinoma susceptible to chemotherapy	Hepatology Communications	https://doi.org/10.1097/HC9.0000000000000502	2024	Paul R., Burchard, Luis I., Ruffolo, Nicholas A., Ullman, Benjamin S., Dale, Yatee A., Dave, Bailey K., Hilty, Jian, Ye, Mary, Georger, Rachel, Jewell, Christine, Miller, Luis, De Las Casas, Wolfgang, Jarolimek, Lara, Perryman, Matthew M., Byrne, Anthony, Loria, Chelsea, Marin, Mariana Chávez, Villa, Jen Jen, Yeh, Brian A., Belt, David C., Linehan, Roberto, Hernandez-Alejandro	No
Rosiglitazone and trametinib exhibit potent anti-tumor activity in a mouse model of muscle invasive bladder cancer	Nature Communications	https://doi.org/10.1038/s41467-024-50678-2	2024	Sakina A., Plumber, Tiffany, Tate, Hikmat, Al-Ahmadie, Xiao, Chen, Woonyoung, Choi, Merve, Basar, Chao, Lu, Aaron, Viny, Ekatherina, Batourina, Jiaqi, Li, Kristjan, Gretarsson, Besmira, Alija, Andrei, Molotkov, Gregory, Wiessner, Byron Hing Lung, Lee, James, McKiernan, David J., McConkey, Colin, Dinney, Bogdan, Czerniak, Cathy Lee, Mendelsohn	No
19F MRI/CEUS Dual Imaging-Guided Sonodynamic Therapy Enhances Immune Checkpoint Blockade in Triple-Negative Breast Cancer	Advanced Science	https://doi.org/10.1002/advs.202401182	2024	Qiu, Chen, Hong, Xiao, Lijun, Hu, Yongquan, Huang, Zhong, Cao, Xintao, Shuai, Zhongzhen, Su	No
Bioluminescence and photoacoustic dual-modality imaging of apoptosis using a duramycin-immobilized gold nanorod probe	Cell Reports Physical Science	https://doi.org/10.1016/j.xcrp.2024.102177	2024	Jingyu, Zhang, Bin, Guo, Yiyi, Jiang, Xiaorui, Shi, Chong, Hu, Zihao, Jiao, Fu, Wang	No
Aminolysis-mediated single-step surface functionalization of poly (butyl cyanoacrylate) microbubbles for ultrasound molecular imaging	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-024-02806-9	2024	Junlin, Chen, Bi, Wang, Anshuman, Dasgupta, Céline, Porte, Lisa, Eckardt, Jinwei, Qi, Marek, Weiler, Twan, Lammers, Anne, Rix, Yang, Shi, Fabian, Kiessling	No
Biodistribution of PET radiotracers in tumor-bearing TRAMP mice administered by retroorbital or jugular vein injections	Scientific Reports	https://doi.org/10.1038/s41598-024-71221-9	2024	Catherine C., Applegate, Michael B., Nelappana, Yuxiao, Cui, Goodluck, Okoro, Elaine A., Nielsen, Nicolas P., Dovalovsky, Andrew M., Smith, Iwona T., Dobrucki, Lawrence W., Dobrucki	No
H E A L T H A N D M E D I C I N E Reversibly photoswitchable protein assemblies with collagen affinity for in vivo photoacoustic imaging of tumors	Sci. Adv	https://www.science.org	2024	Shuai, Chen, Kaixin, Li, Xin, Chen, Shan, Lei, Jing, Lin, Peng, Huang	No
The pronounced cytotoxic effects of chimeric antigen receptor T cells targeting B7-H3 in organoids and liver xenografts derived from colorectal cancer patients	British Journal of Cancer	https://www.nature.com/articles/s41416-025-03114-1	2025	Yuling, Sheng, Li, Yan, Qi, Liu, Yifan, Peng, Jingyun, Tan, Wenhua, Li, Wei, Mao, Wenqing, Wei, Yanyun, Chang, Linlin, Cao, Yi, Tan, Yanlin, Xiao, Wenyong, Zhang, Jing, Gao, Yang, Xu, Changzheng, Du	No
Semaphorin 3D promotes pancreatic ductal adenocarcinoma progression and metastasis through macrophage reprogramming	Science Advances		2024	Noelle R.J., Thielman, Vanessa, Funes, Sanjana, Davuluri, Hector E., Ibanez, Wei-Chih, Sun, Juan, Fu, Keyu, Li, Stephen, Muth, Xingyi, Pan, Kenji, Fujiwara, Dwayne L. II, Thomas, MacKenzie, Henderson, Selina Shiqing, Teh, Qingfeng, Zhu, Elizabeth, Thompson, Elizabeth M., Jaffee, Alex, Kolodkin, Fengxi, Meng, Lei, Zheng	No

Title	Journal	Link	Publication date	References	Top Paper
Molecular Engineering of a Tumor-Targeting Thione-Derived Diketopyrrolopyrrole Photosensitizer to Attain NIR Excitation Over 850 nm for Efficient Dual Phototherapy	Advanced Science	https://doi.org/10.1002/advs.202407727	2024	Gang, Xu, Yunxia, Song, Haifeng, Jin, Pengmin, Shi, Yubo, Jiao, Fangzhou, Cao, Jie, Pang, Yanyan, Sun, Lei, Fang, Xing Hua, Xia, Jian, Zhao	No
Intraoperative Guidance of Pancreatic Cancer Resection Using a Toll-like Receptor 2–Targeted Fluorescence Molecular Imaging Agent	Cancer Research Communications	https://doi.org/10.1158/2767-9764.CRC-24-0244	2024	Amanda S., Huynh, Allison S., Cohen, Michael, Doligalski, Todd J., Casagni, Valerie E., Moberg, Xuan, Huang, Jennifer, Morse, Dominique, Abrahams, Mark C., Lloyd, Barbara A., Centeno, Margaret K., Baldwin, Mark L., McLaughlin, Josef, Vagner, David L., Morse	No
Versatile Bi2MoO6/Prussian Blue-Au nanoplatform for oxygen-self-produced and GSH-depleted enhanced sonodynamic efficacy	Journal of Colloid and Interface Science	https://doi.org/10.1016/j.jcis.2024.10.107	2025	Shuangshuang, Yang, Yufan, Zhang, Ran, Chang, Shengwu, Wen, Yaru, Cheng, Qiqi, Yang, Jinze, Li, Jinlong, Yang, Haifeng, Dong, Xueji, Zhang	No
A P P L I E D S C I E N C E S A N D E N G I N E E R I N G Dormancy-inducing 3D engineered matrix uncovers mechanosensitive and drug-protective FHL2-p21 signaling axis	Sci. Adv	https://www.science.org	2024	Sadra, Bakhshandeh, Unai, Heras, Hubert M, Taïeb, Adithi R, Varadarajan, Susanna M, Lissek, Sarah M, Hücker, Xin, Lu, Daniela S, Garske, Sarah A, E Young, Andrea, Abaurrea, Maria M, Caffarel, Ana, Riestra, Paloma, Bragado, Jörg, Contzen, Manfred, Gossen, Stefan, Kirsch, Jens, Warfsmann, Kamran, Honarnejad, Christoph A, Klein, Amaia, Cipitria	No
A PSA SNP associates with cellular function and clinical outcome in men with prostate cancer	Nature Communications	https://doi.org/10.1038/s41467-024-52472-6	2024	Srilakshmi, Srinivasan, Thomas, Kryza, Nathalie, Bock, Brian W.C., Tse, Kamil A., Sokolowski, Panchadsaram, Janaththani, Achala, Fernando, Leire, Moya, Carson, Stephens, Ying, Dong, Joan, Röhl, Saeid, Alinezhad, Ian, Vela, Joanna L., Perry-Keene, Katie, Buzacott, Robert, Nica, Penny, Wilson, Mohnish, Suri, Lucy, Side, Gad, Rennert, Judith, Offman, Clare, Moynihan, Anita, Mitra, Christos, Mikropoulos, Alan, Millner, Lovise, Maehle, Jan, Lubinski, Geoffrey, Lindeman, Vincent, Khoo, Óskar Þór, Jóhannsson, Freddie C., Hamdy, Christopher, Foster, Alison, Falconer, Jorunn, Eyfjord, Gareth, Evans, Diana, Eccles, David, Dearnaley, Elena, Castro, Chris, Bangma, Audrey, Ardern-Jones, Elizabeth, Page, Elizabeth, Bancroft, Manuela, Gago-Dominguez, Jeremy, Clark, Colin, Cooper, Vincent J., Gnanapragasam, Christopher, Woodhouse, Alan, Thompson, Declan, Cahill, Chris, Ogden, David, Nicol, Naami, Mcaddy, Justyna, Sobczak, Netty, Kinsella, Jane, Melia, Sue, Moss, Lucia, D'Mello, Anne Marie Borges, Da Silva, Antony, Chamberlain, Sibel, Saya, Christos, Mikropolis, Alexander, Dias, Jeff, Bamber, Mathew, Perry, Frank, Chingewundoh, Paul, Cathcart, Nandita, de Souza, Aslam, Sohaib, Jack, Schalken, Paul, Pharoah, Sarah, Lewis, Steve, Hazell, Nick, van As, Paul, Ardern-Jones, Nening, Dennis, Angela, Wood, Syed, Hussain, Joe, Merson, Denzil, James, Diana, Keating, Eva, McGrowder, Matthew, Hogben, Kathryn, Myhill, Sarah, Thomas, Natalie, Taylor, Rose, Hall, Holly Ni, Raghallaigh, Jana, McHugh, Antonis, Antoniou, Pardeep, Kumar, Johanna, Schleutker, Christiane, Maier, Kenneth, Muir, Catherine M., Tangen, Henrik, Gronberg, Nora, Pashayan, Demetrius, Albanes, Alicja, Wolk, Janet L., Stanford, Sonja I., Berndt, Lorelei A., Mucci, Stella, Koutros, Olivier, Cussenot, Karina Dalsgaard, Sorensen, Eli Marie, Grindedal, Ruth C., Travis, Christopher A., Haiman, Robert J., MacInnis, Ana, Vega, Fredrik, Wiklund, David E., Neal, Manolis, Kogevinas, Kathryn L., Penney, Børge G., Nordestgaard, Hermann, Brenner, Esther M., John, Marija, Gamulin, Frank, Claessens, Olle, Melander, Anders, Dahlin, Pär, Stattin, Göran, Hallmans, Christel, Häggström, Robert, Johansson, Elin, Thysell, Ann Charlotte, Rönn, Weiqiang, Li, Nigel, Brown, Goce, Dimeski, Benjamin, Shepherd, Tokhir, Dadaev, Mark N., Brook, Amanda B., Spurdle, Ulf Håkan, Stenman, Hannu, Koistinen, Zsofia, Kote-Jarai, Robert J., Klein, Hans, Lilja, Rupert C., Ecker, Rosalind, Eeles, Markus, Aly, Maria Elena, Martinez, Steven, Joniau, Tomislav, Kulis, Thomas, Schnoeller, Josef, Hoegel, Ben, Schöttker, Bernd, Holleczek, Xin, Gao, Andreas, Røder, Hein V., Stroomberg, Stig E., Bojesen, Meir, Stampfer, Sara, Lindström, Antonio, Alcaraz, Gemma, Castaño-Vinyals, Trinidad, Dierssen-Sotos, Martin, Eklund, Laura, Fachal, Antonio, Gómez-Caamaño, Roger L., Milne, Melissa C., Southey, Xin, Sheng, Loic, Le Marchand, Tim J., Key, Michael, Borre, Laura E.Beane, Freeman, Edward, Giovannucci, Mitchell J., Machiela, Robert N., Hoover, Gerald L., Andriole, Niclas, Håkansson, Anssi, Auvinen, Teuvo L.J., Tammela, Alison M., Dunning, Tobias, Nordström, Ian M., Thompson, Phyllis J., Goodman, Artitaya, Lophatananon, William J., Blot, Peter, Kraft, Stephen N., Thibodeau, Hardev, Pandha, Lisa, Cannon-Albright, Kay Tee, Khaw, Florence, Menegaux, Ron H.N., van Shaik, Jose Esteban, Castelao, Paul A., Townsend, Nawaid, Usmani, Radka, Kaneva, Davor, Lessel, Lisa F., Newcomb, Azad, Razack, Kim, De Ruyck, Susan L., Neuhausen, Manuel R., Teixeira, Jeri, Kim, Sune F., Nielsen, Cezary, Cybulski, Jong Y., Park, Adam S., Kibel, Graham G., Giles, Yong Jie, Lu, Barry S., Rosenstein, Sue Ann, Ingles, Robert J., Hamilton, Jenny L., Donovan, Géraldine, Cancel-Tassin, Catharine M.L., West, Stephanie J., Weinstein, Ying, Wang, Stephen, Chanock, Ali Amin Al, Olama, Sara, Benlloch, Fredrick R., Schumacher, Melissa, Papargiris, Anne Maree, Haynes, Lisa, Butler, Renea, Taylor, Lisa, Horvath, Gail P., Risbridger, Wayne, Tilley, Judith, Clements, Jyotsna, Batra	No
2D manganese-doped calcium carbonate nanosheets as activable MRI/US imaging Guided enhanced calcium influx for Boosted regulatory cell death	Chemical Engineering Journal	https://doi.org/10.1016/j.cej.2024.158309	2025	Mingya, Tan, Linlin, Huo, Jie, Zeng, Shiqi, Zhu, Jianfeng, Bao, Mengke, Fan, Jiangyang, Li, Meiling, Liu, Jiayi, Zhao, Zhenghuan, Zhao	No
Ultrasound-responsive nanocarriers with siRNA and Fe3O4 regulate macrophage polarization and phagocytosis for augmented non-small cell lung cancer immunotherapy	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-024-02883-w	2024	Ming, Li, Yuanyuan, Li, Jun, Zheng, Zhen, Ma, Jianye, Zhang, Hao, Wu, Yangyang, Zhu, Pan, Li, Fang, Nie	No
Intermetallics triggering pyroptosis and disulfidptosis in cancer cells promote anti-tumor immunity	Nature Communications	https://doi.org/10.1038/s41467-024-53135-2	2024	Yanlin, Zhu, Xinxin, Wang, Lili, Feng, Ruoxi, Zhao, Can, Yu, Yuanli, Liu, Ying, Xie, Bin, Liu, Yang, Zhou, Piaoping, Yang	No
Identification of Contactin-1 as a Potential Biomarker and Therapeutic Target in Neuroblastoma	Biomedicines	https://doi.org/10.3390/biomedicines12112606	2024	Christa N., Grant, Carson A., Wills, Xiaoming, Liu, Longgui, Chen, Zhenqiu, Liu, Hong Gang, Wang	No
Oncogenic properties of wild-type DNA repair gene FANCA in breast cancer	Cell Reports	https://doi.org/10.1016/j.celrep.2025.115480	2025	Liang, Luo, Fenghua, Yuan, Anna, Palovcak, Fang, Li, Qingqi, Yuan, Daniel, Calkins, Zoe, Manalo, Yan, Li, Dazhi, Wang, Mike, Zhou, Catherine, Zhou, Matthew, Li, Yuan De, Tan, Feng, Bai, Yuguang, Ban, Christian, Mason, Evan, Roberts, Daniel, Bilbao, Zhao Jun, Liu, Karoline, Briegel, Scott M., Welford, Xin Hai, Pei, Sylvia, Daunert, Wenjun, Liu, Yanbin, Zhang	No
Aggregation induced emission luminogen bacteria hybrid bionic robot for multimodal phototheranostics and immunotherapy	Nature Communications	https://doi.org/10.1038/s41467-025-57533-y	2025	Liwei, Zhu, Guangjie, Song, Wentian, Zhang, Yifan, Wu, Yuling, Chen, Jiayi, Song, Deliang, Wang, Guoxin, Li, Ben Zhong, Tang, Ying, Li	No
IL-33-activated ILC2s induce tertiary lymphoid structures in pancreatic cancer	Nature	https://doi.org/10.1038/s41586-024-08426-5	2025	Masataka, Amisaki, Abderezak, Zebboudj, Hiroshi, Yano, Siqi Linsey, Zhang, George, Payne, Adrienne Kaya, Chandra, Rebecca, Yu, Pablo, Guasp, Zachary M., Sethna, Akihiro, Ohmoto, Luis A., Rojas, Charlotte, Cheng, Theresa, Waters, Alexander, Solovyov, Stephen, Martis, Ashley S., Doane, Charlotte, Reiche, Emmanuel M., Bruno, Martina, Milighetti, Kevin, Soares, Zagaa, Odgerel, John Alec, Moral, Julia N., Zhao, Mithat, Gönen, Rui, Gardner, Alexei V., Tumanov, Abdul G., Khan, Olivia, Vergnolle, Elisabeth K., Nyakatura, Ivo C., Lorenz, Manuel, Baca, Erin, Patterson, Benjamin, Greenbaum, David, Artis, Taha, Merghoub, Vinod P., Balachandran	No
Antisense mediated blockade of Dickkopf 1 attenuates tumor survival, metastases and bone damage in experimental osteosarcoma	Scientific Reports	https://doi.org/10.1038/s41598-024-84037-4	2025	Andrew, Haskell, Simin, Pan, Robert, Reese, Anthony, Powers, Megan G., Lopez, Sebastian, Lomeli, Christopher, Story, Joshua, Benton, J. Chris, Blazier, Roland, Kaunas, Carl A., Gregory	No

Title	Journal	Link	Publication date	References	Top Paper
Constructing Intramolecular Electric Fields in NIR-II-Emissive Photosensitizers to Regulate the Local Electron Density for Boosting Hypoxia-Tolerant Cancer Phototheranostics	CCS Chemistry	https://doi.org/10.31635/ccschem.024.202405072	2025	Xiaoming, Hu, Cheng, Zhang, Jingqi, Lv, Rongtian, Li, Achen, Qin, Caijun, Zhu, Fengwei, Sun, Zejing, Chen, Shenghan, Teng, Hongxin, Lin, Zhen, Yang, Wei, Huang	No
The GLP-1R agonist semaglutide reshapes pancreatic cancer associated fibroblasts reducing collagen proline hydroxylation and favoring T lymphocyte infiltration	Journal of Experimental and Clinical Cancer Research	https://doi.org/10.1186/s13046-024-03263-w	2025	Chiara, Cencioni, Silvia, Malatesta, Virginia, Vigiano Benedetti, Valerio, Licursi, Livia, Perfetto, Federica, Conte, Danilo, Ranieri, Armando, Bartolazzi, Martina, Kunkl, Loretta, Tuosto, Alberto, Larghi, Geny, Piro, Antonio, Agostini, Giampaolo, Tortora, Vincenzo, Corbo, Carmine, Carbone, Francesco, Spallotta	No
Ginsenoside RG3 Synergizes With STING Agonist to Reverse Cisplatin Resistance in Gastric Cancer	Food Science and Nutrition	https://doi.org/10.1002/fsn3.4744	2025	Zhongqi, Lu, Yihang, Fu, Qiang, Fu, Ying, Chang, Meihua, Zhang, Tiefeng, Jin	No
Hypoxia-tropic delivery of nanozymes targeting transferrin receptor 1 for nasopharyngeal carcinoma radiotherapy sensitization	Nature Communications	https://doi.org/10.1038/s41467-025-56134-z	2025	Ruofei, Zhang, Yanfang, Shen, Xiaoying, Zhou, Jianru, Li, Hanqing, Zhao, Zixia, Zhang, Jun, Zhao, Hongjun, Jin, Shuanshuan, Guo, Hui, Ding, Guohui, Nie, Zhe, Zhang, Ying, Wang, Xiyun, Yan, Kelong, Fan	No
Chemotherapy in synergy with innate immune agonists enhances T cell priming for checkpoint inhibitor treatment in pancreatic cancer	Biomarker Research	https://doi.org/10.1186/s40364-024-00721-7	2025	Nan, Niu, Keyu, Li, Junke, Wang, Vanessa, Funes, Birginia, Espinoza, Pan, Li, Jianxin, Wang, Melissa, Lyman, Mengni, He, Brian, Herbst, Michael, Wichroski, Ruslan, Novosiadly, Sami, Shoucair, Yiping, Mou, Lei, Zheng	No
Antibody-based delivery of interleukin-2 modulates the immunosuppressive tumor microenvironment and achieves cure in pancreatic ductal adenocarcinoma syngeneic mice	Journal of Experimental and Clinical Cancer Research	https://doi.org/10.1186/s13046-024-03238-x	2025	Carmine, Carbone, Roberto, De Luca, Emanuele, Puca, Antonio, Agostini, Alessia, Caggiano, Lorenzo, Priori, Annachiara, Esposito, Serena, Ascrizzi, Geny, Piro, Lisa, Salvatore, Francesco, De Sanctis, Stefano, Ugel, Vincenzo, Corbo, Dario, Neri, Giampaolo, Tortora	No
Fractionated low-dose radiotherapy primes the tumor microenvironment for immunotherapy in a murine mesothelioma model	Cancer Immunology, Immunotherapy	https://doi.org/10.1007/s00262-024-03889-x	2025	Rebecca A., D'Alonzo, Synat, Keam, Suki, Gill, Pejman, Rowshanfarzad, Anna K., Nowak, Martin A., Ebert, Alistair M., Cook	No
Integrating oxygen-boosted sonodynamic therapy and ferroptosis via engineered exosomes for effective cancer treatment	Theranostics	https://doi.org/10.7150/thno.102977	2025	Mingbo, Wu, Zhanlin, Zhang, Dong, Li, Xiaomiao, Ruan, Jingwen, Yang, Siyi, Chen, Xin, Li, Wenwu, Ling	No
Ultrasound irradiation in the presence of microbubbles may enhance the antitumor effect of chemotherapeutic agents against bladder cancer	Journal of Cancer	https://doi.org/10.7150/jca.100846	2025	Takehiro, Suzuki, Takuma, Sato, Ariunbuyan, Sukhbaatar, Maya, Sakamoto, Shiro, Mori, Tetsuya, Kodama, Akihiro, Ito	No
Correlation of Preclinical In Vivo Imaging Modalities and Immunohistochemistry for Tumor Hypoxia and Vasculature	In Vivo	https://doi.org/10.21873/invivo.13804	2025	Rebecca A., D'alonzo, Synat, Keam, Tracy S., Hoang, Suki, Gill, Pejman, Rowshanfarzad, Anna K., Nowak, Alistair M., Cook, Martin A., Ebert	No
Prolonged survival by combination treatment with a standardized herbal extract from Japanese Kampo-medicine (Juzentaihoto) and gemcitabine in an orthotopic transplantation pancreatic cancer model	Frontiers in Oncology	https://doi.org/10.3389/fonc.2024.1454291	2024	Joanna, Napp, Paulina, Siebel, Hans, Rausch, Kenny, Kuchta, Thomas, Efferth, Frauke, Alves, Volker, Ellenrieder, Silke, Cameron	No
Wearable photobiomodulation halts thyroid cancer growth by leveraging thyroid photosensitivity	Bioengineering and Translational Medicine	https://doi.org/10.1002/btm2.10734	2025	Changrui, Zhao, Kun, Fu, Jiameng, Tian, Tian, Long, Jianzhong, Song, Siyu, Chen, Chang, Liu	No
Limiting serine availability during tumor progression promotes muscle wasting in cancer cachexia	Cell Death Discovery	https://doi.org/10.1038/s41420-024-02271-1	2024	Erica, Pranzini, Livio, Muccillo, Ilaria, Nesi, Alice, Santi, Caterina, Mancini, Giulia, Lori, Massimo, Genovese, Tiziano, Lottini, Giuseppina, Comito, Anna, Caselli, Annarosa, Arcangeli, Lina, Sabatino, Vittorio, Colantuoni, Maria Letizia, Taddei, Paolo, Cirri, Paolo, Paoli	No
Ultrasound nanodroplets loaded with Siglec-G siRNA and Fe3O4 activate macrophages and enhance phagocytosis for immunotherapy of triple-negative breast cancer	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-024-03051-w	2024	Ci, Yin, Guojuan, Wang, Qin, Zhang, Zhendong, Li, Tiantian, Dong, Qi, Li, Nianhong, Wu, Yaqin, Hu, Haitao, Ran, Pan, Li, Yang, Cao, Fang, Nie	No
Protocol for generating brain metastatic tumor cells through repeated intracardiac injections in mice	STAR Protocols	https://doi.org/10.1016/j.xpro.2024.103531	2025	Li, Wang, Xiaoxia, Chen, Chengtao, Dong, Shengqi, Yin, Li, Liang, Aidong, Zhou	No
Ultrasound-guided interstitial photothermal therapy generates improved treatment responses in a 9464D model of neuroblastoma	Bioengineering and Translational Medicine	https://doi.org/10.1002/btm2.10749	2025	Grace E., Olsson, Rohan V., Patil, Samantha J., Chin, Katharine N., Rus, Elizabeth E., Sweeney, Karun V., Sharma, Rohan, Fernandes	No
Low-Intensity Focused Ultrasound-Responsive, Phase-Change Nanodroplets to Remodel Macrophage Polarization and Enhance PD-L1 Blockade Therapy	Small Structures	https://doi.org/10.1002/sstr.202400441	2025	Qin, Zhang, Ci, Yin, Junjie, Liu, Hua, Yang, Yanping, Zhang, Qiaoxi, Qin, Nianhong, Wu, Rui, Tang, Yuting, Cao, Min, Zheng, Hongye, He, Hongmei, Dong, Yang, Zhou, Jianli, Ren, Zhengju, Ren, Pan, Li	No
Morphology-dependent near-infrared photothermal activity of plasmonic TiN nanobars and nanospheres for anticancer, antibacterial therapy and deep in vivo photoacoustic imaging	Applied Surface Science Advances	https://doi.org/10.1016/j.apsadv.2025.100713	2025	Katerina, Polakova, Sourav, Rej, Sarka, Hradilova, Jan, Belza, Tomas, Malina, Katerina Barton, Tomankova, Renata, Vecerova, Petr, Matous, Petr, Paral, Ariana, Opletalova, Jana, Soukupova, Tomas, Pluhacek, Ludek, Sefc, Radek, Zboril, Stepan, Kment, Alberto, Naldoni	No
Pharmacological rescue of mutant p53 triggers spontaneous tumor regression via immune responses	Cell Reports Medicine	https://doi.org/10.1016/j.xcrm.2025.101976	2025	Jiabing, Li, Shuang, Zhang, Baohui, Wang, Yuting, Dai, Jiale, Wu, Dianjia, Liu, Ying, Liang, Shujun, Xiao, Zhengyuan, Wang, Jiaqi, Wu, Derun, Zheng, Xueqin, Chen, Fangfang, Shi, Kai, Tan, Xianting, Ding, Huaxin, Song, Sujiang, Zhang, Min, Lu	No