

Rickmer F Braren

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/497447/publications.pdf>

Version: 2024-02-01

114
papers

4,143
citations

136885

32
h-index

133188

59
g-index

128
all docs

128
docs citations

128
times ranked

6877
citing authors

#	ARTICLE	IF	CITATIONS
1	Secure, privacy-preserving and federated machine learning in medical imaging. <i>Nature Machine Intelligence</i> , 2020, 2, 305-311.	8.3	473
2	Combined inhibition of BET family proteins and histone deacetylases as a potential epigenetics-based therapy for pancreatic ductal adenocarcinoma. <i>Nature Medicine</i> , 2015, 21, 1163-1171.	15.2	349
3	Endothelial FAK is essential for vascular network stability, cell survival, and lamellipodial formation. <i>Journal of Cell Biology</i> , 2006, 172, 151-162.	2.3	214
4	CRISPR/Cas9 somatic multiplex-mutagenesis for high-throughput functional cancer genomics in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13982-13987.	3.3	172
5	End-to-end privacy preserving deep learning on multi-institutional medical imaging. <i>Nature Machine Intelligence</i> , 2021, 3, 473-484.	8.3	157
6	The family of toxin-related ecto-ADP-ribosyltransferases in humans and the mouse. <i>Protein Science</i> , 2009, 11, 1657-1670.	3.1	147
7	Multiplexed pancreatic genome engineering and cancer induction by transfection-based CRISPR/Cas9 delivery in mice. <i>Nature Communications</i> , 2016, 7, 10770.	5.8	145
8	Cell-autonomous requirement for $\alpha 21$ integrin in endothelial cell adhesion, migration and survival during angiogenesis in mice. <i>Development (Cambridge)</i> , 2008, 135, 2193-2202.	1.2	139
9	Federated deep learning for detecting COVID-19 lung abnormalities in CT: a privacy-preserving multinational validation study. <i>Npj Digital Medicine</i> , 2021, 4, 60.	5.7	134
10	Dual-layer spectral computed tomography: Virtual non-contrast in comparison to true non-contrast images. <i>European Journal of Radiology</i> , 2018, 104, 108-114.	1.2	83
11	Resectability After First-Line FOLFIRINOX in Initially Unresectable Locally Advanced Pancreatic Cancer: A Single-Center Experience. <i>Annals of Surgical Oncology</i> , 2015, 22, 1212-1220.	0.7	77
12	Opposing role of Notch1 and Notch2 in a KrasG12D-driven murine non-small cell lung cancer model. <i>Oncogene</i> , 2015, 34, 578-588.	2.6	67
13	<i>c-myc</i> in the hematopoietic lineage is crucial for its angiogenic function in the mouse embryo. <i>Development (Cambridge)</i> , 2008, 135, 2467-2477.	1.2	66
14	Assessment of quantification accuracy and image quality of a full-body dual-layer spectral CT system. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 204-217.	0.8	65
15	Two Novel Human Members of an Emerging Mammalian Gene Family Related to Mono-ADP-Ribosylating Bacterial Toxins. <i>Genomics</i> , 1997, 39, 370-376.	1.3	61
16	Co-clinical Assessment of Tumor Cellularity in Pancreatic Cancer. <i>Clinical Cancer Research</i> , 2017, 23, 1461-1470.	3.2	60
17	Intensive Care Risk Estimation in COVID-19 Pneumonia Based on Clinical and Imaging Parameters: Experiences from the Munich Cohort. <i>Journal of Clinical Medicine</i> , 2020, 9, 1514.	1.0	60
18	Targeting PI3K/mTOR Signaling Displays Potent Antitumor Efficacy against Nonfunctioning Pituitary Adenomas. <i>Clinical Cancer Research</i> , 2015, 21, 3204-3215.	3.2	59

#	ARTICLE	IF	CITATIONS
19	Proteomic Characterization of the Heart and Skeletal Muscle Reveals Widespread Arginine ADP-Ribosylation by the ARTC1 Ectoenzyme. <i>Cell Reports</i> , 2018, 24, 1916-1929.e5.	2.9	55
20	A machine learning model for the prediction of survival and tumor subtype in pancreatic ductal adenocarcinoma from preoperative diffusion-weighted imaging. <i>European Radiology Experimental</i> , 2019, 3, 41.	1.7	55
21	Accuracy of iodine quantification in dual-layer spectral CT: Influence of iterative reconstruction, patient habitus and tube parameters. <i>European Journal of Radiology</i> , 2018, 102, 83-88.	1.2	53
22	Medical imaging deep learning with differential privacy. <i>Scientific Reports</i> , 2021, 11, 13524.	1.6	52
23	A machine learning algorithm predicts molecular subtypes in pancreatic ductal adenocarcinoma with differential response to gemcitabine-based versus FOLFIRINOX chemotherapy. <i>PLoS ONE</i> , 2019, 14, e0218642.	1.1	48
24	Silica-Iron Oxide Magnetic Nanoparticles Modified for Gene Delivery: A Search for Optimum and Quantitative Criteria. <i>Pharmaceutical Research</i> , 2012, 29, 1344-1365.	1.7	47
25	Multimodal Molecular Imaging of Integrin $\alpha_5\beta_1$ for In Vivo Detection of Pancreatic Cancer. <i>Journal of Nuclear Medicine</i> , 2014, 55, 446-451.	2.8	43
26	Characterization of Magnetic Viral Complexes for Targeted Delivery in Oncology. <i>Theranostics</i> , 2015, 5, 667-685.	4.6	40
27	Joint Imaging Platform for Federated Clinical Data Analytics. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 1027-1038.	1.0	39
28	Synergistic antitumor effects of transarterial viroembolization for multifocal hepatocellular carcinoma in rats. <i>Hepatology</i> , 2008, 48, 1864-1873.	3.6	38
29	Different Capacity of Monocyte Subsets to Phagocytose Iron-Oxide Nanoparticles. <i>PLoS ONE</i> , 2011, 6, e25197.	1.1	38
30	Validation of preclinical multiparametric imaging for prediction of necrosis in hepatocellular carcinoma after embolization. <i>Journal of Hepatology</i> , 2011, 55, 1034-1040.	1.8	37
31	Structure, chromosomal localization, and expression of the gene for mouse ecto-mono(ADP-ribosyl)transferase ART5. <i>Gene</i> , 2001, 275, 267-277.	1.0	35
32	Image-Based Molecular Phenotyping of Pancreatic Ductal Adenocarcinoma. <i>Journal of Clinical Medicine</i> , 2020, 9, 724.	1.0	35
33	Imaging and targeted therapy of pancreatic ductal adenocarcinoma using the theranostic sodium iodide symporter (NIS) gene. <i>Oncotarget</i> , 2017, 8, 33393-33404.	0.8	33
34	MCL-1 gains occur with high frequency in lung adenocarcinoma and can be targeted therapeutically. <i>Nature Communications</i> , 2020, 11, 4527.	5.8	32
35	Deep Convolutional Neural Network-Assisted Feature Extraction for Diagnostic Discrimination and Feature Visualization in Pancreatic Ductal Adenocarcinoma (PDAC) versus Autoimmune Pancreatitis (AIP). <i>Journal of Clinical Medicine</i> , 2020, 9, 4013.	1.0	32
36	Implementing cell-free DNA of pancreatic cancer patient-derived organoids for personalized oncology. <i>JCI Insight</i> , 2020, 5, .	2.3	30

#	ARTICLE	IF	CITATIONS
37	Multiparametric human hepatocellular carcinoma characterization and therapy response evaluation by hyperpolarized ¹³ C MRSI. <i>NMR in Biomedicine</i> , 2016, 29, 952-960.	1.6	28
38	X-Ray Phase-Contrast CT of a Pancreatic Ductal Adenocarcinoma Mouse Model. <i>PLoS ONE</i> , 2013, 8, e58439.	1.1	28
39	Modeling Therapy Response and Spatial Tissue Distribution of Erlotinib in Pancreatic Cancer. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 1145-1152.	1.9	27
40	Apparent Diffusion Coefficient (ADC) predicts therapy response in pancreatic ductal adenocarcinoma. <i>Scientific Reports</i> , 2017, 7, 17038.	1.6	26
41	Adversarial interference and its mitigations in privacy-preserving collaborative machine learning. <i>Nature Machine Intelligence</i> , 2021, 3, 749-758.	8.3	26
42	Microvascular dysfunction in the course of metabolic syndrome induced by high-fat diet. <i>Cardiovascular Diabetology</i> , 2014, 13, 31.	2.7	25
43	Model Matters: Differences in Orthotopic Rat Hepatocellular Carcinoma Physiology Determine Therapy Response to Sorafenib. <i>Clinical Cancer Research</i> , 2015, 21, 4440-4450.	3.2	25
44	Magnetic resonance cholangiopancreatography at 3 Tesla: Image quality comparison between 3D compressed sensing and 2D single-shot acquisitions. <i>European Journal of Radiology</i> , 2019, 115, 53-58.	1.2	24
45	Molecular characterization and expression of the gene for mouse NAD ⁺ :arginine ecto-mono(ADP-ribosyl)transferase, Art1. <i>Biochemical Journal</i> , 1998, 336, 561-568.	1.7	23
46	Comparison of definite chemoradiation therapy with carboplatin/paclitaxel or cisplatin/5-fluoruracil in patients with squamous cell carcinoma of the esophagus. <i>Radiation Oncology</i> , 2018, 13, 139.	1.2	23
47	Oncogenic Akt-FOXO3 loop favors tumor-promoting modes and enhances oxidative damage-associated hepatocellular carcinogenesis. <i>BMC Cancer</i> , 2019, 19, 887.	1.1	22
48	A computed tomography vertebral segmentation dataset with anatomical variations and multi-vendor scanner data. <i>Scientific Data</i> , 2021, 8, 284.	2.4	22
49	Cardioprotective C-kit ⁺ Bone Marrow Cells Attenuate Apoptosis after Acute Myocardial Infarction in Mice - In-vivo Assessment with Fluorescence Molecular Imaging. <i>Theranostics</i> , 2013, 3, 903-913.	4.6	21
50	Identification of treatment-induced vulnerabilities in pancreatic cancer patients using functional model systems. <i>EMBO Molecular Medicine</i> , 2022, 14, e14876.	3.3	20
51	Progression after Immunotherapy for Fibrolamellar Carcinoma. <i>Visceral Medicine</i> , 2019, 35, 39-42.	0.5	19
52	Differential Diagnosis for Pancreatic Cysts in CT Scans Using Densely-Connected Convolutional Networks. , 2019, 2019, 2095-2098.		19
53	Membranous CD24 drives the epithelial phenotype of pancreatic cancer. <i>Oncotarget</i> , 2016, 7, 49156-49168.	0.8	19
54	Improved detection rates and treatment planning of head and neck cancer using dual-layer spectral CT. <i>European Radiology</i> , 2018, 28, 4925-4931.	2.3	18

#	ARTICLE	IF	CITATIONS
55	Dual layer computed tomography: Reduction of metal artefacts from posterior spinal fusion using virtual monoenergetic imaging. <i>European Journal of Radiology</i> , 2018, 105, 195-203.	1.2	18
56	Free-Breathing Quantitative Dynamic Contrast-Enhanced Magnetic Resonance Imaging in a Rat Liver Tumor Model Using Dynamic Radial T1 Mapping. <i>Investigative Radiology</i> , 2011, 46, 624-631.	3.5	17
57	Integrin-Targeted Hybrid Fluorescence Molecular Tomography/X-ray Computed Tomography for Imaging Tumor Progression and Early Response in Non-Small Cell Lung Cancer. <i>Neoplasia</i> , 2017, 19, 8-16.	2.3	17
58	Tumor Uptake of Anti-CD20 Fabs Depends on Tumor Perfusion. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1971-1977.	2.8	15
59	Targeting PI3K/mTOR signaling exerts potent antitumor activity in pheochromocytoma in vivo. <i>Endocrine-Related Cancer</i> , 2017, 24, 1-15.	1.6	14
60	Pancreatic cancer detection and characterization—state of the art cross-sectional imaging and imaging data analysis. <i>Translational Gastroenterology and Hepatology</i> , 2019, 4, 35-35.	1.5	14
61	Multimodality Multiparametric Imaging of Early Tumor Response to a Novel Antiangiogenic Therapy Based on Anticalins. <i>PLoS ONE</i> , 2014, 9, e94972.	1.1	13
62	Multiparametric Modelling of Survival in Pancreatic Ductal Adenocarcinoma Using Clinical, Histomorphological, Genetic and Image-Derived Parameters. <i>Journal of Clinical Medicine</i> , 2020, 9, 1250.	1.0	13
63	Use of the EST Database Resource to Identify and Clone Novel Mono(ADP-Ribosyl)Transferase Gene Family Members. <i>Advances in Experimental Medicine and Biology</i> , 1997, 419, 163-168.	0.8	12
64	Acceleration of chemical shift encoding-based water fat MRI for liver proton density fat fraction and T2* mapping using compressed sensing. <i>PLoS ONE</i> , 2019, 14, e0224988.	1.1	12
65	Proposed diagnostic volumetric bone mineral density thresholds for osteoporosis and osteopenia at the cervicothoracic spine in correlation to the lumbar spine. <i>European Radiology</i> , 2022, 32, 6207-6214.	2.3	12
66	SurvivalNet: Predicting patient survival from diffusion weighted magnetic resonance images using cascaded fully convolutional and 3D Convolutional Neural Networks. , 2017, , .		11
67	Hyperpolarized 13C pyruvate magnetic resonance spectroscopy for in vivo metabolic phenotyping of rat HCC. <i>Scientific Reports</i> , 2021, 11, 1191.	1.6	11
68	[18F]FDG PET/MRI enables early chemotherapy response prediction in pancreatic ductal adenocarcinoma. <i>EJNMMI Research</i> , 2021, 11, 70.	1.1	11
69	Automated detection of the contrast phase in MDCT by an artificial neural network improves the accuracy of opportunistic bone mineral density measurements. <i>European Radiology</i> , 2022, 32, 1465-1474.	2.3	11
70	Reference region-based pharmacokinetic modeling in quantitative dynamic contrast-enhanced MRI allows robust treatment monitoring in a rat liver tumor model despite cardiovascular changes. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 229-238.	1.9	10
71	Spectral Computed Tomography Angiography With a Gadolinium-based Contrast Agent. <i>Journal of Thoracic Imaging</i> , 2018, 33, 246-253.	0.8	10
72	Strongyloides stercoralis hyperinfection syndrome presenting as mechanical ileus after short-course oral steroids for chronic obstructive pulmonary disease (COPD) exacerbation. <i>Parasitology International</i> , 2020, 76, 102087.	0.6	10

#	ARTICLE	IF	CITATIONS
73	Prediction of Tumor Cellularity in Resectable PDAC from Preoperative Computed Tomography Imaging. <i>Cancers</i> , 2021, 13, 2069.	1.7	10
74	Outcomes of resections for pancreatic adenocarcinoma with suspected venous involvement: a single center experience. <i>BMC Surgery</i> , 2015, 15, 100.	0.6	9
75	Camera-based respiratory triggering improves the image quality of 3D magnetic resonance cholangiopancreatography. <i>European Journal of Radiology</i> , 2019, 120, 108675.	1.2	9
76	Neoadjuvant versus definitive chemoradiation in patients with squamous cell carcinoma of the esophagus. <i>Radiation Oncology</i> , 2019, 14, 66.	1.2	9
77	Efficient, high-performance semantic segmentation using multi-scale feature extraction. <i>PLoS ONE</i> , 2021, 16, e0255397.	1.1	9
78	Assessing Antiangiogenic Therapy Response by DCE-MRI: Development of a Physiology Driven Multi-Compartment Model Using Population Pharmacometrics. <i>PLoS ONE</i> , 2011, 6, e26366.	1.1	8
79	Borderline-resectable pancreatic adenocarcinoma: Contour irregularity of the venous confluence in pre-operative computed tomography predicts histopathological infiltration. <i>PLoS ONE</i> , 2019, 14, e0208717.	1.1	8
80	Combined DCE-MRI- and FDG-PET enable histopathological grading prediction in a rat model of hepatocellular carcinoma. <i>European Journal of Radiology</i> , 2020, 124, 108848.	1.2	7
81	AI reflections in 2020. <i>Nature Machine Intelligence</i> , 2021, 3, 2-8.	8.3	7
82	Bcl3 Couples Cancer Stem Cell Enrichment With Pancreatic Cancer Molecular Subtypes. <i>Gastroenterology</i> , 2021, 161, 318-332.e9.	0.6	7
83	MRI-Determined Psoas Muscle Fat Infiltration Correlates with Severity of Weight Loss during Cancer Cachexia. <i>Cancers</i> , 2021, 13, 4433.	1.7	7
84	Qualitative and Quantitative Comparison of Respiratory Triggered Reduced Field-of-View (FOV) Versus Full FOV Diffusion Weighted Imaging (DWI) in Pancreatic Pathologies. <i>Academic Radiology</i> , 2021, 28, S234-S243.	1.3	7
85	Angpt2/Tie2 autostimulatory loop controls tumorigenesis. <i>EMBO Molecular Medicine</i> , 2022, 14, e14364.	3.3	7
86	Gradient nonlinearity correction in liver DWI using motion-compensated diffusion encoding waveforms. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, , 1.	1.1	7
87	Impact of 18F-FDG-PET/CT on the identification of regional lymph node metastases and delineation of the primary tumor in esophageal squamous cell carcinoma patients. <i>Strahlentherapie Und Onkologie</i> , 2020, 196, 787-794.	1.0	6
88	High rate of complete histopathological response in hepatocellular carcinoma patients after combined transarterial chemoembolization and stereotactic body radiation therapy. <i>World Journal of Gastroenterology</i> , 2021, 27, 3630-3642.	1.4	6
89	Noise reduction in diffusion weighted MRI of the pancreas using an L1-regularized iterative SENSE reconstruction. <i>Magnetic Resonance Imaging</i> , 2022, 87, 1-6.	1.0	6
90	High-Resolution, High b-Value Computed Diffusion-Weighted Imaging Improves Detection of Pancreatic Ductal Adenocarcinoma. <i>Cancers</i> , 2022, 14, 470.	1.7	6

#	ARTICLE	IF	CITATIONS
91	Two Novel Human Members of an Emerging Mammalian Gene Family Related to Mono-ADP-Ribosylating Bacterial Toxins. <i>Genomics</i> , 1999, 55, 130.	1.3	5
92	Arterial Pseudoaneurysm within a Pancreatic Pseudocyst. <i>Case Reports in Gastroenterology</i> , 2018, 12, 513-518.	0.3	5
93	Prognostic factors in hepatocellular carcinoma patients undergoing transarterial chemoembolization and radioembolization: a retrospective study. <i>European Journal of Gastroenterology and Hepatology</i> , 2020, 32, 1036-1041.	0.8	5
94	Hyperpolarized ¹³ C Spectroscopy with Simple Slice-and-Frequency-Selective Excitation. <i>Biomedicines</i> , 2021, 9, 121.	1.4	5
95	Longitudinal Assessment of Health and Quality of Life of COVID-19 Patients Requiring Intensive Care—An Observational Study. <i>Journal of Clinical Medicine</i> , 2021, 10, 5469.	1.0	5
96	SARS-CoV-2 serology increases diagnostic accuracy in CT-suspected, PCR-negative COVID-19 patients during pandemic. <i>Respiratory Research</i> , 2021, 22, 119.	1.4	4
97	Transarterial Administration of Oncolytic Viruses for Locoregional Therapy of Orthotopic HCC in Rats. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	3
98	Correlation of in vivo imaging to morphomolecular pathology in translational research: challenge accepted. <i>EJNMMI Research</i> , 2021, 11, 83.	1.1	3
99	Privacy: An Axiomatic Approach. <i>Entropy</i> , 2022, 24, 714.	1.1	3
100	Next-generation metabolic imaging in pancreatic cancer. <i>Gut</i> , 2016, 65, 367-369.	6.1	2
101	Artificial Intelligence in Medicine and Privacy Preservation. , 2021, , 1-14.		1
102	Segmentation of Peripancreatic Arteries in Multispectral Computed Tomography Imaging. <i>Lecture Notes in Computer Science</i> , 2021, , 596-605.	1.0	1
103	Proof of concept of a multimodal intravital molecular imaging system for tumour transpathology investigation. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 1157-1165.	3.3	1
104	How heterogeneous is the liver? A cluster analysis of DCE-MRI time series. , 2011, , .		0
105	Magnetic particle spectroscopy characterization of the assemblies of magnetic nanoparticles. , 2015, , .		0
106	A Novel Predictive Organoid Culture System from Pancreatic Cancer Patients - Personalized Medicine in Realtime. <i>Gastroenterology</i> , 2017, 152, S18.	0.6	0
107	Autoimmune Pancreatitis Type 1 Associated with a Pancreatic Pseudocyst. <i>Case Reports in Gastroenterology</i> , 2019, 13, 195-199.	0.3	0
108	Hepatic activation of FOXO3 triggers positive feedback-loop for mTORC2-Akt and enhances oxidative damage-associated hepatocellular carcinogenesis. <i>Journal of Hepatology</i> , 2020, 73, S652.	1.8	0

#	ARTICLE	IF	CITATIONS
109	Abstract A234: Targeting Ras-dependent pathways in murine models of pancreatic cancer. , 2009, , .		0
110	Abstract C14: Optical imaging of integrin $\alpha 5 \beta 1$ detects pancreatic cancer in endogenous mouse models.. , 2011, , .		0
111	Abstract C8: Endogenous mouse models of pancreatic adenocarcinoma as a preclinical trial platform characterized by multiparametric magnetic resonance imaging. , 2011, , .		0
112	Abstract C267: Sequential combination of the novel allosteric MEK1/2 inhibitor BAY 86-9766 (RDEA119) with the mTOR inhibitor rapamycin decelerates relapse of pancreatic tumors.. , 2013, , .		0
113	Artificial Intelligence in Medicine and Privacy Preservation. , 2022, , 145-158.		0
114	Artificial Intelligence Will Improve Molecular Imaging, Therapy and Theranostics. Which Are the Biggest Advantages for Therapy?. , 2022, , 159-170.		0