Landscape of Infiltrating T Cells in Liver Cancer Revealed by Single-Cell Sequencing

#	Paper	IF	Citations
1272	Towards In Silico Prediction of the Immune-Checkpoint Blockade Response. **2017**, 38, 1041-1051		10
1271	Defining Renal Neoplastic Disease, One Cell at a Time: Mass Cytometry, a New Tool for the Study of Kidney Biology and Disease. **2017**, 70, 758-761		
1270	Single-cell transcriptomics to explore the immune system in health and disease. **2017**, 358, 58-63		275
1269	Relationship Between PD-L1 Expression and CD8+ T-cell Immune Responses in Hepatocellular Carcinoma. **2017**, 40, 323-333		48
1268	Learning the Roles of the Hepatic Adaptive Immune System in Hepatocellular Carcinoma-Nature's Guide for Successful Cancer Immunotherapy. **2017**, 37, 210-218		3
1267	Leveraging blood and tissue CD4+ T cell heterogeneity at the single cell level to identify mechanisms of disease in rheumatoid arthritis. **2017**, 49, 27-36		11
1266	CD4CD25 regulatory T-cells: a potential target for treating patients with chronic HBV infection. **2017**, 14, 800-801		3
1265	Gene expression profiling of hepatocarcinogenesis in a mouse model of chronic hepatitis B. **2017**, 12, e0185442		5
1264	Single-cell RNA-seq study determines the ontogeny of macrophages in glioblastomas. **2017**, 18, 235		7
1263	Immunogenic chemotherapy: Dose and schedule dependence and combination with immunotherapy. **2018**, 419, 210-221		132
1262	Genetic and Epigenetic Heterogeneity in Normal Liver Homeostasis and Its Implications for Liver Disease and Hepatocellular Cancer. **2018**, 38, 41-50		14
1261	Engineering chimeric antigen receptor-T cells for cancer treatment. **2018**, 17, 32		39
1260	Desmoplastic Tumor Microenvironment and Immunotherapy in Cholangiocarcinoma. **2018**, 4, 239-255		52
1259	Systems Immunology: Learning the Rules of the Immune System. **2018**, 36, 813-842		46
1258	Advancing systems immunology through data-driven statistical analysis. **2018**, 52, 109-115		4
1257	Molecular signatures in hepatocellular carcinoma: A step toward rationally designed cancer therapy. **2018**, 124, 3084-3104		35
1256	Targeting Wnt/Catenin Signaling for Cancer Immunotherapy. **2018**, 39, 648-658		111

1237   Non-obstructive intracellular nanolasers. **2018**, 9, 4817   44

1236   Global characterization of T cells in non-small-cell lung cancer by single-cell sequencing. **2018**, 24, 978-985   529

1235   Association Between Expression Level of PD1 by Tumor-Infiltrating CD8 T Cells and Features of Hepatocellular Carcinoma. **2018**, 155, 1936-1950.e17   141

1234   Analysis of Single-Cell RNA-Seq Identifies Cell-Cell Communication Associated with Tumor Characteristics. **2018**, 25, 1458-1468.e4   165

1233   A Computational Approach Identifies Immunogenic Features of Prognosis in Human Cancers. **2018**, 9, 3017   5

1232   Cancer research in the era of immunogenomics. **2018**, 3, e000475   8

1231   Transcriptome profiling of human oocytes experiencing recurrent total fertilization failure. **2018**, 8, 17890   9

1230   A novel spontaneous hepatocellular carcinoma mouse model for studying T-cell exhaustion in the tumor microenvironment. **2018**, 6, 144   16

1229   Lineage tracking reveals dynamic relationships of T cells in colorectal cancer. **2018**, 564, 268-272   352

1228   Understanding tumor ecosystems by single-cell sequencing: promises and limitations. **2018**, 19, 211   95

1227   Using single cell analysis for translational studies in immune mediated diseases: Opportunities and challenges. **2018**, 103, 191-199   5

1226   Single-Cell Transcriptomics in Cancer Immunobiology: The Future of Precision Oncology. **2018**, 9, 2582   33

1225   Single-Cell Transcriptomics. **2018**, 1-22

1224   Predictive biomarkers for tumor immune checkpoint blockade. **2018**, 10, 4501-4507   16

1223   Single cell profiling reveals window for immunotherapy in liver cancers. **2018**, 7, 48-51   2

1222   Identification and validation of a tumor-infiltrating Treg transcriptional signature conserved across species and tumor types. **2018**, 115, E10672-E10681   72

1221   T Cells That Help B Cells in Chronically Inflamed Tissues. **2018**, 9, 1924   70

1220   Precision oncology in liver cancer. **2018**, 6, 285   13

1219	Quantitative Analyses of the Tumor Microenvironment Composition and Orientation in the Era of Precision Medicine. **2018**, 8, 390		31
1218	p21-activated kinase 4 as a switch between caspase-8 apoptosis and NF-B survival signals in response to TNF-in hepatocarcinoma cells. **2018**, 503, 3003-3010		4
1217	The Paradoxical Role of NKG2D in Cancer Immunity. **2018**, 9, 1808		30
1216	Single-cell RNA sequencing for the study of development, physiology and disease. **2018**, 14, 479-492		172
1215	Pembrolizumab in patients with advanced hepatocellular carcinoma previously treated with sorafenib (KEYNOTE-224): a non-randomised, open-label phase 2 trial. **2018**, 19, 940-952		1120
1214	Bystander CD8 T cells are abundant and phenotypically distinct in human tumour infiltrates. **2018**, 557, 575-579		536
1213	High Throughput Single Cell RNA Sequencing, Bioinformatics Analysis and Applications. **2018**, 1068, 33-43		25
1212	Recent Developments in Single-Cell RNA-Seq of Microorganisms. **2018**, 115, 173-180		21
1211	Single-Cell Map of Diverse Immune Phenotypes in the Breast Tumor Microenvironment. *Cell*, **2018**, 174, 1293-1308.e36	56.2	754
1210	Single Cell Biomedicine. **2018**,		0
1209	Single Cell T Cell Receptor Sequencing: Techniques and Future Challenges. **2018**, 9, 1638		80
1208	Regulatory T Cells in Ovarian Cancer Are Characterized by a Highly Activated Phenotype Distinct from that in Melanoma. **2018**, 24, 5685-5696		46
1207	Emerging Functions of Regulatory T Cells in Tissue Homeostasis. **2018**, 9, 883		130
1206	Single Cell RNA Sequencing of Rare Immune Cell Populations. **2018**, 9, 1553		61
1205	The Peripheral and Intratumoral Immune Cell Landscape in Cancer Patients: A Proxy for Tumor Biology and a Tool for Outcome Prediction. **2018**, 6,		16
1204	Identification and functional analysis of heterogeneous FOXP3+ Treg cell subpopulations in human pancreatic ductal adenocarcinoma. **2018**, 63, 972-981		8
1203	Big Data Approaches for Modeling Response and Resistance to Cancer Drugs. **2018**, 1, 1-27		15
1202	High-dimensional single cell analysis identifies stem-like cytotoxic CD8 T cells infiltrating human tumors. **2018**, 215, 2520-2535		157

1201	Histone Variant H2A.Z Is Required for the Maintenance of Smooth Muscle Cell Identity as Revealed by Single-Cell Transcriptomics. **2018**, 138, 2274-2288	19
1200	Mass cytometry of Hodgkin lymphoma reveals a CD4 regulatory T-cell-rich and exhausted T-effector microenvironment. **2018**, 132, 825-836	85
1199	A transcriptionally and functionally distinct PD-1 CD8 T cell pool with predictive potential in non-small-cell lung cancer treated with PD-1 blockade. **2018**, 24, 994-1004	440
1198	Molecular pathway activation - New type of biomarkers for tumor morphology and personalized selection of target drugs. **2018**, 53, 110-124	50
1197	Multidimensional analyses reveal distinct immune microenvironment in hepatitis B virus-related hepatocellular carcinoma. **2019**, 68, 916-927	117
1196	Presence of tertiary lymphoid structures determines the level of tumor-infiltrating lymphocytes in primary breast cancer and metastasis. **2019**, 32, 70-80	35
1195	Extensive exploration of T cell heterogeneity in cancers by single cell sequencing. **2019**, 31, 410-418	2
1194	Identification of drug-specific public TCR driving severe cutaneous adverse reactions. **2019**, 10, 3569	53
1193	Multimodal single-cell approaches shed light on T cell heterogeneity. **2019**, 61, 17-25	6
1192	The biology and functional importance of MAIT cells. **2019**, 20, 1110-1128	173
1191	PIRD: Pan Immune Repertoire Database. **2020**, 36, 897-903	12
1190	LTMG: a novel statistical modeling of transcriptional expression states in single-cell RNA-Seq data. **2019**, 47, e111	23
1189	The Spatial and Genomic Hierarchy of Tumor Ecosystems Revealed by Single-Cell Technologies. **2019**, 5, 411-425	22
1188	Systematic Immunotherapy Target Discovery Using Genome-Scale In Vivo CRISPR Screens in CD8 T Cells. *Cell*, **2019**, 178, 1189-1204.e23	56.2	104
1187	Single-cell profiling guided combinatorial immunotherapy for fast-evolving CDK4/6 inhibitor-resistant HER2-positive breast cancer. **2019**, 10, 3817	37
1186	Immune landscape of hepatocellular carcinoma microenvironment: Implications for prognosis and therapeutic applications. **2019**, 39, 1608-1621	41
1185	Single-cell RNA sequencing of lung adenocarcinoma reveals heterogeneity of immune response-related genes. **2019**, 4,	37
1184	Comprehensive evaluation of transcriptome-based cell-type quantification methods for immuno-oncology. **2019**, 35, i436-i445	209

1165	Microbiome Big-Data Mining and Applications Using Single-Cell Technologies and Metagenomics Approaches Toward Precision Medicine. **2019**, 10, 972	17
1164	Overview of Immune Checkpoint Inhibitors Therapy for Hepatocellular Carcinoma, and The ITA.LI.CA Cohort Derived Estimate of Amenability Rate to Immune Checkpoint Inhibitors in Clinical Practice. **2019**, 11,	25
1163	Landscape and Dynamics of Single Immune Cells in Hepatocellular Carcinoma. *Cell*, **2019**, 179, 829-845.e20	36.2	364
1162	Single-cell analysis to understand the diversity of immune cell types that drive disease pathogenesis. **2019**, 144, 1150-1153	5
1161	Understanding tumor-infiltrating lymphocytes by single cell RNA sequencing. **2019**, 144, 217-245	11
1160	An immunoevasive strategy through clinically-relevant pan-cancer genomic and transcriptomic alterations of JAK-STAT signaling components. **2019**, 25, 46	9
1159	Single-cell transcriptomics reveals expansion of cytotoxic CD4 T cells in supercentenarians. **2019**, 116, 24242-24251	90
1158	Studying immune to non-immune cell cross-talk using single-cell technologies. **2019**, 18, 87-94	3
1157	CD8T cells from patients with cirrhosis display a phenotype that may contribute to cirrhosis-associated immune dysfunction. **2019**, 49, 258-268	20
1156	Transcriptomic Analysis of mRNA-lncRNA-miRNA Interactions in Hepatocellular Carcinoma. **2019**, 9, 16096	27
1155	A novel signature derived from immunoregulatory and hypoxia genes predicts prognosis in liver and five other cancers. **2019**, 17, 14	32
1154	HBV-Induced Immune Imbalance in the Development of HCC. **2019**, 10, 2048	71
1153	A next-generation tumor-targeting IL-2 preferentially promotes tumor-infiltrating CD8 T-cell response and effective tumor control. **2019**, 10, 3874	71
1152	Aging promotes reorganization of the CD4 T cell landscape toward extreme regulatory and effector phenotypes. **2019**, 5, eaaw8330	57
1151	Striking a Balance-Cellular and Molecular Drivers of Memory T Cell Development and Responses to Chronic Stimulation. **2019**, 10, 1595	12
1150	Single-Cell Analysis of Crohn's Disease Lesions Identifies a Pathogenic Cellular Module Associated with Resistance to Anti-TNF Therapy. *Cell*, **2019**, 178, 1493-1508.e20	56.2	219
1149	Next-generation computational tools for interrogating cancer immunity. **2019**, 20, 724-746	72
1148	Phenotypic characterisation of regulatory T cells in dogs reveals signature transcripts conserved in humans and mice. **2019**, 9, 13478	10

1147 The Transcription Factor Bhlhe40 Programs Mitochondrial Regulation of Resident CD8 T Cell Fitness and Functionality. **2019**, 51, 491-507.e7 — 70

1146 Aberrations in Notch-Hedgehog signalling reveal cancer stem cells harbouring conserved oncogenic properties associated with hypoxia and immunoevasion. **2019**, 121, 666-678 — 20

1145 Tumor Cell Biodiversity Drives Microenvironmental Reprogramming in Liver Cancer. **2019**, 36, 418-430.e6 — 190

1144 Latest Advances in Targeting the Tumor Microenvironment for Tumor Suppression. **2019**, 20, — 30

1143 Success of immune checkpoint blockade therapies - mechanisms and implications for hepatology. **2019**, 57, 74-86 — 1

1142 Regulatory T Cells and Their Clinical Applications in Antitumor Immunotherapy. **2019**, 5, 132-139 — 3

1141 Expression of costimulatory and inhibitory receptors in FoxP3 regulatory T cells within the tumor microenvironment: Implications for combination immunotherapy approaches. **2019**, 144, 193-261 — 9

1140 SSCC: A Novel Computational Framework for Rapid and Accurate Clustering Large-scale Single Cell RNA-seq Data. **2019**, 17, 201-210 — 19

1139 The pan-cancer mutational landscape of the PPAR pathway reveals universal patterns of dysregulated metabolism and interactions with tumor immunity and hypoxia. **2019**, 1448, 65-82 — 26

1138 Neutrophils in innate immunity and systems biology-level approaches. **2020**, 12, e1458 — 16

1137 Integrated multiomic analysis reveals comprehensive tumour heterogeneity and novel immunophenotypic classification in hepatocellular carcinomas. **2019**, 68, 2019-2031 — 115

1136 CHETAH: a selective, hierarchical cell type identification method for single-cell RNA sequencing. **2019**, 47, e95 — 78

1135 Heterogeneity and fate choice: T cell exhaustion in cancer and chronic infections. **2019**, 58, 98-103 — 51

1134 MAIT cells: programmed in the thymus to mediate immunity within tissues. **2019**, 58, 75-82 — 13

1133 Nivolumab in patients with advanced hepatocellular carcinoma and Child-Pugh class B cirrhosis: Safety and clinical outcomes in a retrospective case series. **2019**, 125, 3234-3241 — 50

1132 Tissue-infiltrating lymphocytes signature predicts survival in patients with early/intermediate stage hepatocellular carcinoma. **2019**, 17, 106 — 17

1131 Application of single-cell RNA sequencing methodologies in understanding haematopoiesis and immunology. **2019**, 63, 217-225 — 11

1130 Regulatory T cells as therapeutic targets and mediators. **2019**, 38, 183-203 — 7

1129	Decomposing Cell Identity for Transfer Learning across Cellular Measurements, Platforms, Tissues, and Species. **2019**, 8, 395-411.e8	69
1128	GEPIA2: an enhanced web server for large-scale expression profiling and interactive analysis. **2019**, 47, W556-W560	993
1127	Improved measurement of absolute mRNA quantity without reverse transcription. **2019**, 579, 1-8	
1126	Single-cell RNA sequencing unveils the shared and the distinct cytotoxic hallmarks of human TCRV☐ and TCRV☐ ☐T lymphocytes. **2019**, 116, 11906-11915	68
1125	Cancer and Microenvironment Plasticity: Double-Edged Swords in Metastasis. **2019**, 40, 419-429	26
1124	Quantitative Mechanistic Modeling in Support of Pharmacological Therapeutics Development in Immuno-Oncology. **2019**, 10, 924	22
1123	Chronic Liver Disease in Humans Causes Expansion and Differentiation of Liver Lymphatic Endothelial Cells. **2019**, 10, 1036	19
1122	Single-Cell RNA-Sequencing Identifies Activation of TP53 and STAT1 Pathways in Human T Lymphocyte Subpopulations in Response to Ex Vivo Radiation Exposure. **2019**, 20,	8
1121	Immune contexture defined by single cell technology for prognosis prediction and immunotherapy guidance in cancer. **2019**, 39, 21	25
1120	Proteomics promises a new era of precision cancer medicine. **2019**, 4, 13	3
1119	Single-cell transcriptomic landscape of nucleated cells in umbilical cord blood. **2019**, 8,	12
1118	Select sequencing of clonally expanded CD8 T cells reveals limits to clonal expansion. **2019**, 116, 8995-9001	33
1117	The Impact of Heterogeneity on Single-Cell Sequencing. **2019**, 10, 8	43
1116	Biomarkers: What Role Do They Play (If Any) for Diagnosis, Prognosis and Tumor Response Prediction for Hepatocellular Carcinoma?. **2019**, 64, 918-927	18
1115	Genomic and transcriptional heterogeneity of multifocal hepatocellular carcinoma. **2019**, 30, 990-997	35
1114	Treg programming and therapeutic reprogramming in cancer. **2019**, 157, 198-209	21
1113	Identification of a neoantigen epitope in a melanoma patient with good response to anti-PD-1 antibody therapy. **2019**, 208, 52-59	8
1112	A Transcriptionally Distinct CXCL13CD103CD8 T-cell Population Is Associated with B-cell Recruitment and Neoantigen Load in Human Cancer. **2019**, 7, 784-796	53

1111   Single Molecule and Single Cell Sequencing. **2019**,   2

1110   RATIONALE 301 study: tislelizumab versus sorafenib as first-line treatment for unresectable hepatocellular carcinoma. **2019**, 15, 1811-1822   48

1109   An Informative Approach to Single-Cell Sequencing Analysis. **2019**, 1129, 81-96   3

1108   Adjuvant Treatment of Hepatocellular Carcinoma: Prospect of Immunotherapy. **2019**, 70, 1437-1442   59

1107   Revolutionizing immunology with single-cell RNA sequencing. **2019**, 16, 242-249   59

1106   TCR Repertoire Analysis Reveals Mobilization of Novel CD8 T Cell Clones Into the Cancer-Immunity Cycle Following Anti-CD4 Antibody Administration. **2018**, 9, 3185   18

1105   Activated and Exhausted MAIT Cells Foster Disease Progression and Indicate Poor Outcome in Hepatocellular Carcinoma. **2019**, 25, 3304-3316   57

1104   Landscape of infiltrating B cells and their clinical significance in human hepatocellular carcinoma. **2019**, 8, e1571388   46

1103   LAYN Is a Prognostic Biomarker and Correlated With Immune Infiltrates in Gastric and Colon Cancers. **2019**, 10, 6   158

1102   Proteomics identifies new therapeutic targets of early-stage hepatocellular carcinoma. **2019**, 567, 257-261   314

1101   Emerging Role of the Pathologist in Precision Medicine for HCC. **2019**, 64, 928-933   3

1100   Lineage Tracing in Humans Enabled by Mitochondrial Mutations and Single-Cell Genomics. *Cell*, **2019**, 176, 1325-1339.e22   56.2   174

1099   Casting a wider net: Immunosurveillance by nonclassical MHC molecules. **2019**, 15, e1007567   26

1098   Pseudotime Reconstruction Using TSCAN. **2019**, 1935, 115-124   3

1097   The application of single-cell sequencing technology in the diagnosis and treatment of hepatocellular carcinoma. **2019**, 7, 790   6

1096   Systematic comparative analysis of single-nucleotide variant detection methods from single-cell RNA sequencing data. **2019**, 20, 242   44

1095   Preface: More than two decades of modern tumor immunology. **2019**, 629, xxi-xl   1

1094   Single-cell analysis of CD8 T lymphocyte diversity during adaptive immunity. **2020**, 12, e1475   2

1093	Putative biomarkers for predicting tumor sample purity based on gene expression data. **2019**, 20, 1021	7
1092	Single-cell RNA sequencing reveals compartmental remodeling of tumor-infiltrating immune cells induced by anti-CD47 targeting in pancreatic cancer. **2019**, 12, 124	44
1091	Siglecs, Novel Immunotherapy Targets, Potentially Enhance The Effectiveness of Existing Immune Checkpoint Inhibitors in Glioma Immunotherapy. **2019**, 12, 10263-10273	11
1090	PD1 CD8 T cells correlate with exhausted signature and poor clinical outcome in hepatocellular carcinoma. **2019**, 7, 331	87
1089	Liver-Mediated Adaptive Immune Tolerance. **2019**, 10, 2525	52
1088	IL-33 Signaling Alters Regulatory T Cell Diversity in Support of Tumor Development. **2019**, 29, 2998-3008.e8	24
1087	Single-Cell Profiling Defines Transcriptomic Signatures Specific to Tumor-Reactive versus Virus-Responsive CD4 T Cells. **2019**, 29, 3019-3032.e6	25
1086	CDSeq: A novel complete deconvolution method for dissecting heterogeneous samples using gene expression data. **2019**, 15, e1007510	18
1085	Biomarker for personalized immunotherapy. **2019**, 8, S308-S317	5
1084	scReClassify: post hoc cell type classification of single-cell rNA-seq data. **2019**, 20, 913	9
1083	A universal information theoretic approach to the identification of stopwords. **2019**, 1, 606-612	11
1082	Immunologic Features of Patients With Advanced Hepatocellular Carcinoma Before and During Sorafenib or Anti-programmed Death-1/Programmed Death-L1 Treatment. **2019**, 10, e00058	21
1081	A Bayesian framework for high-throughput T cell receptor pairing. **2019**, 35, 1318-1325	1
1080	Blueberry Malvidin-3-galactoside Suppresses Hepatocellular Carcinoma by Regulating Apoptosis, Proliferation, and Metastasis Pathways In Vivo and In Vitro. **2019**, 67, 625-636	41
1079	Dysfunctional CD8 T Cells Form a Proliferative, Dynamically Regulated Compartment within Human Melanoma. *Cell*, **2019**, 176, 775-789.e18	56.2	368
1078	Ushering in Integrated T Cell Repertoire Profiling in Cancer. **2019**, 5, 85-94	14
1077	Deciphering Human Tumor Biology by Single-Cell Expression Profiling. **2019**, 3, 151-166	22
1076	Genomic and transcriptional Profiling of tumor infiltrated CD8 T cells revealed functional heterogeneity of antitumor immunity in hepatocellular carcinoma. **2019**, 8, e1538436	11

13

| 1057 | Microarray Assay Reveals Ciliary Abnormalities of the Allergic Nasal Mucosa. **2020**, 34, 50-58 | 3 |

| 1056 | The immunobiology of hepatocellular carcinoma in humans and mice: Basic concepts and therapeutic implications. **2020**, 72, 167-182 | 64 |

| 1055 | VirtualCytometry: a webserver for evaluating immune cell differentiation using single-cell RNA sequencing data. **2020**, 36, 546-551 | 6 |

| 1054 | Induction and Regulation of Mucosal Memory T Cell Responses. **2020**, 133-142 | |

| 1053 | When food regimes become hegemonic: Agrarian India through a Gramscian lens. **2020**, 20, 188-206 | 4 |

| 1052 | Reliability of a single-region sample to evaluate tumor immune microenvironment in hepatocellular carcinoma. **2020**, 72, 489-497 | 18 |

| 1051 | Pediatric embryonal brain tumors in the molecular era. **2020**, 20, 293-303 | 1 |

| 1050 | The significance of exosomes in the development and treatment of hepatocellular carcinoma. **2020**, 19, 1 | 168 |

| 1049 | Chimeric antigen receptor T cells in solid tumors: a war against the tumor microenvironment. **2020**, 63, 180-205 | 22 |

| 1048 | Distinct epigenetic features of tumor-reactive CD8+ T cells in colorectal cancer patients revealed by genome-wide DNA methylation analysis. **2019**, 21, 2 | 32 |

| 1047 | Exhaustion and senescence: two crucial dysfunctional states of T cells in the tumor microenvironment. **2020**, 17, 27-35 | 69 |

| 1046 | Immune cells within the tumor microenvironment: Biological functions and roles in cancer immunotherapy. **2020**, 470, 126-133 | 236 |

| 1045 | Tumor Functional Heterogeneity Unraveled by scRNA-seq Technologies. **2020**, 6, 13-19 | 54 |

| 1044 | Harnessing big 'omics' data and AI for drug discovery in hepatocellular carcinoma. **2020**, 17, 238-251 | 43 |

| 1043 | Immune Landscape of Viral- and Carcinogen-Driven Head and Neck Cancer. **2020**, 52, 183-199.e9 | 152 |

| 1042 | Using single-cell technologies to map the human immune system - implications for nephrology. **2020**, 16, 112-128 | 23 |

| 1041 | MAIT Cells Promote Tumor Initiation, Growth, and Metastases via Tumor MR1. **2020**, 10, 124-141 | 50 |

| 1040 | Toward a Better Understanding of Hepatocellular Carcinoma Immune Infiltrates. **2020**, 9, 341-342 | 2 |

1039	Prostate cancer research: The next generation; report from the 2019 Coffey-Holden Prostate Cancer Academy Meeting. **2020**, 80, 113-132	11
1038	Tumour evolution in hepatocellular carcinoma. **2020**, 17, 139-152	215
1037	Traditional Chinese medicine as supportive care for the management of liver cancer: Past, present, and future. **2020**, 7, 370-379	31
1036	Dissecting the human immune system with single cell RNA sequencing technology. **2020**, 107, 613-623	8
1035	Simultaneous fluorescent detection of multiplexed miRNA of liver cancer based on DNA tetrahedron nanotags. **2020**, 210, 120677	14
1034	CaSpER identifies and visualizes CNV events by integrative analysis of single-cell or bulk RNA-sequencing data. **2020**, 11, 89	28
1033	Regulatory T cell control of systemic immunity and immunotherapy response in liver metastasis. **2020**, 5,	48
1032	Combinational Immunotherapy for Hepatocellular Carcinoma: Radiotherapy, Immune Checkpoint Blockade and Beyond. **2020**, 11, 568759	31
1031	Transcriptomic characterization and innovative molecular classification of clear cell renal cell carcinoma in the Chinese population. **2020**, 20, 461	5
1030	The outstanding antitumor capacity of CD4 T helper lymphocytes. **2020**, 1874, 188439	11
1029	Expression Profile Analysis of m6A RNA Methylation Regulators Indicates They Are Immune Signature Associated and Can Predict Survival in Kidney Renal Cell Carcinoma. **2020**,	15
1028	Tumor Fibroblast-Derived FGF2 Regulates Expression of SPRY1 in Esophageal Tumor-Infiltrating T Cells and Plays a Role in T-cell Exhaustion. **2020**, 80, 5583-5596	7
1027	Impact of data preprocessing on cell-type clustering based on single-cell RNA-seq data. **2020**, 21, 440	3
1026	Analysis of the molecular nature associated with microsatellite status in colon cancer identifies clinical implications for immunotherapy. **2020**, 8,	20
1025	Dendritic Cell and T Cell Crosstalk in Liver Fibrogenesis and Hepatocarcinogenesis: Implications for Prevention and Therapy of Liver Cancer. **2020**, 21,	18
1024	Correlation Patterns Among B7 Family Ligands and Tryptophan Degrading Enzymes in Hepatocellular Carcinoma. **2020**, 10, 1632	4
1023	Association of inflammatory biomarkers with clinical outcomes in nivolumab-treated patients with advanced hepatocellular carcinoma. **2020**, 73, 1460-1469	90
1022	Distribution-Free Multisample Tests Based on Optimal Matchings With Applications to Single Cell Genomics. **2020**, 1-12	2

| 1021 | Knockdown of THOC1 reduces the proliferation of hepatocellular carcinoma and increases the sensitivity to cisplatin. **2020**, 39, 135 | 5 |

| 1020 | Analysis of single-cell RNAseq identifies transitional states of T cells associated with hepatocellular carcinoma. **2020**, 10, e133 | 7 |

| 1019 | Qualitative Analysis of Tumor-Infiltrating Lymphocytes across Human Tumor Types Reveals a Higher Proportion of Bystander CD8 T Cells in Non-Melanoma Cancers Compared to Melanoma. **2020**, 12, | 6 |

| 1018 | Off-the-Shelf Allogeneic T Cell Therapies for Cancer: Opportunities and Challenges Using Naturally Occurring "Universal" Donor T Cells. **2020**, 11, 583716 | 13 |

| 1017 | Regorafenib combined with PD1 blockade increases CD8 T-cell infiltration by inducing CXCL10 expression in hepatocellular carcinoma. **2020**, 8, | 25 |

| 1016 | Liver Immune Profiling Reveals Pathogenesis and Therapeutics for Biliary Atresia. *Cell*, **2020**, 183, 1867-1883.e26 | 56 |

| 1015 | Applications of Single-Cell Omics to Dissect Tumor Microenvironment. **2020**, 11, 548719 | 11 |

| 1014 | Tumor-infiltrating TNFRSF9 CD8 T cells define different subsets of clear cell renal cell carcinoma with prognosis and immunotherapeutic response. **2020**, 9, 1838141 | 8 |

| 1013 | Hepatocellular carcinoma: old friends and new tricks. **2020**, 52, 1898-1907 | 50 |

| 1012 | RNA sequencing: new technologies and applications in cancer research. **2020**, 13, 166 | 50 |

| 1011 | Immune suppressive landscape in the human esophageal squamous cell carcinoma microenvironment. **2020**, 11, 6268 | 58 |

| 1010 | Current perspectives on the tumor microenvironment in hepatocellular carcinoma. **2020**, 14, 947-957 | 12 |

| 1009 | Comprehensive analysis of tumour mutation burden and the immune microenvironment in hepatocellular carcinoma. **2020**, 89, 107135 | 6 |

| 1008 | A Five-Gene Signature Based on Stromal/Immune Scores in the Tumor Microenvironment and Its Clinical Implications for Liver Cancer. **2020**, 39, 1621-1638 | 17 |

| 1007 | Biological and Medical Importance of Cellular Heterogeneity Deciphered by Single-Cell RNA Sequencing. **2020**, 9, | 10 |

| 1006 | High-dimensional single-cell analysis delineates radiofrequency ablation induced immune microenvironmental remodeling in pancreatic cancer. **2020**, 11, 589 | 11 |

| 1005 | Exploiting the Complexities of Glioblastoma Stem Cells: Insights for Cancer Initiation and Therapeutic Targeting. **2020**, 21, | 7 |

| 1004 | Leveraging Public Single-Cell and Bulk Transcriptomic Datasets to Delineate MAIT Cell Roles and Phenotypic Characteristics in Human Malignancies. **2020**, 11, 1691 | 14 |

| 985 | Seven immune-related genes prognostic power and correlation with tumor-infiltrating immune cells in hepatocellular carcinoma. **2020**, 9, 7440-7452 | 12 |

| 984 | Single-cell transcriptomics in cancer: computational challenges and opportunities. **2020**, 52, 1452-1465 | 34 |

| 983 | A dynamic CD2-rich compartment at the outer edge of the immunological synapse boosts and integrates signals. **2020**, 21, 1232-1243 | 23 |

| 982 | Single-cell sequencing techniques from individual to multiomics analyses. **2020**, 52, 1419-1427 | 46 |

| 981 | Translational Considerations to Improve Response and Overcome Therapy Resistance in Immunotherapy for Hepatocellular Carcinoma. **2020**, 12, | 3 |

| 980 | TIGIT Can Exert Immunosuppressive Effects on CD8+ T Cells by the CD155/TIGIT Signaling Pathway for Hepatocellular Carcinoma In Vitro. **2020**, 43, 236-243 | 14 |

| 979 | Single-cell RNA sequencing of t(8;21) acute myeloid leukemia for risk prediction. **2020**, 43, 1278-1288 | 2 |

| 978 | Single-cell RNA sequencing of immune cells in gastric cancer patients. **2020**, 12, 2747-2763 | 9 |

| 977 | Discovery and Validation of a Metastasis-Related Prognostic and Diagnostic Biomarker for Melanoma Based on Single Cell and Gene Expression Datasets. **2020**, 10, 585980 | 6 |

| 976 | Identification of Driver Genes Regulating the T-Cell-Infiltrating Levels in Hepatocellular Carcinoma. **2020**, 11, 560546 | 2 |

| 975 | Comprehensive Integration of Single-Cell Transcriptional Profiling Reveals the Heterogeneities of Non-cardiomyocytes in Healthy and Ischemic Hearts. **2020**, 7, 615161 | 3 |

| 974 | Global immune characterization of HBV/HCV-related hepatocellular carcinoma identifies macrophage and T-cell subsets associated with disease progression. **2020**, 6, 90 | 17 |

| 973 | Single-Cell Analysis of Different Stages of Oral Cancer Carcinogenesis in a Mouse Model. **2020**, 21, | 3 |

| 972 | The identification and functional analysis of CD8+PD-1+CD161+ T cells in hepatocellular carcinoma. **2020**, 4, 28 | 8 |

| 971 | Single-Cell RNA-Seq Analysis Reveals Microenvironmental Infiltration of Plasma Cells and Hepatocytic Prognostic Markers in HCC With Cirrhosis. **2020**, 10, 596318 | 23 |

| 970 | Functional and Clinical Characterization of Tumor-Infiltrating T Cell Subpopulations in Hepatocellular Carcinoma. **2020**, 11, 586415 | 2 |

| 969 | Single-Cell Techniques and Deep Learning in Predicting Drug Response. **2020**, 41, 1050-1065 | 6 |

| 968 | Trajectory and Functional Analysis of PD-1 CD4CD8 T Cells in Hepatocellular Carcinoma by Single-Cell Cytometry and Transcriptome Sequencing. **2020**, 7, 2000224 | 20 |

967	Heterogeneity of exhausted T cells in the tumor microenvironment is linked to patient survival following resection in hepatocellular carcinoma. **2020**, 9, 1746573		12
966	Single-Cell RNA Sequencing to Dissect the Immunological Network of Autoimmune Myocarditis. **2020**, 142, 384-400		26
965	ZBED2 is an antagonist of interferon regulatory factor 1 and modifies cell identity in pancreatic cancer. **2020**, 117, 11471-11482		13
964	Single-cell technologies in hepatology: new insights into liver biology and disease pathogenesis. **2020**, 17, 457-472		44
963	Use of Single-Cell -Omic Technologies to Study the Gastrointestinal Tract and Diseases, From Single Cell Identities to Patient Features. **2020**, 159, 453-466.e1		9
962	Early precursors and molecular determinants of tissue-resident memory CD8 T lymphocytes revealed by single-cell RNA sequencing. **2020**, 5,		50
961	Turning Cold into Hot: Firing up the Tumor Microenvironment. **2020**, 6, 605-618		220
960	The hypoxic tumour microenvironment: A safe haven for immunosuppressive cells and a therapeutic barrier to overcome. **2020**, 487, 34-44		16
959	Accounting for cell type hierarchy in evaluating single cell RNA-seq clustering. **2020**, 21, 123		5
958	Single-Cell Analysis Reveals Fibroblast Clusters Linked to Immunotherapy Resistance in Cancer. **2020**, 10, 1330-1351		140
957	The Tumor Microenvironment in the Response to Immune Checkpoint Blockade Therapies. **2020**, 11, 784		98
956	Reconstruction of cell spatial organization from single-cell RNA sequencing data based on ligand-receptor mediated self-assembly. **2020**, 30, 763-778		33
955	Identification of Cell-types based on the Pathway of Markers using Single-cell data. **2020**,		
954	Construction of a 13-microRNA-based signature and prognostic nomogram for predicting overall survival in patients with hepatocellular carcinoma. **2020**, 50, 1151-1163		5
953	Intratumoral CD4 T Cells Mediate Anti-tumor Cytotoxicity in Human Bladder Cancer. *Cell*, **2020**, 181, 1612-1625.e13	56.2	168
952	Downexpression of HSD17B6 correlates with clinical prognosis and tumor immune infiltrates in hepatocellular carcinoma. **2020**, 20, 210		8
951	A pan-cancer blueprint of the heterogeneous tumor microenvironment revealed by single-cell profiling. **2020**, 30, 745-762		108
950	Single-cell transcriptomic architecture and intercellular crosstalk of human intrahepatic cholangiocarcinoma. **2020**, 73, 1118-1130		75

949	Advances in single-cell epigenomics of the immune system. **2020**, 185-216	0
948	Single-cell genomics and spatial transcriptomics: Discovery of novel cell states and cellular interactions in liver physiology and disease biology. **2020**, 73, 1219-1230	45
947	CD29 identifies IFN-producing human CD8 T cells with an increased cytotoxic potential. **2020**, 117, 6686-6696	25
946	The liver as an immunological barrier redefined by single-cell analysis. **2020**, 160, 157-170	16
945	Impaired Anti-Tumor T cell Response in Hepatocellular Carcinoma. **2020**, 12,	13
944	Immune-based therapies for hepatocellular carcinoma. **2020**, 39, 3620-3637	68
943	Single-Cell Transcriptomic Analysis. **2020**, 10, 767-783	3
942	Preface: More than two decades of modern tumor immunology. **2020**, 635, xix-xxxviii	
941	Single-Cell Approaches to Profile the Response to Immune Checkpoint Inhibitors. **2020**, 11, 490	21
940	Preface: More than two decades of modern tumor immunology. **2020**, 636, xvii-xxxvi	
939	NCOA5 deficiency promotes a unique liver protumorigenic microenvironment through p21 overexpression, which is reversed by metformin. **2020**, 39, 3821-3836	4
938	Identification and validation of an immunogenic subtype of gastric cancer with abundant intratumoural CD103CD8 T cells conferring favourable prognosis. **2020**, 122, 1525-1534	15
937	Recirculation and Residency of T Cells and Tregs: Lessons Learnt in Anacapri. **2020**, 11, 682	2
936	Molecular subtypes of oropharyngeal cancer show distinct immune microenvironment related with immune checkpoint blockade response. **2020**, 122, 1649-1660	8
935	Aortic heterogeneity across segments and under high fat/salt/glucose conditions at the single-cell level. **2020**, 7, 881-896	10
934	Single-cell transcriptome analysis reveals TOX as a promoting factor for T cell exhaustion and a predictor for anti-PD-1 responses in human cancer. **2020**, 12, 22	55
933	Dynamics of peripheral T cell clones during PD-1 blockade in non-small cell lung cancer. **2020**, 69, 2599-2611	11
932	Decreased cytotoxic T cells and TCR clonality in organ transplant recipients with squamous cell carcinoma. **2020**, 4, 13	8

913	Peripheral CD8 T cell characteristics associated with durable responses to immune checkpoint blockade in patients with metastatic melanoma. **2020**, 26, 193-199	94
912	Integrative network modeling reveals mechanisms underlying T cell exhaustion. **2020**, 10, 1915	9
911	MAIT Cells Come to the Rescue in Cancer Immunotherapy?. **2020**, 12,	12
910	scCATCH: Automatic Annotation on Cell Types of Clusters from Single-Cell RNA Sequencing Data. **2020**, 23, 100882	55
909	The Diagnostic, Prognostic, and Therapeutic Potential of Adaptive Immune Receptor Repertoire Profiling in Cancer. **2020**, 80, 643-654	11
908	Single-Cell Genomic Characterization Reveals the Cellular Reprogramming of the Gastric Tumor Microenvironment. **2020**, 26, 2640-2653	66
907	Single-cell RNA-seq unveils critical regulators of human FOXP3+ regulatory T cell stability. **2020**, 65, 1114-1124	5
906	Preface: More than two decades of modern tumor immunology. **2020**, 631, xxiii-xlii	1
905	Intratumoral heterogeneity and clonal evolution in liver cancer. **2020**, 11, 291	102
904	Anti-tumor immune response varies among individuals: A gene expression profiling of mouse melanoma. **2020**, 80, 106211	1
903	Role of heterogeneous regulatory T cells in the tumor microenvironment. **2020**, 153, 104659	11
902	MAIT Cells in Health and Disease. **2020**, 38, 203-228	62
901	Codelivery of Anti-PD-1 Antibody and Paclitaxel with Matrix Metalloproteinase and pH Dual-Sensitive Micelles for Enhanced Tumor Chemoimmunotherapy. **2020**, 16, e1906832	43
900	Statistical Modelling and Machine Learning Principles for Bioinformatics Techniques, Tools, and Applications. **2020**,	2
899	Choice of library size normalization and statistical methods for differential gene expression analysis in balanced two-group comparisons for RNA-seq studies. **2020**, 21, 75	17
898	A Single-Cell Perspective of the Mammalian Liver in Health and Disease. **2020**, 71, 1467-1473	11
897	Progress and applications of single-cell sequencing techniques. **2020**, 80, 104198	14
896	Liquid Biopsy Based Single-Cell Transcriptome Profiling Characterizes Heterogeneity of Disseminated Tumor Cells from Lung Adenocarcinoma. **2020**, 20, e1900224	6

895   Human Anti-tumor Immunity: Insights from Immunotherapy Clinical Trials. **2020**, 52, 36-54   65

894   Top 10 Challenges in Cancer Immunotherapy. **2020**, 52, 17-35   460

893   Preface: More than two decades of modern tumor immunology. **2020**, 632, xxiii-xlii

892   Exploring the controversial role of PI3K signalling in CD4 regulatory T (T-Reg) cells. **2020**, 76, 100722   2

891   Single-cell RNA sequencing reveals the heterogeneity of liver-resident immune cells in human. **2020**, 6, 22   65

890   Classical and Deep Learning Paradigms for Detection and Validation of Key Genes of Risky Outcomes of HCV. **2020**, 13, 73   1

889   Applications of single-cell sequencing for the field of otolaryngology: A contemporary review. **2020**, 5, 404-431   3

888   Downregulation of ubiquitin-specific protease 2 possesses prognostic and diagnostic value and promotes the clear cell renal cell carcinoma progression. **2020**, 8, 319   9

887   Unravelling the heterogeneity and dynamic relationships of tumor-infiltrating T cells by single-cell RNA sequencing analysis. **2020**, 107, 917-932   11

886   Advancing Cancer Research and Medicine with Single-Cell Genomics. **2020**, 37, 456-470   73

885   CD4 teff cell heterogeneity: the perspective from single-cell transcriptomics. **2020**, 63, 61-67   7

884   Modulation of regulatory T cell function and stability by co-inhibitory receptors. **2020**, 20, 680-693   47

883   Eomes identifies thymic precursors of self-specific memory-phenotype CD8 T cells. **2020**, 21, 567-577   27

882   Tumour grade significantly correlates with total dysfunction of tumour tissue-infiltrating lymphocytes in renal cell carcinoma. **2020**, 10, 6220   11

881   Sarcomas-A barren immunological wasteland or field of opportunity for immunotherapy?. **2020**, 18, 447-470   3

880   Identification of mutation associated-immunotype and prediction of survival in patients with hepatocellular carcinoma. **2020**, 8, 321   5

879   Changing Technologies of RNA Sequencing and Their Applications in Clinical Oncology. **2020**, 10, 447   35

878   Single-Cell Analyses Inform Mechanisms of Myeloid-Targeted Therapies in Colon Cancer. *Cell*, **2020**, 181, 442-459.e29   56.2   226

877	Dissecting the Tumor-Immune Landscape in Chimeric Antigen Receptor T-cell Therapy: Key Challenges and Opportunities for a Systems Immunology Approach. **2020**, 26, 3505-3513	9
876	Deciphering the transcriptomic landscape of tumor-infiltrating CD8 lymphocytes in B16 melanoma tumors with single-cell RNA-Seq. **2020**, 9, 1737369	13
875	High-dimensional immune-profiling in cancer: implications for immunotherapy. **2020**, 8,	32
874	Marrow-Infiltrating Regulatory T Cells Correlate with the Presence of Dysfunctional CD4PD-1 Cells and Inferior Survival in Patients with Newly Diagnosed Multiple Myeloma. **2020**, 26, 3443-3454	12
873	Tumor-infiltrating immune cells in hepatocellular carcinoma: Tregs is correlated with poor overall survival. **2020**, 15, e0231003	15
872	Dimension Reduction and Clustering Models for Single-Cell RNA Sequencing Data: A Comparative Study. **2020**, 21,	18
871	PD-1 blockade-unresponsive human tumor-infiltrating CD8 T cells are marked by loss of CD28 expression and rescued by IL-15. **2021**, 18, 385-397	10
870	Immune microenvironment of hepatocellular carcinoma, intrahepatic cholangiocarcinoma and liver metastasis of colorectal adenocarcinoma: Relationship with histopathological and molecular classifications. **2021**, 51, 5-18	16
869	Dissecting transcriptional heterogeneity in primary gastric adenocarcinoma by single cell RNA sequencing. **2021**, 70, 464-475	46
868	Liver Cancer Immunity. **2021**, 73 Suppl 1, 86-103	22
867	Non-coding RNA derived from extracellular vesicles in cancer immune escape: Biological functions and potential clinical applications. **2021**, 501, 234-246	6
866	Clinicopathological analysis of neoplastic PD-L1-positive EBV diffuse large B cell lymphoma, not otherwise specified, in a Japanese cohort. **2021**, 478, 541-552	9
865	Improving the Efficacy of Liver Cancer Immunotherapy: The Power of Combined Preclinical and Clinical Studies. **2021**, 73 Suppl 1, 104-114	18
864	Thymus involution sets the clock of the aging T-cell landscape: Implications for declined immunity and tissue repair. **2021**, 65, 101231	6
863	Compartmentalized evolution of hepatitis B virus contributes differently to the prognosis of hepatocellular carcinoma. **2021**, 42, 461-470	3
862	Understanding tumour cell heterogeneity and its implication for immunotherapy in liver cancer using single-cell analysis. **2021**, 74, 700-715	12
861	Immunometabolism of regulatory T cells in cancer. **2021**, 77, 100936	3
860	Immunobiology and immunotherapy of HCC: spotlight on innate and innate-like immune cells. **2021**, 18, 112-127	43

859	Applying high-dimensional single-cell technologies to the analysis of cancer immunotherapy. **2021**, 18, 244-256	42
858	Restoration of T-cell Effector Function, Depletion of Tregs, and Direct Killing of Tumor Cells: The Multiple Mechanisms of Action of a-TIGIT Antagonist Antibodies. **2021**, 20, 121-131	8
857	Atypical immunometabolism and metabolic reprogramming in liver cancer: Deciphering the role of gut microbiome. **2021**, 149, 171-255	6
856	TISCH: a comprehensive web resource enabling interactive single-cell transcriptome visualization of tumor microenvironment. **2021**, 49, D1420-D1430	90
855	Down-regulation of EOMES drives T-cell exhaustion via abolishing EOMES-mediated repression of inhibitory receptors of T cells in liver cancer. **2021**, 25, 161-169	4
854	Specific MiRNAs in naïve T cells associated with Hepatitis C Virus-induced Hepatocellular Carcinoma. **2021**, 12, 1-9	2
853	Integrative single-cell transcriptome analysis reveals a subpopulation of fibroblasts associated with favorable prognosis of liver cancer patients. **2021**, 14, 100981	3
852	Single-cell landscape of the ecosystem in early-relapse hepatocellular carcinoma. *Cell*, **2021**, 184, 404-421.e16	96
851	Molecular interactions and functions of IL-32. **2021**, 109, 143-159	9
850	Organized immune cell interactions within tumors sustain a productive T-cell response. **2021**, 33, 27-37	3
849	Translational Bioinformatics for Therapeutic Development. **2021**,	
848	A single-cell map for the transcriptomic signatures of peripheral blood mononuclear cells in end-stage renal disease. **2021**, 36, 599-608	7
847	Single-cell RNA sequencing reveals spatiotemporal heterogeneity and malignant progression in pancreatic neuroendocrine tumor. **2021**, 17, 3760-3775	3
846	Understanding and Targeting Human Cancer Regulatory T Cells to Improve Therapy. **2021**, 1278, 229-256	2
845	Single-Cell Analysis Reveals Characterization of Infiltrating T Cells in Moderately Differentiated Colorectal Cancer. **2020**, 11, 620196	3
844	CD137 T-Cells: Protagonists of the Immunotherapy Revolution. **2021**, 13,	6
843	Phased differentiation of γδT and T CD8 tumor-infiltrating lymphocytes revealed by single-cell transcriptomics of human cancers. **2021**, 10, 1939518	2
842	Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma. **2021**, 27, 289-300	19

841	Pan-cancer analysis and single-cell analysis revealed the role of ABCC5 transporter in hepatocellular carcinoma. **2021**, 15, 541-554	0
840	Next Generation Imaging Techniques to Define Immune Topographies in Solid Tumors. **2020**, 11, 604967	7
839	Development of a prognostic model based on an immunogenomic landscape analysis of medulloblastoma. **2021**, 41,	0
838	Combination of molecularly targeted therapies and immune checkpoint inhibitors in the new era of unresectable hepatocellular carcinoma treatment. **2021**, 13, 17588359211018026	2
837	A Machine Learning Approach Yields a Multiparameter Prognostic Marker in Liver Cancer. **2021**, 9, 337-347	3
836	A Novel mRNA-miRNA Regulatory Sub-Network Associated With Prognosis of Metastatic Clear Cell Renal Cell Carcinoma. **2020**, 10, 593601	1
835	Single-cell analysis reveals transcriptomic remodellings in distinct cell types that contribute to human prostate cancer progression. **2021**, 23, 87-98	53
834	Systematic comparison of high-throughput single-cell RNA-seq methods for immune cell profiling. **2021**, 22, 66	4
833	Poor clinical outcomes and immunoevasive contexture in CXCL13+CD8+ T cells enriched gastric cancer patients. **2021**, 10, 1915560	4
832	Deciphering Tumor Heterogeneity in Hepatocellular Carcinoma (HCC)-Multi-Omic and Singulomic Approaches. **2021**, 41, 9-18	5
831	Single-Cell Multiomics Analysis Reveals Heterogeneous Cell States Linked to Metastatic Potential in Liver Cancer Cell Lines.	
830	Phenotyping of immune and endometrial epithelial cells in endometrial carcinomas revealed by single-cell RNA sequencing. **2021**, 13, 6565-6591	4
829	Single-Cell RNA Sequencing Technologies. **2021**, 555-584	
828	CXCL13 shapes immunoactive tumor microenvironment and enhances the efficacy of PD-1 checkpoint blockade in high-grade serous ovarian cancer. **2021**, 9,	24
827	iPSC-derived mucosal-associated invariant T cells. **2021**, 31-47	
826	Antigen identification for HLA class I- and HLA class II-restricted T cell receptors using cytokine-capturing antigen-presenting cells. **2021**, 6,	2
825	Mapping the functional landscape of T cell receptor repertoires by single-T cell transcriptomics. **2021**, 18, 92-99	12
824	A novel immune classification reveals distinct immune escape mechanism and genomic alterations: implications for immunotherapy in hepatocellular carcinoma. **2021**, 19, 5	33

823	Mapping the immune environment in clear cell renal carcinoma by single-cell genomics. **2021**, 4, 122	31
822	A highly stable multifunctional aptamer for enhancing antitumor immunity against hepatocellular carcinoma by blocking dual immune checkpoints. **2021**, 9, 4159-4168	6
821	Development of a Metastasis-Related Immune Prognostic Model of Metastatic Colorectal Cancer and Its Usefulness to Immunotherapy. **2020**, 8, 577125	4
820	Single-cell and single-variant resolution analysis of clonal evolution in human liver cancer.	
819	Differences in TCR repertoire and T cell activation underlie the divergent outcomes of antitumor immune responses in tumor-eradicating versus tumor-progressing hosts. **2021**, 9,	3
818	Advances in Human Immune System Mouse Models for Personalized Treg-Based Immunotherapies. **2021**, 12, 643544	5
817	Antigen Nonspecific Induction of Distinct Regulatory T Cell States in Oncogene-Driven Hyperproliferative Skin. **2021**, 5, 102-116	2
816	CDSeqR: fast complete deconvolution for gene expression data from bulk tissues.	
815	Mouse models illuminate MAIT cell biology. **2021**, 130, 55-63	1
814	Progress and Clinical Application of Single-Cell Transcriptional Sequencing Technology in Cancer Research. **2020**, 10, 593085	6
813	CD29 enriches for cytotoxic human CD4+ T cells.	2
812	An Unconventional View of T Cell Reconstitution After Allogeneic Hematopoietic Cell Transplantation. **2020**, 10, 608923	0
811	Single-Cell RNA Sequencing Reveals the Expansion of Cytotoxic CD4 T Lymphocytes and a Landscape of Immune Cells in Primary Sjögren's Syndrome. **2020**, 11, 594658	12
810	Pathophysiological Roles of Mucosal-Associated Invariant T Cells in the Context of Gut Microbiota-Liver Axis. **2021**, 9,	1
809	Tumor-specific cytolytic CD4 T cells mediate immunity against human cancer. **2021**, 7,	29
808	Single-cell sequencing characterizes intratumoral profile of immune cells in old mice.	
807	Cellular heterogeneity and plasticity in liver cancer. **2021**,	13
806	Potential therapeutic targets in the tumor microenvironment of hepatocellular carcinoma: reversing the protumor effect of tumor-associated macrophages. **2021**, 40, 73	10

805	Dynamics of thymus function and T cell receptor repertoire breadth in health and disease. **2021**, 43, 119-134	6
804	Chemotherapeutic and targeted agents can modulate the tumor microenvironment and increase the efficacy of immune checkpoint blockades. **2021**, 20, 27	15
803	Therapeutic depletion of CCR8 tumor-infiltrating regulatory T cells elicits antitumor immunity and synergizes with anti-PD-1 therapy. **2021**, 9,	20
802	Proteolysis-targeting chimera against BCL-X destroys tumor-infiltrating regulatory T cells. **2021**, 12, 1281	13
801	Direct Comparative Analyses of 10X Genomics Chromium and Smart-seq2. **2021**, 19, 253-266	31
800	Knowledge-based classification of fine-grained immune cell types in single-cell RNA-Seq data. **2021**, 22,	0
799	Tumor methionine metabolism drives T-cell exhaustion in hepatocellular carcinoma. **2021**, 12, 1455	19
798	Single-cell sequencing in translational cancer research and challenges to meet clinical diagnostic needs. **2021**, 60, 504-524	5
797	Mixed Distribution Models Based on Single-Cell RNA Sequencing Data. **2021**, 13, 362-370	
796	SLC1A4: A Powerful Prognostic Marker and Promising Therapeutic Target for HCC. **2021**, 11, 650355	2
795	Single-cell differential splicing analysis reveals high heterogeneity of liver tumor-infiltrating T cells. **2021**, 11, 5325	3
794	Resident and circulating memory T cells persist for years in melanoma patients with durable responses to immunotherapy. **2021**, 2, 300-311	17
793	Circulating clonally expanded T cells reflect functions of tumor-infiltrating T cells. **2021**, 218,	12
792	A novel panel based on immune infiltration and tumor mutational burden for prognostic prediction in hepatocellular carcinoma. **2021**, 13, 8563-8587	3
791	Blinatumomab-induced T cell activation at single cell transcriptome resolution. **2021**, 22, 145	4
790	Advances in bulk and single-cell multi-omics approaches for systems biology and precision medicine. **2021**, 22,	3
789	High-dimensional analysis of the adenosine pathway in high-grade serous ovarian cancer. **2021**, 9,	6
788	MAIT Cells: Partners or Enemies in Cancer Immunotherapy?. **2021**, 13,	6

787   Recent Advancements in Nanomedicine for 'Cold' Tumor Immunotherapy. **2021**, 13, 92   10

786   Leveraging Single-Cell RNA-seq Data to Uncover the Association Between Cell Type and Chronic Liver Diseases. **2021**, 12, 637322   0

785   Hepatocellular Carcinoma Immune Landscape and the Potential of Immunotherapies. **2021**, 12, 655697   27

784   Circulating mucosal-associated invariant T cells identify patients responding to anti-PD-1 therapy. **2021**, 12, 1669   13

783   CD8 T Cell Responses during HCV Infection and HCC. **2021**, 10,   5

782   Target Reprogramming Lysosomes of CD8+ T Cells by a Mineralized Metal-Organic Framework for Cancer Immunotherapy. **2021**, 33, e2100616   30

781   Global DNA hypermethylation pattern and unique gene expression signature in liver cancer from patients with Indigenous American ancestry. **2021**, 12, 475-492   4

780   Predicting recognition between T cell receptors and epitopes with TCRGP. **2021**, 17, e1008814   13

779   Inhibitory CD161 receptor identified in glioma-infiltrating T cells by single-cell analysis. *Cell*, **2021**, 184, 1281-1298.e26   56.2   55

778   Single-Cell Sequencing, an Advanced Technology in Lung Cancer Research. **2021**, 14, 1895-1909   3

777   The architectural design of CD8+ T cell responses in acute and chronic infection: Parallel structures with divergent fates. **2021**, 218,   6

776   A Burned-Out CD8 T-cell Subset Expands in the Tumor Microenvironment and Curbs Cancer Immunotherapy. **2021**, 11, 1700-1715   21

775   A dual immune signature of CD8+ T cells and MMP9 improves the survival of patients with hepatocellular carcinoma. **2021**, 41,   2

774   Immune cell networks uncover candidate biomarkers of cancer immunotherapy response.

773   Insights Gained from Single-Cell Analysis of Immune Cells in the Tumor Microenvironment. **2021**, 39, 583-609   17

772   WEDGE: imputation of gene expression values from single-cell RNA-seq datasets using biased matrix decomposition. **2021**, 22,   2

771   Single-cell RNA-seq reveals dynamic change in tumor microenvironment during pancreatic ductal adenocarcinoma malignant progression. **2021**, 66, 103315   13

770   RNA Flow Cytometry for the Study of T Cell Metabolism. **2021**, 22,   0

769	Immune Checkpoints in Pediatric Solid Tumors: Targetable Pathways for Advanced Therapeutic Purposes. **2021**, 10,	4
768	Recruitment and Expansion of Tregs Cells in the Tumor Environment-How to Target Them?. **2021**, 13,	13
767	Leveraging Single-Cell Sequencing for Chimeric Antigen Receptor T Cell Therapies. **2021**, 39, 1308-1320	5
766	Low expression of AQP9 and its value in hepatocellular carcinoma.. **2021**, 10, 1826-1841	1
765	Splicing Patterns in -Mutated Uveal Melanoma Generate Shared Immunogenic Tumor-Specific Neoepitopes. **2021**, 11, 1938-1951	9
764	Single-Cell Sequencing Methodologies: From Transcriptome to Multi-Dimensional Measurement.. **2021**, 5, e2100111	6
763	Exhaustion in tumor-infiltrating Mucosal-Associated Invariant T (MAIT) cells from colon cancer patients. **2021**, 70, 3461-3475	6
762	STARTRAC analyses of scRNAseq data from tumor models reveal T cell dynamics and therapeutic targets. **2021**, 218,	5
761	Layilin promotes mitochondrial fission by cyclin-dependent kinase 1 and dynamin-related protein 1 activation in HEK293T cells. **2021**, 549, 143-149	1
760	Tumor resident regulatory T cells. **2021**, 52, 101476	7
759	Single-Cell TCR Sequencing Reveals the Dynamics of T Cell Repertoire Profiling During Infection. **2021**, 12, 637500	1
758	Bardet-Biedl syndrome proteins regulate intracellular signaling and neuronal function in patient-specific iPSC-derived neurons. **2021**, 131,	6
757	Atlas of breast cancer infiltrated B-lymphocytes revealed by paired single-cell RNA-sequencing and antigen receptor profiling. **2021**, 12, 2186	21
756	TRIM68, PIKFYVE, and DYNLL2: The Possible Novel Autophagy- and Immunity-Associated Gene Biomarkers for Osteosarcoma Prognosis. **2021**, 11, 643104	4
755	Leveraging Single-Cell Approaches in Cancer Precision Medicine. **2021**, 7, 359-372	3
754	Monitoring T Cells Responses Mounted by Therapeutic Cancer Vaccines. **2021**, 8, 623475	0
753	Anti-PD-1/PD-L1 Based Combination Immunotherapy to Boost Antigen-Specific CD8 T Cell Response in Hepatocellular Carcinoma. **2021**, 13,	4
752	Activated Regulatory T-Cells, Dysfunctional and Senescent T-Cells Hinder the Immunity in Pancreatic Cancer. **2021**, 13,	3

733	Characterizing the tumor microenvironment of metastatic ovarian cancer by single-cell transcriptomics. **2021**, 35, 109165	11
732	Arid5a Promotes Immune Evasion by Augmenting Tryptophan Metabolism and Chemokine Expression. **2021**, 9, 862-876	2
731	CDSeqR: fast complete deconvolution for gene expression data from bulk tissues. **2021**, 22, 262	1
730	Longitudinal single-cell profiling reveals molecular heterogeneity and tumor-immune evolution in refractory mantle cell lymphoma. **2021**, 12, 2877	1
729	Conserved human effector Treg cell transcriptomic and epigenetic signature in arthritic joint inflammation. **2021**, 12, 2710	10
728	Exploring Markers of Exhausted CD8 T Cells to Predict Response to Immune Checkpoint Inhibitor Therapy for Hepatocellular Carcinoma. **2021**, 10, 346-359	12
727	Progressive immune dysfunction with advancing disease stage in renal cell carcinoma. **2021**, 39, 632-648.e8	42
726	Immune signature-based hepatocellular carcinoma subtypes may provide novel insights into therapy and prognosis predictions. **2021**, 21, 330	6
725	Discovering Cellular Mitochondrial Heteroplasmy Heterogeneity with Single Cell RNA and ATAC Sequencing. **2021**, 10,	3
724	Exploring liver cancer biology through functional genetic screens. **2021**, 18, 690-704	5
723	Single-cell biology to decode the immune cellular composition of kidney inflammation. **2021**, 385, 435-443	0
722	Single-cell RNA sequencing shows the immunosuppressive landscape and tumor heterogeneity of HBV-associated hepatocellular carcinoma. **2021**, 12, 3684	25
721	Applications of single-cell sequencing in cancer research: progress and perspectives. **2021**, 14, 91	17
720	Intratumoral follicular regulatory T cells curtail anti-PD-1 treatment efficacy. **2021**, 22, 1052-1063	11
719	ASRGL1 Correlates With Immune Cell Infiltration in Hepatocellular Carcinoma and Can Serve as a Prognostic Biomarker. **2021**, 11, 680070	2
718	Reprogramming and redifferentiation of mucosal-associated invariant T cells reveals tumor inhibitory activity.	
717	Applications of Single-Cell Omics in Tumor Immunology. **2021**, 12, 697412	4
716	Novel anti-GARP antibody DS-1055a augments anti-tumor immunity by depleting highly suppressive GARP+ regulatory T cells. **2021**, 33, 435-446	4

715	An m6A-Related Prognostic Biomarker Associated With the Hepatocellular Carcinoma Immune Microenvironment. **2021**, 12, 707930	1
714	Single cell sequencing reveals expanded cytotoxic CD4+ T cells and two states of peripheral helper T cells in synovial fluid of ACPA+ RA patients.	
713	Pan-cancer landscape of AID-related mutations, composite mutations and its potential role in the ICI response.	
712	An Immune-Related Prognostic Classifier Is Associated with Diffuse Large B Cell Lymphoma Microenvironment. **2021**, 2021, 5564568	1
711	Toward a Liver Cell Atlas: Understanding Liver Biology in Health and Disease at Single-Cell Resolution. **2021**, 41, 321-330	0
710	Single-Cell Transcriptomics Reveals the Cellular Heterogeneity of Cardiovascular Diseases. **2021**, 8, 643519	2
709	An immune-related E2F gene expression signature provides prognostic information in patients with hepatocellular carcinoma.	0
708	Tumor immunology in the age of single-cell genomics. **2021**, 110, 1069-1079	
707	Dissecting Early Relapse in Liver Cancer, One Cell at a Time. **2021**, 74, 2891-2893	
706	Mapping RNA-binding proteins in human B cells and T cells upon differentiation.	0
705	Neuromedin U and neurotensin may promote the development of the tumour microenvironment in neuroblastoma. **2021**, 9, e11512	0
704	Novel Prognostic Biomarkers in Gastric Cancer: CGB5, MKNK2, and PAPPA2. **2021**, 11, 683582	0
703	Single-cell transcriptomic analysis reveals disparate effector differentiation pathways in human T compartment. **2021**, 12, 3913	4
702	Pivotal factors associated with the immunosuppressive tumor microenvironment and melanoma metastasis. **2021**, 10, 4710-4720	2
701	Maintenance of the human memory T cell repertoire by subset and tissue site. **2021**, 13, 100	5
700	Advancing to the era of cancer immunotherapy. **2021**, 41, 803-829	27
699	Mechanism of action of PD-1 receptor/ligand targeted cancer immunotherapy. **2021**, 51, 1911-1920	7
698	Single-cell chromatin accessibility landscape of human umbilical cord blood in trisomy 18 syndrome. **2021**, 15, 40	1

697	Single-Cell Profiling Explore the Immunologic Mechanisms of Tumor Relapse in Hepatocellular Carcinoma. **2021**, 8, 83-84		
696	Pre-transplant T-cell Clonality: An Observational Study of a Biomarker for Prediction of Sepsis in Liver Transplant Recipients. **2021**, 274, 411-418		1
695	Mechanistic Rationales Guiding Combination Hepatocellular Carcinoma Therapies Involving Immune Checkpoint Inhibitors. **2021**, 74, 2264-2276		5
694	Single-cell RNA sequencing in cancer: Applications, advances, and emerging challenges. **2021**, 21, 183-206		8
693	Resolving the graft ischemia-reperfusion injury during liver transplantation at the single cell resolution. **2021**, 12, 589		0
692	Single-Cell TCR and Transcriptome Analysis: An Indispensable Tool for Studying T-Cell Biology and Cancer Immunotherapy. **2021**, 12, 689091		5
691	Prospects and Challenges for T Cell-Based Therapies of HCC. **2021**, 10,		2
690	Expansion of tumor-associated Treg cells upon disruption of a CTLA-4-dependent feedback loop. *Cell*, **2021**, 184, 3998-4015.e19	56.2	18
689	Single-Cell Analysis of the Pan-Cancer Immune Microenvironment and scTIME Portal. **2021**, 9, 939-951		3
688	Single-cell atlas of tumor cell evolution in response to therapy in hepatocellular carcinoma and intrahepatic cholangiocarcinoma. **2021**, 75, 1397-1408		11
687	Bulk and single-cell transcriptome profiling reveal the metabolic heterogeneity in human breast cancers. **2021**, 29, 2350-2365		4
686	Identification and Characterization of Robust Hepatocellular Carcinoma Prognostic Subtypes Based on an Integrative Metabolite-Protein Interaction Network. **2021**, 8, e2100311		5
685	Role of Oncogenic Pathways on the Cancer Immunosuppressive Microenvironment and Its Clinical Implications in Hepatocellular Carcinoma. **2021**, 13,		12
684	Predictive potential of Nomogram based on GMWG for patients with hepatocellular carcinoma after radical resection. **2021**, 21, 817		1
683	Genomic and transcriptomic profiling of hepatoid adenocarcinoma of the stomach. **2021**, 40, 5705-5717		2
682	CD8 T cell differentiation and dysfunction in cancer. **2021**,		40
681	Topological analysis of hepatocellular carcinoma tumour microenvironment based on imaging mass cytometry reveals cellular neighbourhood regulated reversely by macrophages with different ontogeny. **2021**,		6
680	Single-Cell Analysis of the Multicellular Ecosystem in Viral Carcinogenesis by HTLV-1. **2021**, 2, 450-467		1

679	Inferring single cell expression profiles from overlapped pooling sequencing data with compressed sensing strategy. **2021**, 49, 7995-8006	1
678	Reprogramming of pro-tumor macrophages by hydroxychloroquine in an abdominally metastasized diffuse midline glioma.	1
677	Single-cell Long Non-coding RNA Landscape of T Cells in Human Cancer Immunity. **2021**,	2
676	Tissue-Resident T Cells in Chronic Relapsing-Remitting Intestinal Disorders. **2021**, 10,	0
675	Interleukin-2 inducible T-cell kinase: a potential prognostic biomarker and tumor microenvironment remodeling indicator for hepatocellular carcinoma. **2021**, 13, 18620-18644	0
674	Antigen-Specific Treg Therapy in Type 1 Diabetes - Challenges and Opportunities. **2021**, 12, 712870	3
673	Single-Cell RNA Sequencing of Retina:New Looks for Gene Marker and Old Diseases. **2021**, 8, 699906	1
672	SCISSOR🛇a single-cell inferred site-specific omics resource for tumor microenvironment association study. **2021**, 3, zcab037	0
671	M2 macrophage-derived extracellular vesicles facilitate CD8+T cell exhaustion in hepatocellular carcinoma via the miR-21-5p/YOD1/YAP/🛇catenin pathway. **2021**, 7, 182	6
670	Insights into an Immunotherapeutic Approach to Combat Multidrug Resistance in Hepatocellular Carcinoma. **2021**, 14,	3
669	A single-cell transcriptomic atlas characterizes liver non-parenchymal cells in healthy and diseased mice.	
668	Immunotherapy against programmed death-1/programmed death ligand 1 in hepatocellular carcinoma: Importance of molecular variations, cellular heterogeneity, and cancer stem cells. **2021**, 13, 795-824	0
667	Single-cell dissection of cellular components and interactions shaping the tumor immune phenotypes in ovarian cancer. **2021**, 39, 928-944.e6	28
666	Spatiotemporal Immune Landscape of Colorectal Cancer Liver Metastasis at Single-Cell Level. **2021**,	17
665	Tissue-specific Tregs in cancer metastasis: opportunities for precision immunotherapy. **2021**,	5
664	MultiK: an automated tool to determine optimal cluster numbers in single-cell RNA sequencing data. **2021**, 22, 232	2
663	Cancer biology deciphered by single-cell transcriptomic sequencing. **2021**, 1	3
662	The State of Immunotherapy in Hepatobiliary Cancers. **2021**, 10,	4

661	Cellular based immunotherapy for primary liver cancer. **2021**, 40, 250	2
660	B-Cell Compartmental Features and Molecular Basis for Therapy in Autoimmune Disease. **2021**, 8,	0
659	HHLA2 Expression is Associated with Poor Survival in Patients with Hepatocellular Carcinoma. **2021**, 15, 329-341	2
658	Comprehensive Analyses of the Infiltrating Immune Cell Landscape and Its Clinical Significance in Hepatocellular Carcinoma. **2021**, 14, 4695-4704	3
657	Spatially Distinct Reprogramming of the Tumor Microenvironment Based On Tumor Invasion in Diffuse-Type Gastric Cancers. **2021**, 27, 6529-6542	3
656	A universal approach for integrating super large-scale single-cell transcriptomes by exploring gene rankings.	
655	Single-cell profiling of tumor-infiltrating TCF1/TCF7 T cells reveals a T lymphocyte subset associated with tertiary lymphoid structures/organs and a superior prognosis in oral cancer. **2021**, 119, 105348	3
654	A preliminary investigation into the immune cell landscape of schistosome-associated liver fibrosis in humans. **2021**, 99, 803-813	
653	Research Frontier of Accurate Diagnosis and Treatment Guided by Molecular Typing of Hepatocellular Carcinoma.	
652	Human MAIT cells endowed with HBV specificity are cytotoxic and migrate towards HBV-HCC while retaining antimicrobial functions. **2021**, 3, 100318	1
651	From bench to bedside: Single-cell analysis for cancer immunotherapy. **2021**, 39, 1062-1080	14
650	The Ratio of Exhausted to Resident Infiltrating Lymphocytes Is Prognostic for Colorectal Cancer Patient Outcome. **2021**, 9, 1125-1140	3
649	MAIT cells regulate NK cell-mediated tumor immunity. **2021**, 12, 4746	8
648	IgG Immune Complexes Inhibit Naïve T Cell Proliferation and Suppress Effector Function in Cytotoxic T Cells. **2021**, 12, 713704	1
647	Ferroptosis Suppressive Genes Correlate with Immunosuppression in Glioblastoma. **2021**, 152, e436-e448	7
646	Integrating T cell receptor sequences and transcriptional profiles by clonotype neighbor graph analysis (CoNGA). **2021**,	10
645	Single-Cell RNA Sequencing Reveals the Migration of Osteoclasts in Giant Cell Tumor of Bone. **2021**, 11, 715552	2
644	Schrödinger's T Cells: Molecular Insights Into Stemness and Exhaustion. **2021**, 12, 725618	3

643	Genetic Heterogeneity, Therapeutic Hurdle Confronting Sorafenib and Immune Checkpoint Inhibitors in Hepatocellular Carcinoma. **2021**, 13,	1
642	Cross-tissue single-cell landscape of human monocytes and macrophages in health and disease. **2021**, 54, 1883-1900.e5	30
641	Immune suppressive checkpoint interactions in the tumour microenvironment of primary liver cancers. **2021**,	1
640	Single-Cell RNA-Seq of T Cells in B-ALL Patients Reveals an Exhausted Subset with Remarkable Heterogeneity. **2021**, 8, e2101447	6
639	Technological advances in cancer immunity: from immunogenomics to single-cell analysis and artificial intelligence. **2021**, 6, 312	8
638	Counting on You: How MHC Tetramers Revolutionized the Study of T Cell Memory and CD8 T Cell Exhaustion. **2021**, 207, 1225-1227	
637	Layilin Anchors Regulatory T Cells in Skin. **2021**, 207, 1763-1775	0
636	Intratumoral stem-like CCR4+ regulatory T cells orchestrate the immunosuppressive microenvironment in HCC associated with hepatitis B. **2021**,	9
635	PD-1/PD-L1 blockade: Prospectives for immunotherapy in cancer and autoimmunity. **2021**, 73, 1293-1306	3
634	Autoimmunity affecting the biliary tract fuels the immunosurveillance of cholangiocarcinoma. **2021**, 218,	4
633	A Novel Prognostic Biomarker LPAR6 in Hepatocellular Carcinoma via Associating with Immune Infiltrates.. **2022**, 10, 90-103	0
632	Immunotherapeutic Potential of T Memory Stem Cells. **2021**, 11, 723888	3
631	Human tissue cultures of lung cancer predict patient susceptibility to immune-checkpoint inhibition. **2021**, 7, 264	2
630	GDF15 induces immunosuppression via CD48 on regulatory T cells in hepatocellular carcinoma. **2021**, 9,	3
629	Single-Cell RNA Sequencing Reveals the Heterogeneity of Infiltrating Immune Cell Profiles in the Hepatic Cystic Echinococcosis Microenvironment. **2021**, 89, e0029721	0
628	Biomarkers and Future Perspectives for Hepatocellular Carcinoma Immunotherapy. **2021**, 11, 716844	4
627	Construction and Validation of an Immune Cell Signature Score to Evaluate Prognosis and Therapeutic Efficacy in Hepatocellular Carcinoma. **2021**, 12, 741226	1
626	Mapping genomic and epigenomic evolution in cancer ecosystems. **2021**, 373, 1474-1479	2

| 625 | Effector T cell responses unleashed by regulatory T cell ablation exacerbate oral squamous cell carcinoma. **2021**, 2, 100399 | 2 |

| 624 | Consensus-based clustering of single cells by reconstructing cell-to-cell dissimilarity. **2021**, | 2 |

| 623 | Systematic investigation of cytokine signaling activity at the tissue and single-cell levels. **2021**, 18, 1181-1191 | 6 |

| 622 | Atlas of clinically distinct cell states and ecosystems across human solid tumors. *Cell*, **2021**, 184, 5482-5496.e28 | 96.2 | 21 |

| 621 | A single-cell atlas of liver metastases of colorectal cancer reveals reprogramming of the tumor microenvironment in response to preoperative chemotherapy. **2021**, 7, 80 | 4 |

| 620 | Single cell multi-omics reveals early elevated function and multiple fates within human progenitor exhausted CD8+ T cells. | |

| 619 | Survival Genie: A web platform for single cell data, gene ratio, and cell composition based survival analyses across adult and pediatric cancers. | |

| 618 | CD177 modulates the function and homeostasis of tumor-infiltrating regulatory T cells. **2021**, 12, 5764 | 2 |

| 617 | Tumor infiltrating and peripheral CD4ILT2 T cells are a cytotoxic subset selectively inhibited by HLA-G in clear cell renal cell carcinoma patients. **2021**, 519, 105-116 | 6 |

| 616 | Development and Verification of an Immune-Related Gene Pairs Prognostic Signature in Hepatocellular Carcinoma. **2021**, 8, 715728 | 2 |

| 615 | Integrating single cell sequencing with a spatial quantitative systems pharmacology model spQSP for personalized prediction of triple-negative breast cancer immunotherapy response. **2021**, 1-2, | 4 |

| 614 | Plasmacytoid dendritic cells recruited by HIF-1ΦeADO/ADORA1 signaling induce immunosuppression in hepatocellular carcinoma. **2021**, 522, 80-92 | 7 |

| 613 | Nucleic acid biomarker technology for cancer immunotherapy. **2022**, 331-356 | |

| 612 | Human liver-derived MAIT cells differ from blood MAIT cells in their metabolism and response to TCR-independent activation. **2021**, 51, 879-892 | 2 |

| 611 | Identification of tumor mutation burden-related hub genes and the underlying mechanism in melanoma. **2021**, 12, 2440-2449 | 5 |

| 610 | From Whole Liver to Single Cell Transcriptomics in Sex-Dependent Liver Pathologies. **2021**, 234-243 | |

| 609 | Single-cell analysis reveals the intra-tumor heterogeneity and identifies MLXIPL as a biomarker in the cellular trajectory of hepatocellular carcinoma. **2021**, 7, 14 | 3 |

| 608 | IL-2 regulates tumor-reactive CD8 T cell exhaustion by activating the aryl hydrocarbon receptor. **2021**, 22, 358-369 | 45 |

589	Reconstruction of cell spatial organization based on ligand-receptor mediated self-assembly.	3
588	Molecular determinants and heterogeneity of tissue-resident memory CD8+ T lymphocytes revealed by single-cell RNA sequencing.	4
587	Decoding the transcriptome of atherosclerotic plaque at single-cell resolution.	5
586	Single-cell RNA-Seq reveals the link between CD45 isoforms and tumor-infiltrating T cells heterogeneity in liver cancer.	1
585	Lineage and Spatial Mapping of Glioblastoma-associated Immunity.	3
584	Linking T cell receptor sequence to transcriptional profiles with clonotype neighbor graph analysis (CoNGA).	5
583	Severely ill COVID-19 patients display augmented functional properties in SARS-CoV-2-reactive CD8 T cells. **2020**,	6
582	Single-cell Long Non-coding RNA Landscape of T Cells in Human Cancer Immunity.	1
581	Single-cell landscape of immunological responses in COVID-19 patients.	2
580	Mapping multicellular programs from single-cell profiles.	3
579	Single-cell atlas of tumor clonal evolution in liver cancer.	3
578	The functional and phenotypic diversity of single T-cell infiltrates in human colorectal cancer as correlated with clinical outcome.	1
577	Conserved human effector Treg signature is reflected in transcriptomic and epigenetic landscape.	4
576	The ratio of exhausted to resident infiltrating lymphocytes is prognostic for colorectal cancer patient outcome.	1
575	Single-cell Map of Diverse Immune Phenotypes Driven by the Tumor Microenvironment.	10
574	Integrating single-cell RNA-Seq with spatial transcriptomics in pancreatic ductal adenocarcinoma using multimodal intersection analysis.	18
573	Single-Cell Transcriptomic Analysis of Human Lung Reveals Complex Multicellular Changes During Pulmonary Fibrosis.	7
572	TGF-Induced CXCL13 in CD8+ T cells is associated with tertiary lymphoid structures in cancer.	1

553	Mapping the Immune Landscape of Clear Cell Renal Cell Carcinoma by Single-Cell RNA-seq.	6
552	ImmuCellAI: a unique method for comprehensive T-cell subsets abundance prediction and its application in cancer immunotherapy.	3
551	TGF-βinhibition via CRISPR promotes the long-term efficacy of CAR T cells against solid tumors. **2020**, 5,	97
550	Human Tregs at the materno-fetal interface show site-specific adaptation reminiscent of tumor Tregs. **2020**, 5,	10
549	Requirement of Treg-intrinsic CTLA4/PKCβsignaling pathway for suppressing tumor immunity. **2017**, 2,	17
548	A conserved intratumoral regulatory T cell signature identifies 4-1BB as a pan-cancer target. **2020**, 130, 1405-1416	32
547	IRF4 instructs effector Treg differentiation and immune suppression in human cancer. **2020**, 130, 3137-3150	44
546	Myeloid signature reveals immune contexture and predicts the prognosis of hepatocellular carcinoma. **2020**, 130, 4679-4693	17
545	Immune profiling of pediatric solid tumors. **2020**, 130, 3391-3402	12
544	Cancer immunosurveillance by CD8 T cells. **2020**, 9,	4
543	A single cell atlas of the human liver tumor microenvironment. **2020**, 16, e9682	26
542	Inefficient induction of circulating TAA-specific CD8+ T-cell responses in hepatocellular carcinoma. **2019**, 10, 5194-5206	14
541	Immunotherapy of hepatocellular carcinoma with infection of hepatitis B or C virus. **2020**, 6,	4
540	Exhausted T cells and epigenetic status. **2020**, 17, 923-936	12
539	Single-cell RNA Sequencing in Immunology. **2020**, 21, 564-575	6
538	Immune Phenotype and Immune Checkpoint Inhibitors for the Treatment of Human Hepatocellular Carcinoma. **2020**, 12,	13
537	Tissue-Resident Lymphocytes: Implications in Immunotherapy for Hepatocellular Carcinoma. **2020**, 22,	4
536	Construction of a risk score prognosis model based on hepatocellular carcinoma microenvironment. **2020**, 26, 134-153	24

535	Intratumoral heterogeneity of hepatocellular carcinoma: From single-cell to population-based studies. **2020**, 26, 3720-3736	12
534	Tracking the important role of in hepatocellular carcinoma by single-cell sequencing analysis. **2020**, 19, 1478-1486	4
533	Single-Cell Ssequencing in Cancer: Recent Applications to Immunogenomics and Multi-omics Tools. **2018**, 16, e17	11
532	Hedgehog signaling patterns the oral-aboral axis of the mandibular arch. **2019**, 8,	21
531	Understanding the glioblastoma immune microenvironment as basis for the development of new immunotherapeutic strategies. **2020**, 9,	75
530	Cancer systems immunology. **2020**, 9,	3
529	Application of single-cell RNA sequencing technology in liver diseases: a narrative review. **2021**, 9, 1598	
528	CD161, a promising Immune Checkpoint, correlates with Patient Prognosis: A Pan-cancer Analysis. **2021**, 12, 6588-6599	2
527	Single-cell analyses reveal key immune cell subsets associated with response to PD-L1 blockade in triple-negative breast cancer. **2021**,	35
526	ImmuCellAI-mouse: a tool for comprehensive prediction of mouse immune cell abundance and immune microenvironment depiction. **2021**,	7
525	Drug-Induced Resistance and Phenotypic Switch in Triple-Negative Breast Cancer Can Be Controlled via Resolution and Targeting of Individualized Signaling Signatures. **2021**, 13,	3
524	The Single-Cell Sequencing: A Dazzling Light Shining on the Dark Corner of Cancer. **2021**, 11, 759894	
523	Clonally expanded CD38hi cytotoxic CD8 T cells define the T cell infiltrate in checkpoint inhibitor-associated arthritis.	2
522	Rapid Identification of the Tumor-Specific Reactive TIL Repertoire Combined Detection of CD137, TNF, and IFN Following Recognition of Autologous Tumor-Antigens. **2021**, 12, 705422	0
521	Single-cell transcriptomic analysis of the tumor ecosystems underlying initiation and progression of papillary thyroid carcinoma. **2021**, 12, 6058	4
520	The Single-Cell Transcriptomic Analysis of Prefrontal Pyramidal Cells and Interneurons Reveals the Neuronal Expression of Genes Encoding Antimicrobial Peptides and Immune Proteins. **2021**, 12, 749433	1
519	Targeted Anti-Tumor Immunotherapy Using Tumor Infiltrating Cells. **2021**, 8, e2101672	7
518	Dynamic regulatory networks of T cell trajectory dissect transcriptional control of T cell state transition. **2021**, 26, 1115-1129	1

517	Crosstalk Between the Tumor Microenvironment and Cancer Cells: A Promising Predictive Biomarker for Immune Checkpoint Inhibitors. **2021**, 9, 738373	1
516	Single-cell atlas of lineage states, tumor microenvironment and subtype-specific expression programs in gastric cancer. **2021**,	9
515	The GPR171 pathway suppresses T cell activation and limits antitumor immunity. **2021**, 12, 5857	1
514	Application of Single-Cell Multi-Omics in Dissecting Cancer Cell Plasticity and Tumor Heterogeneity. **2021**, 8, 757024	3
513	Single-cell sequencing reveals antitumor characteristics of intratumoral immune cells in old mice. **2021**, 9,	0
512	Miscell: An efficient self-supervised learning approach for dissecting single-cell transcriptome. **2021**, 24, 103200	0
511	3D liver tumor microenvironment models for immune cell therapy optimization. **2021**, 5, 041502	0
510	Excitation-emission matrix fluorescence spectroscopy combined with chemometrics methods for rapid identification and quantification of adulteration in Atractylodes macrocephala Koidz. **2021**, 171, 106884	1
509	Big data and single cell transcriptomics: implications for ontological representation.	
508	Efficient inference of single cell expression profiles with overlapping pooling and compressed sensing.	
507	Single-cell Transcriptomic Landscape of Nucleated Cells in Umbilical Cord Blood.	0
506	CaSpER: Identification, visualization and integrative analysis of CNV events in multiscale resolution using single-cell or bulk RNA sequencing data.	1
505	A novel signature derived from immunoregulatory and hypoxia genes predicts prognosis in liver and five other cancers.	
504	scCapsNet: a deep learning classifier with the capability of interpretable feature extraction, applicable for single cell RNA data analysis.	1
503	Single-cell analysis of Crohn disease lesions identifies a pathogenic cellular module associated with resistance to anti-TNF therapy.	0
502	Single-cell profiling of tumor-reactive CD4+T-cells reveals unexpected transcriptomic diversity.	
501	Integrative network modeling reveals mechanisms underlying T cell exhaustion.	0
500	Exploring and analysing immune single cell multi-omics data with VDJView.	

499 Identification of a basal stem cell subpopulation in the prostate via functional, lineage tracing and single-cell RNA-seq analyses. 2

498 Single-cell transcriptomics reveals expansion of cytotoxic CD4 T-cells in supercentenarians. 0

497 Single-cell profiling guided combinatorial immunotherapy for fast-evolving CDK4/6 inhibitor resistant HER2-positive breast cancer.

496 Estimation of immune cell content in tumor using single-cell RNA-seq reference data.

495 A Single-Cell Immune Atlas of Triple Negative Breast Cancer Reveals Novel Immune Cell Subsets. 2

494 Opposing immune and genetic forces shape oncogenic programs in synovial sarcoma.

493 Single cell genomic characterization reveals the cellular reprogramming of the gastric tumor microenvironment. 1

492 Single cell transcriptome of CD8+ T cells in multiple cancers reveals comprehensive exhaustion associated mechanisms. 1

491 WEDGE: imputation of gene expression values from single-cell RNA-seq datasets using biased matrix decomposition.

490 Landscape of transcript isoforms in single T cells infiltrating in non-small cell lung cancer.

489 Single-cell differential splicing analysis reveals high heterogeneity of liver tumor-infiltrating T cells.

488 A Pan-cancer Blueprint of the Heterogeneous Tumour Microenvironment Revealed by Single-Cell Profiling. 5

487 Immune repertoire of digestive system tumors. **2020**, 28, 335-340

486 Activated regulatory T-cells, dysfunctional and senescent T-cells dominate the microenvironment of pancreatic cancer. 1

485 Inferring cellular trajectories from scRNA-seq using Pseudocell Tracer.

484 Dissecting the landscape of activated CMV-stimulated CD4+ T cells in human by linking single-cell RNA-seq with T-cell receptor sequencing.

483 Contribution of resident and circulating precursors to tumor-infiltrating CD8+ T cell populations in non-small cell lung cancer patients.

482 TISCH: a comprehensive web resource enabling interactive single-cell transcriptome visualization of tumor microenvironment. 1

| 481 | Immunogenomic Landscape Analysis of Prognostic Immune-Related Genes in Hepatocellular Carcinoma. **2021**, 2021, 3761858 | 2 |

| 480 | Pan-cancer mapping of single T cell profiles reveals a TCF1:CXCR6-CXCL16 regulatory axis essential for effective anti-tumor immunity. | 2 |

| 479 | NKG2A is a late immune checkpoint on CD8 T cells and marks repeated stimulation and cell division. **2021**, | 1 |

| 478 | The immune niche of the liver. **2021**, 135, 2445-2466 | 1 |

| 477 | Intrinsic and Extrinsic Control of Hepatocellular Carcinoma by TAM Receptors. **2021**, 13, | |

| 476 | Single-Cell Transcriptomics. **2022**, 585-606 | |

| 475 | The Liver as a Lymphoid Organ. **2020**, 17-33 | 1 |

| 474 | DSAVE: Detection of misclassified cells in single-cell RNA-Seq data. **2020**, 15, e0243360 | 0 |

| 473 | Single cell gene fusion detection by scFusion. | |

| 472 | Single-Cell RNA-Seq Reveals Dynamic Change in Tumor Microenvironment During Pancreatic Ductal Adenocarcinoma Malignant Progression. | |

| 471 | Single-cell qPCR Assay with Massively Parallel Microfluidic System. **2020**, 10, e3563 | |

| 470 | Hepatobiliary Cancers and Immunology. **2020**, 505-524 | |

| 469 | Knowledge-based classification of fine-grained immune cell types in single-cell RNA-Seq data with ImmClassifier. | |

| 468 | Deciphering and Reversing Immunosuppressive Cells in the Treatment of Hepatocellular Carcinoma. **2020**, 20, 1-16 | 1 |

| 467 | Myeloid antigen-presenting cell niches sustain antitumor T cells and license PD-1 blockade via CD28 costimulation. **2021**, | 3 |

| 466 | Intratumor Heterogeneity in Hepatocellular Carcinoma: Challenges and Opportunities. **2021**, 13, | 2 |

| 465 | Current Perspectives on the Immunosuppressive Niche and Role of Fibrosis in Hepatocellular Carcinoma and the Development of Antitumor Immunity. **2021**, 221554211056853 | 1 |

| 464 | Deciphering the Intercellular Communication Network of Peripartum Decidua that Orchestrates Delivery. **2021**, 9, 770621 | 0 |

463   Single-cell analysis reveals EP4 as a target for restoring T cell infiltration and sensitizing prostate cancer to immunotherapy. **2021**,   3

462   Single-cell transcriptome analysis of the immunosuppressive effect of differential expression of tumor PD-L1 on responding TCR-T cells.

461   Circulating Clonally Expanded T Cells Reflect Functions of Tumor Infiltrating T Cells.

460   Systematic comparison of high-throughput single-cell RNA-seq methods for immune cell profiling.

459   Single cell RNA-seq reveals immunosuppressive gastric stem-like cancer cells as a poor prognostic factor.   1

458   Combined protein and transcript single cell RNA sequencing in human peripheral blood mononuclear cells.   2

457   ATPIF1 inactivation promotes antitumor immunity through metabolic reprogramming of CD8+ T cells.

456   Regulation of intracellular signaling and neuron function by Bardet-Biedl Syndrome proteins in patient-specific iPSC-derived neurons.

455   Single-cell Multi-omics reveal heterogeneity and metastasis potential in different liver cancer cell lines.   0

454   Dendritic cells based immunotherapy. **2017**, 7, 2091-2102   39

453   Capture a live-photo of tumor infiltrating T cell landscape at single cell resolution. **2019**, 16, 619-622   3

452   Pre-treatment neutrophils count as a prognostic marker to predict chemotherapeutic response and survival outcomes in glioma: a single-center analysis of 288 cases. **2020**, 12, 90-104   8

451   T lymphocytes in hepatocellular carcinoma immune microenvironment: insights into human immunology and immunotherapy. **2020**, 10, 4585-4606   8

450   Current concept for tertiary lymphoid structures in urothelial carcinoma of the bladder: a literature review and our experience. **2020**, 9, 64-72   0

449   Exposure to Tobacco Smoking Induces a subset of Activated Tumor-resident Tregs in Non-Small Cell Lung Cancer. **2021**, 15, 101261   0

448   Spatial transcriptomics reveals gene expression characteristics in invasive micropapillary carcinoma of the breast. **2021**, 12, 1095   3

447   Amplification of spatially isolated adenosine pathway by tumor-macrophage interaction induces anti-PD1 resistance in hepatocellular carcinoma. **2021**, 14, 200   2

446   Deciphering cell lineage specification of human lung adenocarcinoma with single-cell RNA sequencing. **2021**, 12, 6500   7

445	Targeting Immune Cells in the Tumor Microenvironment of HCC: New Opportunities and Challenges. **2021**, 9, 775462		7
444	CD29 Enriches for Cytotoxic Human CD4 T Cells. **2021**,		1
443	Rapid and efficient generation of antigen-specific isogenic T cells from cryopreserved blood samples.		
442	Distribution, phenotype, functional and clinical relevance of CD8CD103 tissue-resident memory T cells in human gastric cancer. **2021**, 1		0
441	Immunosuppression and outcomes in adult patients with de novo acute myeloid leukemia with normal karyotypes. **2021**, 118,		3
440	Activated but impaired IFN-production of mucosal-associated invariant T cells in patients with hepatocellular carcinoma. **2021**, 9,		1
439	RNA-Binding Protein Expression Alters Upon Differentiation of Human B Cells and T Cells. **2021**, 12, 717324		1
438	mTOR-dependent translation drives tumor infiltrating CD8 effector and CD4 Treg cells expansion. **2021**, 10,		1
437	Targeting T Cell Subtypes for NAFLD and NAFLD-Related HCC Treatment: An Opinion. **2021**, 8, 789859		4
436	Neoadjuvant PD-1 blockade induces T cell and cDC1 activation but fails to overcome the immunosuppressive tumor associated macrophages in recurrent glioblastoma. **2021**, 12, 6938		12
435	Single-cell analysis of diverse immune phenotypes in malignant pleural effusion. **2021**, 12, 6690		5
434	Single-cell transcriptomics reveals opposing roles of Shp2 in Myc-driven liver tumor cells and microenvironment. **2021**, 37, 109974		4
433	Immunotherapies for hepatocellular carcinoma. **2021**,		57
432	Cancer stem cells: advances in biology and clinical translation-a Keystone Symposia report. **2021**,		1
431	Clinical implementation of single-cell RNA sequencing using liver fine needle aspirate tissue sampling and centralized processing captures compartment specific immuno-diversity.		1
430	An NK-like CAR T cell transition in CAR T cell dysfunction. *Cell*, **2021**, 184, 6081-6100.e26	56.2	15
429	A universal approach for integrating super large-scale single-cell transcriptomes by exploring gene rankings.. **2022**,		
428	Single-Cell Atlas of Infiltrating B Cells and Their Clinical Outcomes in Colorectal Cancer.		

409	Dissecting the heterogeneity of the microenvironment in primary and recurrent nasopharyngeal carcinomas using single-cell RNA sequencing.. **2022**, 11, 2026583	1
408	Revealing Clonal Responses of Tumor-Reactive T-Cells Through T Cell Receptor Repertoire Analysis.. **2022**, 13, 807696	1
407	Identification of an IDO1-based immune classifier for survival prediction of upper tract urothelial carcinoma.. **2021**,	1
406	A GSVA based gene set synergizing with CD4+T cell bearing harmful factors yield risk signals in HBV related diseases via amalgamation of artificial intelligence.	
405	Regulatory T cells: Their role in triple-negative breast cancer progression and metastasis.. **2022**,	0
404	TNFR2 pathways are fully active in cancer regulatory T cells.. **2022**,	2
403	Single-Cell RNA-Seq Technologies and Computational Analysis Tools: Application in Cancer Research.. **2022**, 2413, 245-255	1
402	The Pellino1-PKCⵠsignaling axis is an essential target for improving anti-tumor CD8+ T-lymphocyte function.. **2022**,	0
401	PD-L1CD8 Tⵠcells enrichment in lung cancer exerted regulatory function and tumor-promoting tolerance.. **2022**, 25, 103785	1
400	Selective delivery of low-affinity IL-2 to PD-1+ T cells rejuvenates antitumor immunity with reduced toxicity.. **2022**, 132,	4
399	Identifying and antagonizing the interactions between layilin and glycosylated collagens.. **2022**,	
398	Lung cancer scRNA-seq and lipidomics reveal aberrant lipid metabolism for early-stage diagnosis.. **2022**, 14, eabk2756	2
397	Single-cell multiomics reveals heterogeneous cell states linked to metastatic potential in liver cancer cell lines.. **2022**, 25, 103857	0
396	Recent advances in T-cell receptor repertoire analysis: Bridging the gap with multimodal single-cell RNA sequencing. **2022**, 5, 100009	0
395	Single-cell transcriptomics reveals a low CD8 T cell infiltrating state mediated by fibroblasts in recurrent renal cell carcinoma.. **2022**, 10,	1
394	Integrating bulk and single-cell RNA sequencing reveals cellular heterogeneity and immune infiltration in hepatocellular carcinoma.. **2022**,	1
393	Single-cell transcriptome landscape of zebrafish liver reveals hepatocytes and immune cell interactions in understanding nonalcoholic fatty liver disease.	0
392	Prognostic and Clinical Significance of Aspartate Aminotransferase-to-Lymphocyte Ratio Index in Individuals with Liver Cancer: A Meta-Analysis.. **2022**, 2022, 3533714	

391   The PD-L1/4-1BB bispecific Antibody-Anticalin fusion protein PRS-344/S095012 elicits strong T-cell stimulation in a tumor-localized manner.. **2022**,   4

390   Single-cell analysis reveals a pathogenic cellular module associated with early allograft dysfunction after liver transplantation.

389   Multiplex imaging reveals the architecture of the tumor immune microenvironment. **2021**,   0

388   Temporal single-cell tracing reveals clonal revival and expansion of precursor exhausted T cells during anti-PD-1 therapy in lung cancer.. **2022**, 3, 108-121   9

387   Pan-cancer single-cell landscape of tumor-infiltrating T cells.. **2021**, 374, abe6474   29

386   Immunogenomics: a potential approach for precision medicine. **2022**, 267-277

385   Immunotherapies for hepatocellular carcinoma and intrahepatic cholangiocarcinoma: Current and developing strategies. **2022**,   0

384   Causes and functional intricacies of inter- and intratumor heterogeneity of primary liver cancers. **2022**,

383   In silico tools and databases for designing cancer immunotherapy.. **2022**, 129, 1-50

382   Tumor-derived exosomes in hypoxic microenvironment: release mechanism, biological function and clinical application.. **2022**, 13, 1685-1694   2

381   Chronic Type I Interferons Signaling Promotes Lipid Peroxidation-Driven Terminal CD8 <sup>+</sup>T Cell Exhaustion and Curtails Anti-PD-1 Treatment Efficacy.

380   Improving Cancer Immunotherapy: Exploring and Targeting Metabolism in Hypoxia Microenvironment.. **2022**, 13, 845923   1

379   Single-cell transcriptome analysis uncovers the molecular and cellular characteristics of thin endometrium.. **2022**, 36, e22193   1

378   Survival Genie, a web platform for survival analysis across pediatric and adult cancers.. **2022**, 12, 3069   1

377   Ulcerative colitis is characterized by a plasmablast-skewed humoral response associated with disease activity.. **2022**,   2

376   The Role of COL22A1 in the Pathophysiology of Hepatocellular Carcinoma: Evidence from Bioinformatics Exploration. Volume 14, 739-750

375   Single-cell gene fusion detection by scFusion.. **2022**, 13, 1084   1

374   Single-cell transcriptomic analysis reveals intratumoral heterogeneity and identifies a gene signature associated with prognosis of hepatocellular carcinoma.. **2022**,   0

373   The Bright and the Dark Side of TGF-ß Signaling in Hepatocellular Carcinoma: Mechanisms, Dysregulation, and Therapeutic Implications.. **2022**, 14,   2

372   Dahuang Zhechong pills inhibit liver cancer growth in a mouse model by reversing Treg/Th1 balance.. **2022**, 20, 102-110   0

371   Identification and validation a costimulatory molecule gene signature to predict the prognosis and immunotherapy response for hepatocellular carcinoma.. **2022**, 22, 97   2

370   Determining the Prognostic Value of Spliceosome-Related Genes in Hepatocellular Carcinoma Patients.. **2022**, 9, 759792   0

369   T-cell dysfunction in the glioblastoma microenvironment is mediated by myeloid cells releasing interleukin-10.. **2022**, 13, 925   8

368   Rapid and efficient generation of antigen-specific isogenic T cells from cryopreserved blood samples.. **2022**,

367   Single-cell immunology: Past, present, and future.. **2022**, 55, 393-404   7

366   Cell Differentiation Trajectory in Liver Cirrhosis Predicts Hepatocellular Carcinoma Prognosis and Reveals Potential Biomarkers for Progression of Liver Cirrhosis to Hepatocellular Carcinoma.. **2022**, 13, 858905   0

365   Human epigenetic and transcriptional T cell differentiation atlas for identifying functional T cell-specific enhancers.. **2022**, 55, 557-574.e7   0

364   Characteristics and Clinical Significance of T-Cell Receptor Repertoire in Hepatocellular Carcinoma.. **2022**, 13, 847263

363   The interaction of CD4 helper T cells with dendritic cells shapes the tumor microenvironment and immune checkpoint blockade response.. **2022**,   8

362   Trajectory of immune evasion and cancer progression in hepatocellular carcinoma.. **2022**, 13, 1441   2

361   Landscape of T Cells in NK-AML(M4/M5) Revealed by Single-Cell Sequencing.. **2022**,   0

360   Single-cell RNA sequencing reveals intrahepatic and peripheral immune characteristics related to disease phases in HBV-infected patients.. **2022**,   3

359   Novel Perspectives in Immune Checkpoint Inhibitors and the Management of Non-Alcoholic Steatohepatitis-Related Hepatocellular Carcinoma.. **2022**, 14,   0

358   A Novel Gene Signature Based on CDC20 and FCN3 for Prediction of Prognosis and Immune Features in Patients with Hepatocellular Carcinoma.. **2022**, 2022, 9117205   0

357   Single cell Transcriptome and T cell Repertoire Mapping of the Mechanistic Signatures and T cell Trajectories Contributing to Vascular and Dermal Manifestations of Behcet Disease.

356   Multimodal Studies in Hepatitis B Virus Associated Hepatocellular Carcinoma. **2022**, Publish Ahead of Print,

355	Tumor-immune Co-evolution in Hepatocellular Carcinoma and Its Implication for Immunotherapy Resistance. **2022**,	1
354	Single-Cell RNA Sequencing with Spatial Transcriptomics of Cancer Tissues.. **2022**, 23,	4
353	Single-cell profiling of human CD127 innate lymphoid cells reveals diverse immune phenotypes in hepatocellular carcinoma.. **2022**,	0
352	Transcriptional profiling demonstrates altered characteristics of CD8 cytotoxic T-cells and regulatory T-cells in TP53-mutated acute myeloid leukemia.. **2022**,	1
351	Adaptive antitumor immune response stimulated by bio-nanoparticle based vaccine and checkpoint blockade.. **2022**, 41, 132	0
350	Hepatocellular carcinoma-infiltrating ⍰T cells are functionally defected and allogenic V⍰ ⍰T cell can be a promising complement.. **2022**, 12, e800	4
349	CAR+ and CAR- T cells differentiate into an NK-like subset that is associated with increased inflammatory cytokines following infusion.	
348	T cell exhaustion and residency dynamics inform clinical outcomes in hepatocellular carcinoma.. **2022**,	2
347	Tumor-Activated Carrier-Free Prodrug Nanoparticles for Targeted Cancer Immunotherapy: Preclinical Evidence for Safe and Effective Drug Delivery.. **2022**, 114177	9
346	Reprogramming and redifferentiation of mucosal-associated invariant T cells reveal tumor inhibitory activity.. **2022**, 11,	2
345	Emerging Immunotherapy for Hepatocellular Carcinoma: A Guide for Hepatologists.. **2022**,	7
344	Understanding initiation and progression of hepatocellular carcinoma through single cell sequencing.. **2022**, 1877, 188720	2
343	Multi-material basis and multi-mechanisms of the Dahuang Zhechong pill for regulating Treg/Th1 balance in hepatocellular carcinoma.. **2022**, 100, 154055	0
342	In situ ratiometric SERS imaging of intracellular protease activity for subtype discrimination of human breast cancer.. **2022**, 207, 114194	3
341	Immunotherapy for Hepatocellular Carcinoma: New Prospects for the Cancer Therapy.. **2021**, 11,	1
340	Tumor-Associated Regulatory T Cell Expression of LAIR2 Is Prognostic in Lung Adenocarcinoma.. **2021**, 14,	1
339	CREM Is Correlated With Immune-Suppressive Microenvironment and Predicts Poor Prognosis in Gastric Adenocarcinoma.. **2021**, 9, 697748	0
338	Anti-tumor effect of ginkgetin on human hepatocellular carcinoma cell lines by inducing cell cycle arrest and promoting cell apoptosis. **2021**, 1-12	3

337	Single-Cell Transcriptome Analysis Reveals RGS1 as a New Marker and Promoting Factor for T-Cell Exhaustion in Multiple Cancers.. **2021**, 12, 767070	3
336	Identification of molecular subtypes and prognostic signature for hepatocellular carcinoma based on genes associated with homologous recombination deficiency.. **2021**, 11, 24022	1
335	Key Candidate Prognostic Biomarkers Correlated with Immune Infiltration in Hepatocellular Carcinoma.. **2021**, 8, 1607-1622	0
334	Comprehensive analysis of spatial architecture in primary liver cancer.. **2021**, 7, eabg3750	5
333	TGFΩSignaling Blockade for Cancer Immunotherapy. **2022**, 6,	0
332	Application and prospects of single cell sequencing in tumors.. **2021**, 9, 88	1
331	scESI: evolutionary sparse imputation for single-cell transcriptomes from nearest neighbor cells.. **2022**,	1
330	Systematic Elucidation and Pharmacological Targeting of Tumor-Infiltrating Regulatory T Cell Master Regulators.	1
329	TIGER: A Web Portal of Tumor Immunotherapy Gene Expression Resource.	
328	Different subpopulations of regulatory T cells in human autoimmune disease, transplantation, and tumor immunity.. **2022**, 3, e137	0
327	Single-Cell Sequencing and Its Applications in Liver Cancer.. **2022**, 12, 857037	1
326	Pregnancy and Tumour: The Parallels and Differences in Regulatory T Cells.. **2022**, 13, 866937	1
325	Single-Cell Sequencing Identifies the Heterogeneity of CD8+ T Cells and Novel Biomarker Genes in Hepatocellular Carcinoma.. **2022**, 2022, 8256314	0
324	Transcriptomic profiles of neoantigen-reactive T cells in human gastrointestinal cancers.. **2022**, 40, 410-423.e7	4
323	Identification of two immune-related risk score signatures through integrated analysis of multi-omics data in hepatocellular carcinoma.. **2022**, 146519	
322	Programme of self-reactive innate-like T cell-mediated cancer immunity.. **2022**,	3
321	An immune subtype-related prognostic signature of hepatocellular carcinoma based on single-cell sequencing analysis.. **2022**, 14,	3
320	Image_1.TIF. **2020**,	

319   Image_2.TIF. **2020,**

318   Table_1.XLSX. **2020,**

317   Data_Sheet_1.pdf. **2020,**

316   Data_Sheet_1.DOCX. **2020,**

315   Table_1.XLS. **2020,**

314   Table_2.XLS. **2020,**

313   Image_1.pdf. **2020,**

312   Table_1.xls. **2020,**

311   Image_1.JPEG. **2020,**

310   Image_2.JPEG. **2020,**

309   Image_3.JPEG. **2020,**

308   Image_4.JPEG. **2020,**

307   Image_5.JPEG. **2020,**

306   Table_1.XLSX. **2020,**

305   Table_2.XLSX. **2020,**

304   Presentation_1.PPTX. **2020,**

303   Table_1.xlsx. **2020,**

302   Table_1.XLSX. **2019,**

301   Data_Sheet_1.docx. **2019**,

300   Image_1.TIF. **2020**,

299   Table_1.XLSX. **2020**,

298   Table_2.XLSX. **2020**,

297   Data_Sheet_1.docx. **2018**,

296   Table_1.XLSX. **2018**,

295   Table_2.XLSX. **2018**,

294   Table_3.XLSX. **2018**,

293   Table_4.XLSX. **2018**,

292   Table_5.XLSX. **2018**,

291   Table_6.XLSX. **2018**,

290   Table_7.XLSX. **2018**,

289   Table_8.XLSX. **2018**,

288   Presentation_1.PPTX. **2019**,

287   Table_1.xlsx. **2019**,

286   Table_2.xlsx. **2019**,

285   Table_3.xlsx. **2019**,

284   Table_4.docx. **2019**,

283   Data_Sheet_1.PDF. **2019**,

282   Image_1.pdf. **2020**,

281   Image_2.pdf. **2020**,

280   Image_3.pdf. **2020**,

279   Table_1.xlsx. **2020**,

278   Table_2.xlsx. **2020**,

277   Table_3.xlsx. **2020**,

276   Image_1.TIF. **2020**,

275   Table_1.pdf. **2020**,

274   Image_1.TIF. **2020**,

273   Image_2.TIF. **2020**,

272   A phenotypic signature that identifies neoantigen-reactive T cells in fresh human lung cancers.. **2022**,   0

271   Analysis of the Heterogeneity of the Tumor Microenvironment and the Prognosis and Immunotherapy Response of Different Immune Subtypes in Hepatocellular Carcinoma.. **2022**, 2022, 1087399

270   Capture a live-photo of tumor infiltrating T cell landscape at single cell resolution. **2019**, 16, 619-622   2

269   Tumor heterogeneity reshapes the tumor microenvironment to influence drug resistance.. **2022**, 18, 3019-3033   0

268   The Functional Implication of ATF6 in Castration-Resistant Prostate Cancer Cells.

267   The Era of Cytotoxic CD4 T Cells.. **2022**, 13, 867189   2

266   Dissecting Intra-Tumoral Changes Following Immune Checkpoint Blockades in Intrahepatic Cholangiocarcinoma Single-Cell Analysis.. **2022**, 13, 871769   0

265	Spatial determinants of CD8 T cell differentiation in cancer.. **2022**,	0
264	Spatially informed cell-type deconvolution for spatial transcriptomics.. **2022**,	3
263	CD4 Cytotoxic T cells - Phenotype, Function and Transcriptional Networks Controlling Their Differentiation Pathways.. **2022**,	2
262	DIALOGUE maps multicellular programs in tissue from single-cell or spatial transcriptomics data.. **2022**,	1
261	Single-cell landscape of immunocytes in patients with extrahepatic cholangiocarcinoma.. **2022**, 20, 210	0
260	Single-cell characterization of malignant phenotypes and microenvironment alteration in retinoblastoma.. **2022**, 13, 438	0
259	Decaprenyl Diphosphate Synthase Subunit 1 (PDSS1): A Potential Prognostic Biomarker and Immunotherapy-Target for Hepatocellular Carcinoma.. **2022**, 14, 1627-1639	
258	High-throughput single-cell sequencing in cancer research.. **2022**, 7, 145	1
257	An activation to memory differentiation trajectory of tumor-infiltrating lymphocytes informs metastatic melanoma outcomes.. **2022**, 40, 524-544.e5	2
256	Dysregulation of immune checkpoint proteins in hepatocellular carcinoma: Impact on metabolic reprogramming.. **2022**, 64, 102232	
255	Molecular pathogenesis and systemic therapies for hepatocellular carcinoma.. **2022**, 3, 386-401	8
254	Single cell transcriptomics of liver cancer - hype or insights?. **2022**,	2
253	Personalized treatment for hepatocellular carcinoma: Current status and Future perspectives.. **2022**,	0
252	Artificial intelligence for the prevention and clinical management of hepatocellular carcinoma.. **2022**, 76, 1348-1361	3
251	Intrahepatic inflammatory IgAPD-L1 monocytes in hepatocellular carcinoma development and immunotherapy.. **2022**, 10,	1
250	The Regulatory-T-Cell Memory Phenotype: What We Know. **2022**, 11, 1687	2
249	Reconstruction of the cell pseudo-space from single-cell RNA sequencing data with scSpace.	0
248	Robust alignment of single-cell and spatial transcriptomes with CytoSPACE.	0

229	Immune Cell Networks Uncover Candidate Biomarkers of Melanoma Immunotherapy Response. **2022**, 12, 958	
228	Application and prospect of single-cell sequencing in cancer metastasis. **2022**, 18, 2723-2736	0
227	Role of Lymphocytes in Cancer Immunity and Immune Evasion Mechanisms. **2022**, 159-182	
226	Microfluidics for Cancer Biomarker Discovery, Research, and Clinical Application. **2022**, 499-524	0
225	Integrated Single-Cell RNA-Sequencing Analysis of Gastric Cancer Identifies FABP1 as a Novel Prognostic Biomarker. **2022**, 2022, 1-16	0
224	Hepatocellular Carcinoma.	
223	Single cell sequencing reveals trajectory of tumor-infiltrating lymphocyte states in pancreatic cancer.	0
222	Colorectal Cancer-Infiltrating Regulatory T Cells: Functional Heterogeneity, Metabolic Adaptation, and Therapeutic Targeting. 13,	1
221	Spatial Transcriptomics for Tumor Heterogeneity Analysis. 13,	0
220	An M0 macrophage-related prognostic model for hepatocellular carcinoma. **2022**, 22,	0
219	A Predictive Model Based on Pyroptosis-Related Gene Features Can Effectively Predict Clear Cell Renal Cell Carcinoma Prognosis and May Be an Underlying Target for Immunotherapy. **2022**, 2022, 1-21	
218	Missing Value Imputation With Low-Rank Matrix Completion in Single-Cell RNA-Seq Data by Considering Cell Heterogeneity. 13,	0
217	Gene-Regulatory Network Study of Rheumatoid Arthritis in Single-Cell Chromatin Landscapes of Peripheral Blood Mononuclear Cells.	
216	Identification of a cytokine-dominated immunosuppressive class in squamous cell lung carcinoma with implications for immunotherapy resistance. **2022**, 14,	1
215	Comprehensive Analysis Identifies and Validates the Tumor Microenvironment Subtypes to Predict Anti-Tumor Therapy Efficacy in Hepatocellular Carcinoma. 13,	1
214	Reshaping the systemic tumor immune environment (STIE) and tumor immune microenvironment (TIME) to enhance immunotherapy efficacy in solid tumors. **2022**, 15,	0
213	Hepatocellular Carcinoma Intrinsic Cell Death Regulates Immune Response and Prognosis. 12,	
212	Follicular Lymphoma Microenvironment Characteristics Associated with Tumor Cell Mutations and MHC Class II Expression. OF1-OF16	1

211   Mechanisms and strategies to overcome immunotherapy resistance in hepatobiliary malignancies. **2022**,   0

210   Hepatocellular Carcinoma: Understanding the Inflammatory Implications of the Microbiome. **2022**, 23, 8164   0

209   Single-Cell Transcriptomic Analysis Reveals Macrophage⊡Tumor Crosstalk in Hepatocellular Carcinoma. 13,   0

208   Approaches to spatially resolving the tumour immune microenvironment of hepatocellular carcinoma. **2022**, 14, 175883592211132   0

207   Impact of single-cell RNA sequencing on understanding immune regulation.   0

206   A Study on the Radiosensitivity of Radiation-Induced Lung Injury at the Acute Phase Based on Single-Cell Transcriptomics. 13,

205   Hepatocellular Carcinoma: Aetiology and Mechanisms of Development. A Literature Review. **2022**, 12, 139-150

204   Single-cell analysis of peripheral CD8+ T cell responses in patients receiving checkpoint blockade immunotherapy for cancer.

203   A multi-omic approach reveals utility of CD45 expression in prognosis and novel target discovery. 13,

202   Single-cell landscape and clinical outcomes of infiltrating B cells in colorectal cancer.   0

201   Four-copy number alteration (CNA)-related lncRNA prognostic signature for liver cancer. **2022**, 12,

200   A single-cell atlas of the multicellular ecosystem of primary and metastatic hepatocellular carcinoma. **2022**, 13,   5

199   Single-cell atlas of diverse immune populations in the advanced biliary tract cancer microenvironment. **2022**, 6,   1

198   Research progress on application of single-cell TCR/BCR sequencing technology to the tumor immune microenvironment, autoimmune diseases, and infectious diseases. 13,

197   Comprehensive analysis of complement-associated molecular features in hepatocellular carcinoma. **2022**,

196   Unraveling the Complexity of Liver Disease One Cell at a Time. **2022**, 42, 250-270

195   TIGIT blockade elicits potent anti-tumor immunity in naturally occurring hepatitis B virus-related hepatocellular carcinoma in mice.   0

194   Neuregulin 4 suppresses NASH-HCC development by restraining tumor-prone liver microenvironment. **2022**,   0

193	miR-2392 serves as an immunological and prognostic biomarker in hepatocellular carcinoma.	0
192	Predicting response to immunotherapy in gastric cancer via multi-dimensional analyses of the tumour immune microenvironment. **2022**, 13,	2
191	The Role of Macrophage-Derived Extracellular Vesicles in Gastrointestinal Cancers.	
190	Immune modulation by molecularly targeted photothermal ablation in a mouse model of advanced hepatocellular carcinoma and cirrhosis. **2022**, 12,	0
189	The heterogeneous immune landscape between lung adenocarcinoma and squamous carcinoma revealed by single-cell RNA sequencing. **2022**, 7,	2
188	Combining radiation with immune checkpoint inhibitors therapy for HCC: From the alteration of the immune microenvironment by radiotherapy. **2022**,	0
187	CausalCell: applying causal discovery to single-cell analyses.	
186	The Liver Cancer Immune Microenvironment: Therapeutic Implications for Hepatocellular Carcinoma.	4
185	Immunotherapy for hepatocellular carcinoma.	1
184	Single cell RNA-seq reveals the CCL5/SDC1 receptor-ligand interaction between T cells and tumor cells in pancreatic cancer. **2022**, 545, 215834	0
183	S100A10 might be a novel prognostic biomarker for head and neck squamous cell carcinoma based on bioinformatics analysis. **2022**, 149, 106000	0
182	Graphdiyne oxide nanosheets exert anti-lymphoma effect by killing cancer stem cells and remodeling tumor microenvironment. **2022**, 46, 101622	0
181	Mitochondrial fragmentation in liver cancer: Emerging player and promising therapeutic opportunities. **2022**, 549, 215912	0
180	Multimodal T Cell Analysis with CoNGA. **2022**, 367-388	0
179	Characterization of Mouse CD4 TCR and Its Targeting Antigen. **2022**, 221-232	0
178	Discovery and characterization of tumor antigens in hepatocellular carcinoma for mRNA vaccine development.	0
177	TIGER: A Web Portal of Tumor Immunotherapy Gene Expression Resource. **2022**,	1
176	Neoadjuvant Therapy for Hepatocellular Carcinoma. Volume 9, 929-946	0

175	Identification of the molecular subtype and prognostic characteristics of pancreatic cancer based on CD8 + T cell-related genes.	0
174	T cell responses induced by SARS-CoV-2 mRNA vaccination are associated with clonal replacement.	0
173	scRNA-seq reveals ATPIF1 activity in control of T cell antitumor activity. **2022**, 11,	0
172	Single-cell sequencing reveals effects of chemotherapy on the immune landscape and TCR/BCR clonal expansion in a relapsed ovarian cancer patient. 13,	0
171	Novel TCF21high pericyte subpopulation promotes colorectal cancer metastasis by remodelling perivascular matrix. gutjnl-2022-327913	1
170	Dissection of cellular and molecular mechanisms of aristolochic acid-induced hepatotoxicity via single-cell transcriptomics.	0
169	Effects of scoparone on non-alcoholic fatty liver disease revealed by RNA sequencing. 13,	0
168	Transmembrane and coiled-coil domains 3 is a diagnostic biomarker for predicting immune checkpoint blockade efficacy in hepatocellular carcinoma. 13,	0
167	Combined protein and transcript single-cell RNA sequencing in human peripheral blood mononuclear cells. **2022**, 20,	0
166	Computational Biology Predicts the Efficacy of Tumor Immune Checkpoint Blockade. **2022**, 2022, 1-9	0
165	OncomiRs as noncoding RNAs having functions in cancer: Their role in immune suppression and clinical implications. 13,	2
164	Identification of genetic loci shared between Alzheimer disease and hypertension.	0
163	Overcoming resistance to immune checkpoint inhibitors in hepatocellular carcinoma: Challenges and opportunities. 12,	0
162	Recent developments in application of single-cell RNA sequencing in the tumour immune microenvironment and cancer therapy. **2022**, 9,	0
161	Single-cell sequencing and establishment of an 8-gene prognostic model for pancreatic cancer patients. 12,	0
160	A metabolism-associated gene signature for prognosis prediction of hepatocellular carcinoma. 9,	0
159	A Case Report on Longitudinal Collection of Tumour Biopsies for Gene Expression-Based Tumour Microenvironment Analysis from Pancreatic Cancer Patients Treated with Endoscopic Ultrasound Guided Radiofrequency Ablation. **2022**, 29, 6754-6763	0
158	Deciphering the role of transforming growth factor-beta 1 as a diagnostic-prognostic-therapeutic candidate against hepatocellular carcinoma. 28, 5250-5264	0

157	IL1R2 increases regulatory T cell population in the tumor microenvironment by enhancing MHC-II expression on cancer-associated fibroblasts. **2022**, 10, e004585	o
156	Dendritic cell-derived IL-27 p28 regulates T cell program in pathogenicity and alleviates acute graft-versus-host disease. **2022**, 7,	o
155	ATXN2-Mediated PI3K/AKT Activation Confers Gastric Cancer Chemoresistance and Attenuates CD8+ T Cell Cytotoxicity. **2022**, 2022, 1-16	o
154	Fibroblasts mediate the angiogenesis of pheochromocytoma by increasing COX4I2 expression. 12,	o
153	Intratumoral Niches of B Cells and Follicular Helper T Cells, and the Absence of Regulatory T Cells, Associate with Longer Survival in Early-Stage Oral Tongue Cancer Patients. **2022**, 14, 4298	o
152	Combining single-cell RNA sequencing of peripheral blood mononuclear cells and exosomal transcriptome to reveal the cellular and genetic profiles in COPD. **2022**, 23,	o
151	Single-cell transcriptomic profiling reveals the tumor heterogeneity of small-cell lung cancer. **2022**, 7,	o
150	SPATS2 is correlated with cell cycle progression and immune cells infiltration in hepatocellular carcinoma.	o
149	A single administration of hIL-7-hyFc induces long-lasting T-cell expansion with maintained functions and TCR diversity.	o
148	Revealing the heterogeneity of CD4+ T cells through single-cell transcriptomics. **2022**, 150, 748-755	o
147	BATF epigenetically and transcriptionally controls the activation program of regulatory T cells in human tumors. **2022**, 7,	o
146	Cytotoxic T Cell Expression of Leukocyte-Associated Immunoglobulin-Like Receptor-1 (LAIR-1) in Viral Hepatitis C-Mediated Hepatocellular Carcinoma. **2022**, 23, 12541	o
145	Single-cell transcriptomics and deep tissue proteomics reveal distinct tumour microenvironment present in stage-I and II cervical cancer.	o
144	Integrated analysis of single-cell and bulk RNA-sequencing identifies a signature based on T-cell marker genes to predict prognosis and therapeutic response in lung squamous cell carcinoma. 13,	1
143	Low-dose anti-VEGFR2 therapy promotes anti-tumor immunity in lung adenocarcinoma by down-regulating the expression of layilin on tumor-infiltrating CD8+T cells.	o
142	Depletion of BATF in CAR-T cells enhances antitumor activity by inducing resistance against exhaustion and formation of central memory cells. **2022**,	1
141	Combining precision oncology and immunotherapy by targeting the MALT1 protease. **2022**, 10, e005442	o
140	Prognostic value and immunological role of BAIAP2L2 in liver hepatocellular carcinoma: A pan-cancer analysis. 9,	o

139 ATG101-related signature predicts prognosis and therapeutic option in hepatocellular carcinoma. **2022**, 12, — 0

138 Systemic vaccination induces CD8+ T cells and remodels the tumor microenvironment. **2022**, — 2

137 Tumor microenvironment: barrier or opportunity towards effective cancer therapy. **2022**, 29, — 0

136 Liver Metastasis Modulate Responses of Suppressive Macrophages and Exhausted T Cells to Immunotherapy Revealed by Single Cell Sequencing. 2200002 — 0

135 Advances in single-cell sequencing technology in the field of hepatocellular carcinoma. 13, — 0

134 Integrative insights and clinical applications of single-cell sequencing in cancer immunotherapy. **2022**, 79, — 1

133 A novel risk score based on immune-related genes for hepatocellular carcinoma as a reliable prognostic biomarker and correlated with immune infiltration. 13, — 0

132 Advances in antibody discovery from human BCR repertoires. 2, — 0

131 Single-cell sequencing technologies in bladder cancer research: Applications and challenges. 13, — 1

130 Single-Cell Heterogeneity of the Liver-Infiltrating Lymphocytes in Individuals with Chronic Echinococcus multilocularis Infection. — 0

129 Single-cell RNA-seq transcriptomic landscape of human and mouse islets and pathological alterations of diabetes. **2022**, 25, 105366 — 0

128 Understanding the Immunoenvironment of Primary Liver Cancer: A Histopathology Perspective. Volume 9, 1149-1169 — 0

127 Chemokine CCL5 immune subtypes of human liver cancer with prognostic significance. **2022**, 113, 109372 — 0

126 Human T lymphocytes at tumor sites. — 0

125 Hyaluronan Receptors as Mediators and Modulators of the Tumor Microenvironment. 2202118 — 0

124 Evolving therapeutic landscape of advanced hepatocellular carcinoma. — 0

123 TREM1+regulatory myeloid cells expand in steatohepatitis-HCC and associate with poor prognosis and therapeutic resistance to immune checkpoint blockade. — 0

122 Egr2 and 3 maintain anti-tumour responses of exhausted tumour infiltrating CD8 + T cells. — 0

121	Clinical Implications and Molecular Characterization of Drebrin-Positive, Tumor-Infiltrating Exhausted T Cells in Lung Cancer. **2022**, 23, 13723	0
120	Chronic type I interferon signaling promotes lipid-peroxidation-driven terminal CD8+ T cell exhaustion and curtails anti-PD-1 efficacy. **2022**, 41, 111647	0
119	Single-cell sequencing reveals the landscape of the tumor microenvironment in a skeletal undifferentiated pleomorphic sarcoma patient. 13,	0
118	Differential expression of CCR8 in tumors versus normal tissue allows specific depletion of tumor-infiltrating T regulatory cells by GS-1811, a novel Fc-optimized anti-CCR8 antibody. **2022**, 11,	1
117	Liver tumour immune microenvironment subtypes and neutrophil heterogeneity.	5
116	ncRNA-Regulated LAYN Serves as a Prognostic Biomarker and Correlates with Immune Cell Infiltration in Hepatocellular Carcinoma: A Bioinformatics Analysis. **2022**, 2022, 1-23	0
115	T cell receptor convergence is an indicator of antigen-specific T cell response in cancer immunotherapies. 11,	0
114	The tumour-associated stroma correlates with poor clinical outcomes and immunoevasive contexture in patients with upper tract urothelial carcinoma: results from a multicenter real-world study (TSU-01 Study).	0
113	Neoepitopes prediction strategies: an integration of cancer genomics and immunoinformatics approaches.	0
112	SIGIRR deficiency contributes to CD4 T cell abnormalities by facilitating the IL1/C/EBPβ/TNF-α signaling axis in rheumatoid arthritis. **2022**, 28,	1
111	Estimation of Tumor Immune Signatures from Transcriptomics Data. **2022**, 311-338	0
110	Renoprotective anti-CD45RB antibody induces B cell production in systemic lupus erythematosus based on single-cell RNA-seq analysis. **2023**, 134, 102949	0
109	Immune index: A gene and cell prognostic signature for immunotherapy response prediction in hepatocellular carcinoma. **2023**, 187, 106583	0
108	Comprehensive Analysis of Cuproptosis-Related Genes in Prognosis and Immune Infiltration of Hepatocellular Carcinoma Based on Bulk and Single-Cell RNA Sequencing Data. **2022**, 14, 5713	0
107	ESPL1 is Elevated in Hepatocellular Carcinoma and Predicts Prognosis. Volume 15, 8381-8398	0
106	Pan-cancer analyses reveal multi-omics and clinical characteristics of RIO kinase 2 in cancer. 10,	0
105	Integrated multi-omics Landscape of liver metastases. **2022**,	1
104	Isoformic PD-1-mediated immunosuppression underlies resistance to PD-1 blockade in hepatocellular carcinoma patients. gutjnl-2022-327133	0

103	Clinical value of identifying genes that inhibit hepatocellular carcinomas. **2022**, 22, 1009-1035	0
102	Data analysis guidelines for single-cell RNA-seq in biomedical studies and clinical applications. **2022**, 9,	0
101	Identification of human progenitors of exhausted CD8+ T cells associated with elevated IFN-□ response in early phase of viral infection. **2022**, 13,	0
100	Immunosuppressive role of SPP1-CD44 in the tumor microenvironment of intrahepatic cholangiocarcinoma assessed by single-cell RNA sequencing.	0
99	Pan-cancer analysis of oncogenic BARX2 identifying its prognostic value and immunological function in Liver hepatocellular carcinoma.	0
98	Evaluation of pulmonary single-cell identity specificity in scRNA-seq analysis. **2022**, 12,	0
97	Multiregional single-cell dissection of tumor and immune cells reveals stable lock-and-key features in liver cancer. **2022**, 13,	1
96	Single-cell profiling of T cells uncovers a tissue-resident memory-like T-cell subset associated with bidirectional prognosis for B-cell acute lymphoblastic leukemia. 13,	0
95	Harnessing the Power of Mucosal-Associated Invariant T (MAIT) Cells in Cancer Cell Therapy. **2022**, 10, 3160	0
94	Comprehensive analysis of prognostic value, relationship to cell cycle, immune infiltration and m6A modification of ZSCAN20 in hepatocellular carcinoma.	0
93	Neutrophil interactions with T cells, platelets, endothelial cells, and of course tumor cells.	0
92	LFSC: A linear fast semi-supervised clustering algorithm that integrates reference-bulk and single-cell transcriptomes. 13,	0
91	Spatial heterogeneity of infiltrating T□cells in high-grade serous ovarian cancer revealed by multi-omics analysis. **2022**, 3, 100856	0
90	NAFLD and HBV interplay - related mechanisms underlying liver disease progression. 13,	0
89	Establishing a signature based on immunogenic cell death-related gene pairs to predict immunotherapy and survival outcomes of patients with hepatocellular carcinoma.	0
88	The functional implication of ATF6□n castration-resistant prostate cancer cells. **2023**, 37,	0
87	Hepatocellular carcinoma (HCC) Tumor microenvironment is more suppressive than colorectal cancer liver metastasis (CRLM) Tumor microenvironment..	0
86	Crosstalk between 5-methylcytosine and N6-methyladenosine machinery defines disease progression, therapeutic response and pharmacogenomic landscape in hepatocellular carcinoma. **2023**, 22,	0

85	Epigenetic modification-related mechanisms of hepatocellular carcinoma resistance to immune checkpoint inhibition. 13,	0
84	Distinct single-cell immune ecosystems distinguish true and de novo HBV-related hepatocellular carcinoma recurrences. gutjnl-2022-328428	0
83	SPATS2 is correlated with cell cycle progression and immune cells infiltration in hepatocellular carcinoma. **2023**, 23,	0
82	Identifying key multifunctional components shared by critical cancer and normal liver pathways via SparseGMM. **2023**, 100392	0
81	Spatial and single-cell transcriptomics decipher the cellular environment containing HLA-G+ cancer cells and SPP1+ macrophages in colorectal cancer. **2023**, 42, 111929	0
80	Comparative analysis of thoracic and abdominal aortic aneurysms across the segment and species at the single-cell level. 13,	0
79	A Systemic Inflammation Response Score for Prognostic Prediction in Hepatocellular Carcinoma Patients After Hepatectomy. Volume 15, 6869-6881	0
78	New Therapeutics for HCC: Does Tumor Immune Microenvironment Matter?. **2023**, 24, 437	0
77	Comprehensive Bioinformatics Analysis Reveals PTPN1 (PTP1B) Is a Promising Immunotherapy Target Associated with T Cell Function for Liver Cancer. **2023**, 2023, 1-19	0
76	Single-cell transcriptomic landscape deciphers novel olfactory neuroblastoma subtypes and intratumoral heterogeneity.	0
75	Single-nucleus RNA sequencing and deep tissue proteomics reveal distinct tumour microenvironment in stage-I and II cervical cancer. **2023**, 42,	0
74	STAT3 regulates CD8+ T cell differentiation and functions in cancer and acute infection. **2023**, 220,	0
73	Ultrasound targeted microbubble destruction-triggered nitric oxide release via nanoscale ultrasound contrast agent for sensitizing chemoimmunotherapy. **2023**, 21,	0
72	Single-cell transcriptome analysis reveals the metabolic changes and the prognostic value of malignant hepatocyte subpopulations and predict new therapeutic agents for hepatocellular carcinoma. 13,	0
71	CD200 + cytotoxic T lymphocytes in the tumor microenvironment are crucial for efficacious antiPD-1/PD-L1 therapy. **2023**, 15,	0
70	Metabolic rearrangements and intratumoral heterogeneity for immune response in hepatocellular carcinoma. 14,	0
69	Risk modelling of single cell transcriptomes reveals the heterogeneity of immune infiltration in hepatocellular carcinoma. **2023**, 102948	0
68	Reversing the NK inhibitory tumor microenvironment by targeting suppressive immune effectors. **2023**, 27-63	0

67	Costimulatory domains direct distinct fates of CAR-driven T cell dysfunction.	0
66	Identification of a tumour immune barrier in the HCC microenvironment that determines the efficacy of immunotherapy.. **2023**,	1
65	The application of RNA sequencing in precision cancer medicine. **2023**,	0
64	CEACAM1 marks highly suppressive intratumoral regulatory T cells for targeted depletion therapy.	0
63	SULT2B1-CS-DOCK2 axis regulates effector T-cell exhaustion in HCC microenvironment. Publish Ahead of Print,	0
62	Deciphering the immune heterogeneity dominated by natural killer cells with prognostic and therapeutic implications in hepatocellular carcinoma. **2023**, 158, 106872	0
61	scRNA-Seq and imaging mass cytometry analyses unveil iNKT cells-mediated anti-tumor immunity in pancreatic cancer liver metastasis. **2023**, 561, 216149	0
60	Unraveling the heterogeneity of cholangiocarcinoma and identifying biomarkers and therapeutic strategies with single-cell sequencing technology. **2023**, 162, 114697	0
59	Time-resolved single-cell transcriptomics reveals the landscape and dynamics of hepatic cells in sepsis-induced acute liver dysfunction. **2023**, 5, 100718	0
58	High throughput detection of variation in single-cell whole transcriptome through streamlined scFAST-seq.	0
57	Immunology and immunotherapy of cholangiocarcinoma.	1
56	JAML immunotherapy targets recently activated tumor-infiltrating CD8+ T cells. **2023**, 42, 112040	0
55	Spatially resolved transcriptomics revealed local invasion-related genes in colorectal cancer. 13,	0
54	Tissue-specific abundance of interferon-gamma drives regulatory T cells to restrain DC1-mediated priming of cytotoxic T cells against lung cancer. **2023**, 56, 386-405.e10	1
53	CD39+conventional CD4+T cells with exhaustion traits and cytotoxic potential infiltrate tumors and expand upon CTLA-4 blockade.	0
52	Deletion of SNX9 alleviates CD8 T cell exhaustion for effective cellular cancer immunotherapy. **2023**, 14,	0
51	Landscape of immunocytes infiltration and prognostic immune-related genes in hepatocellular carcinoma. **2023**,	0
50	Evolutionary route of nasopharyngeal carcinoma metastasis and its clinical significance. **2023**, 14,	1

49	Single-cell RNA-seq revealing the immune features of donor liver during liver transplantation. 14,	0
48	The immune-metabolic crosstalk between CD3+C1q+TAM and CD8+T cells associated with relapse-free survival in HCC. 14,	0
47	Preoperative sintilimab plus transarterial chemoembolization for hepatocellular carcinoma exceeding the Milan criteria: A phase II trial. **2023**, 7, e0054-e0054	0
46	The Application of Single-Cell RNA Sequencing in the Inflammatory Tumor Microenvironment. **2023**, 13, 344	0
45	Peripheral immune factors aiding clinical parameter for better early recurrence prediction of hepatocellular carcinoma after thermal ablation. **2023**, 40,	1
44	Exploration of the heterogeneity and interaction of epithelial cells and NK/T-cells in Laryngeal Squamous Cell Carcinoma based on single-cell RNA sequencing data. **2023**,	0
43	Attention-Based Graph Neural Network for Label Propagation in Single-Cell Omics. **2023**, 14, 506	0
42	Transcriptomic profiling of programmed cell death 1 (PD-1) expressing T cells in early rheumatoid arthritis identifies a decreased CD4 + PD-1 + signature post-treatment. **2023**, 13,	0
41	Elevated STIL predicts poor prognosis in patients with hepatocellular carcinoma. **2023**, 102, e33004	0
40	TIPE2 acts as a tumor suppressor and correlates with tumor microenvironment immunity in epithelial ovarian cancer.	0
39	Targeting LAYN inhibits colorectal cancer metastasis and tumor-associated macrophage infiltration induced by hyaluronan oligosaccharides. **2023**, 117, 15-30	0
38	scSTAR reveals hidden heterogeneity with a real-virtual cell pair structure across conditions in single-cell RNA sequencing data. **2023**, 24,	0
37	Circulating the HLA-DR+ T Cell Ratio Is a Prognostic Factor for Recurrence of Patients with Hepatocellular Carcinoma after Curative Surgery. **2023**, 2023, 1-11	0
36	BCAT1 inhibition affects CD8+T cell activation, exhaustion, and tumoral immunity by altering iron homeostasis.	0
35	CD4+ cytotoxic T cells: an emerging effector arm of anti-tumor immunity. **2023**, 56, 140-144	0
34	Single-cell transcriptomic analysis deciphers key transitional signatures associated with oncogenic evolution in human intramucosal oesophageal squamous cell carcinoma. **2023**, 13,	0
33	The role of hyaluronan in renal cell carcinoma. 14,	0
32	TREM2+ macrophages suppress CD8+ T cell infiltration after transarterial chemoembolization in hepatocellular carcinoma. **2023**,	0

31   High-resolution alignment of single-cell and spatial transcriptomes with CytoSPACE.   0

30   Anti-Correlation of KLRG1 and PD-1 Expression in Human Tumor CD8 T Cells.   0

29   Preclinical and clinical studies of immunotherapy for the treatment of cholangiocarcinoma. **2023**, 100723   0

28   InClust+: the multimodal version of inClust for multimodal data integration, imputation, and cross modal generation.   0

27   Innate-like T lymphocytes in chronic liver disease. 14,   0

26   Characterization of heterogeneous metabolism in hepatocellular carcinoma identifies new therapeutic target and treatment strategy. 14,   0

25   A model based on immune-related lncRNA pairs and its potential prognostic value in immunotherapy for melanoma. **2023**, 23,   0

24   Stepwise activities of mSWI/SNF family chromatin remodeling complexes direct T cell activation and exhaustion. **2023**, 83, 1216-1236.e12   0

23   Integrative epigenetic analysis reveals AP-1 promotes activation of tumor-infiltrating regulatory T cells in HCC. **2023**, 80,   0

22   Single-cell transcriptome analysis uncovers underlying mechanisms of acute liver injury induced by tripterygium glycosides tablet in mice. **2023**,   0

21   Neutralizing IL-8 potentiates immune checkpoint blockade efficacy for glioma. **2023**, 41, 693-710.e8   0

20   Prioritizing exhausted T cell marker genes highlights immune subtypes in pan-cancer. **2023**, 26, 106484   0

19   Prognostic prediction and multidimensional dissections of a macrophages M0-related gene signature in liver cancer. 14,   0

18   T cells in the heterogeneous tumour immune microenvironment of hepatocellular carcinoma: Implications for immune checkpoint inhibitor therapy. **2023**, 4, 58-72   0

17   CD83 expression characterizes precursor exhausted T cell population. **2023**, 6,   0

16   Spatiotemporally deciphering the mysterious mechanism of persistent HPV-induced malignant transition and immune remodelling from HPV-infected normal cervix, precancer to cervical cancer: Integrating single-cell RNA-sequencing and spatial transcriptome. **2023**, 13,   0

15   Extracellular Vesicles Act as Carriers for Cargo Delivery and Regulate Wnt Signaling in the Hepatocellular Carcinoma Tumor Microenvironment. **2023**, 15, 2088   0

14   Establishment and validation of exhausted CD8+ T cell feature as a prognostic model of HCC. 14,   0

13	A Deep-Learning-Computed Cancer Score for the Identification of Human Hepatocellular Carcinoma Area Based on a Six-Colour Multiplex Immunofluorescence Panel. **2023**, 12, 1074	0
12	Re-evaluating the melanoma TIL compartment and its unexpected spectrum of exhausted and functional T cells.	0
11	Advancing Cancer Immunotherapy Through Integrating Molecular and Computational Approaches. **2023**, 1-22	0
10	Machine learning-based construction of immunogenic cell death-related score for improving prognosis and response to immunotherapy in melanoma. **2023**, 15, 2667-2688	0
9	Prognostic values of tissue-resident CD8+T cells in human hepatocellular carcinoma and intrahepatic cholangiocarcinoma. **2023**, 21,	0
8	Cuproptosis-related molecular subtypes direct T cell exhaustion phenotypes and therapeutic strategies for patients with lung adenocarcinoma. 14,	0
7	Dynamics and specificities of T cells in cancer immunotherapy.	0
6	Phenotypic plasticity and reduced tissue retention of exhausted tumor-infiltrating T cells following neoadjuvant immunotherapy in head and neck cancer. **2023**,	0
5	Metabolic Reprogramming of HCC: A New Microenvironment for Immune Responses. **2023**, 24, 7463	0
4	Modeling cross-talk of RNA modification enzymes reveals tumor microenvironment-associated clinical significance and immunotherapy prediction in hepatobiliary malignancy. **2023**, 4,	0
3	Recent advances in recurrent hepatocellular carcinoma therapy. 15, 460-476	0
2	The Combination of R848 with Sorafenib Enhances Antitumor Effects by Reprogramming the Tumor Immune Microenvironment and Facilitating Vascular Normalization in Hepatocellular Carcinoma.	0
1	Distinct association between chronic EBV infection and T cell compartments from pediatric heart, kidney, and liver transplant recipients. **2023**,	0