

A robust single nuclei RNA sequencing work-flow for frozen and archived tissues

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Poster #: 1

Enhancement of tumor antigen-specific T cell responses by engineered antigen-presenting cells

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Poster #: 2

Obesity-induced pancreatic steatosis promotes nerve innervation, driving pancreatic tumorigenesis

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Poster #: 3

DNA methylation profiling of EBV reveals diagnostic and therapeutic applications in lymphoma

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Poster #: 4

Genomic and immunologic effects from combination immunotherapy in the neoadjuvant setting for RCC

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Poster #: 5

Exploring the role of endothelial cells as antigen-presenting cells in melanoma

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Poster #: 6

Interrogating tumor-specific T cell phenotypes and function in metastatic melanoma

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Characterization of a novel murine model to identify immune responses in pancreatic cancer cachexia

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Investigating the role of TLR5 signaling in the failure of FLT3 ligand therapy for ovarian cancer

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Poster #: 9

Changes in TLS activity and function impact development and immune landscape of tumor in lung cancer

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Poster #: 10

Ovarian cancer-induced ascites fluid promotes differentiation of antibody secreting plasma cells

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Poster #: 11

Fez1 Inhibits ATRA-Mediated Differentiation in MLL-Rearranged Leukemias

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Phase I anti-CD3 x HER2 bispecific ab armed T cells and pembrolizumab in metastatic breast cancer

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Poster #: 13

Universal CAR T Cell Targeting of Multiple Antigens on Patient-Derived PDAC Organoids

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The TACtful Study: Path to a First-in-Human Trial of BCMA-Specific TAC-T cells in Patients with RRMM

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Poster #: 15

Engineered T cell therapy modulates tumor-infiltrating CD4 T cell differentiation in ovarian cancer

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Adenine Base editing outperforms CRISPR/Cas9 in a Quadruple Knockout CAR T cell design

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Poster #: 17

Comparative Insights into Glutamine Metabolism and Mitochondrial Function in Canine T Cells

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Cytokine-mediated expansion of clonal hematopoiesis after CART cell therapy

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Poster #: 19

aAPC cell-derived particles allows for the robust and rapid manufacturing of patient T cells

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Poster #: 20

Targeting Universal Chimeric Antigen Receptor (CAR) T cells using chloroalkane-conjugated adaptors

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Targeted combination therapy to overcome adenosine-mediated immune suppression in ovarian cancer

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Modulating costimulation in CAR T cells to enhance durability

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DOTA-specific universal immune receptor: folate receptor-alpha as a target for ovarian cancer

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Poster #: 24

Bispecific Checkpoint Inhibition of PD-1 and CTLA-4 Expands and Reprograms Exhausted T-Cells

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In vivo screening of LAG3 function by amino acid mutagenesis screening

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Combination of Poly-ICLC and S100A9 Blockade Enhances Immune Checkpoint Inhibitor Efficacy in TNBC

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Local control post preoperative radiotherapy + immune checkpoint blockade is mediated by CD8 T cells

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Preclinical evaluation and optimization of TIL expansion for pediatric gliomas.

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Functional Characterization of LAG3 Ligands that Modulate Immune Response in the Tumor

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Improving the Abscopal Response of Radiotherapy and Immune Checkpoint Inhibitors with Entolimod

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Determining the Role of TOX in the Maintenance of CD8+ T cell Exhaustion and Memory Development

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IFN γ derived from Tex contributes to maintaining Tex population and memory response in melanoma

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The LRIG1-VISTA axis Suppresses Immune Surveillance in TNBC Murine Model

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Mutant Isocitrate Dehydrogenase 1 Causes Reduced Immune-Inhibitory Protein CD73 in the Glioma TME

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Identification of tumor-specific conventional CD4+ T cells in non-small cell lung cancer

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Poster #: 36

CRISPR: A Way Forward

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Fungi utilize the exocytosis pathway to drive IL-33 release and promote PDAC progression

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The Role of Genetic Variability in Tumor Antigen Processing and Targeted Immunotherapy Response

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E4 and E5 viral proteins are associated with increased anti-tumor immunity in HNSCC patients

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HPV status impacts oncobacteria abundance and prognostic relevance in HNSCC

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Bacterial signatures and metagenomic alterations linked to lymph node metastasis in laryngeal cancer

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Development of a TriKE for in vivo NK cell expansion and cytotoxicity against solid tumors

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Role of intratumoral bacteria burden on mouse model of HPV+ oropharyngeal squamous cell carcinomas

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Sexual Dimorphism Drives ILC2 Function in Lung Adenocarcinoma

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Fusobacterium Nucleatum Strains have Varied Levels of Invasiveness in Head and Neck Cancer

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Investigating the mechanism of Helicobacter hepaticus mediated tertiary lymphoid structure formation

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The Modulation of Natural Killer Cells by Macrophage-Secreted BIGH3 (TGFB1) in Ovarian Cancer

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Combination Immunotherapy for p53-Mutant Cancers Exploiting DNA Damage Response Vulnerabilities

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Spatial transcriptomic analysis of the factors that influence CD8+ T cell infiltration into tumors.

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Metabolic Profile and PD-L1 Expression of MDSC in the Blood and Tumor of HNSCC Patients

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Targeting HSP70 Enhances Immunotherapy Efficacy in Triple-Negative Breast Cancer

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Suppression of Anti-Tumor Immune Responses by Regulatory CD8+ T cells

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Sucralose enhances the regulatory T cell (Tregs) functions in vitro

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Poster #: **54**

Piezo1 Deletion Paradoxically Enhances Cross Presentation by Tumor-Associated CD11b+ DCs

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IFN γ -mediated suppression of alternative NF- κ B prevents Treg migration to the tumor microenvironment

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Poster #: **56**

Lipids in ovarian cancer ascites impair T cell function by disrupting TCR dynamics

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Poster #: **57**

Mitochondrial metabolic enzymes in prostate tumors regulate immunosuppressive tumor microenvironment

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Poster #: **58**

Characterization of Monocyte Subsets and Their Response to Chemotherapy in Pancreatic Cancer

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Poster #: **59**

Tumor-specific stem-like prog Tex subsets diverge into terminally Tex and long-lived memory T cells

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Deubiquitinase USP10 regulates the STAT3 signaling in a subset of lung cancer

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Patient-Derived Organoids as a Novel Alternative Model to Study Head and Neck Cancer Drug Response

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Identifying the Antigenic Drivers of Tertiary Lymphoid Structure Formation in Solid Cancers

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RUNX1 Rearrangements in Triple-Negative Breast Cancer: Insights into Immune Evasion and Resistance

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An Investigation of Treg Transcriptional Profiles in a B16F10 Melanoma Model

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D2 Receptor Signaling Influences Immune Checkpoint Blockade Efficacy in a Melanoma Mouse Model

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Non-canonical stem cell memory T cells with effector properties express CD45RO in human cancer

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Use of hypomethylating agents to reprogram the epigenome in large granular lymphocyte leukemia

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B cell Receptor Repertoire Diversity Across Pediatric Brain Tumors

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Ruthenium-BODIPY photodynamic therapy for inducing immunogenic cell death and anti-tumor immunity

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The Role of CDK5 in Medulloblastoma: Regulation of PD-L1 and MHC expression

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Effects of glutaminase and autophagy inhibitors on acute myeloid leukemia cell lines

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Control of Breast Cancer Dormancy Reawakening by p38MAPK and HBP1

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Strategies that boost transferred T cells via CARs vs. TCRs lead to distinct therapeutic outcomes

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Genomics in Diversity Outbred Mice Identifies Hmgb2 as a Candidate Regulator of Response to ICIs

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GLUT5 Potentiates CAR-T Cell Metabolism and Anti-tumour Functionality

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Uric Acid Sequestration of Iron is the Primary Driver of XOR Downregulation in Breast Cancer

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Engineered MAIT cells empowers durable CAR-T therapy for solid tumor

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Oncostatin-M Ligand-Based CAR-T Therapy Targets and Eliminates Osteosarcoma

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Adapting tumor infiltrating lymphocyte therapy for the treatment of solid tumors in canines

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AMPK enhances CAR-T function through increased oxidative capacity and improved cellular ROS control

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Beyond Covalency, How Reversible Reprogramming Shapes Universal T-cell Function

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Cracking the Code of Nuclear Rigidity: New Frontiers in Cell Migration and Therapy

Yerbol Tagay, Alexis Manning, Chynna Smith, Rakesh K. Singh, Sami Alawadhi, Dimitrios Vavylonis, Alexander S. Zhovmer, Denis Tsygankov, Alexander X. Cartagena-Rivera, Erdem D. Tabdanov
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Nociceptors as Crucial Drivers of Immune Evasion in Glioblastoma

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Impact of ICB plus chemotherapy on CD8+ TIL from resectable lung cancers

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Assessing the relative and synergistic contributions of PD1 and LAG3 on CD4+ T cells in cancer

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IFN α 2b and TLR-3 Agonist Therapy Sensitizes “Cold” Tumors for PD-1 Blockade

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Dual CD40 and TLR agonism improves immune surveillance in glioblastoma

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The influence of androgens on T cell responses in pancreatic ductal adenocarcinoma

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Investigating the impact of β -adrenergic signaling on CD8 T cell CD28 co-stimulatory signaling

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Enhancing aspartate production improves the persistence of engineered T cells in pancreatic cancer

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Role of T cells in the anti-tumor activity of RAS(ON) multi-selective inhibition in preclinical PDAC

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Effects of Catecholamines on Early B Cell Development

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Uncovering Mechanisms of Tumor-Infiltrating Lymphocyte Glycolysis and Enolase Activity Defects

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Genomic and Immunophenotypic Insights into Epstein-Barr Virus for Targeted Vaccine Development

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Spatiotemporal Modeling of the HNSCC Tumor Microenvironment

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A Unified Framework for Immunosuppressive Myeloid Programs in Brain Tumors

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T Cell States and Epitope Density as Determinants of the Immunogenicity of Neoantigen Vaccines

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Hypoxia induces altered surface sialylation in melanoma and NSCLC

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Investigation into the Immune Microenvironments of Non-Malignant CNS Pathologies

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Reprogramming cellular identity within tissue microniches via in silico spatial perturb-seq

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Untangling the Paradoxical Immune Sensitivity of Sarcomatoid Renal Cell Carcinoma

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CD28-stimulated replication dependent histone mRNA biogenesis directs CD4 T cell differentiation

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Arginine Dependent Immunometabolic Regulation by PFKFB4 Enzyme Alters CD8+ T Cell Response

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Uncovering myeloid fate in irradiated human renal cell carcinoma

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Dual Role of Minnelide Targeting TNBC Cancer Stem Cells and Reprogramming the Tumor Microenvironment

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Evaluation of the impact of Syk inhibition in the tumor immune microenvironment of OvCa

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Commensal dysbiosis reprograms mammary tissue mast cells to promote HR+ breast cancer metastasis

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TME-modulated sialylation impacts antibody-dependent cell phagocytosis in macrophages

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Natural killer cells display unique, non-cytotoxic profiles in human endometrial cancer

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Evaluating different Radiopharmaceuticals to Enhance Immunotherapy in Preclinical Brain Tumors

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Osteosarcoma Utilizes VCAM1-VLA4 Signaling Axis on Macrophages to Promote Pulmonary Metastasis

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TGFβ suppresses reticular fibroblast differentiation in pancreatic cancer

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PARP Inhibitors Boost Antitumor Effects of ADAR1 Inhibition Regardless of BRCA1 Status

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PTEN expression in T cell leukemia increases radiation cell death in vitro not survival in vivo.

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Collagen receptor LAIR-1 down modulates anti-glioma immunity

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Decreased metastatic burden in a spontaneous metastatic melanoma model by inhibiting MDSC function

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Autophagy inhibition in PDAC patients modulates TLS activity and B cell function

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Ferroptosis-Driven Immune Response in Glioblastoma

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Microbiome in oral cavity squamous cell carcinoma patients with a history of oral lichen planus

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RORyt supports peripherally induced regulatory T cell function and tumor growth outside the gut

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The Role of Chromatin Damage in Initiating Innate Immune Responses in Melanoma Cancer

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B cell responses in Merkel cell carcinoma patients are predictive of disease progression.

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Heterogeneity in the Cell Cycle: An Examination of Cell Cycle Regulators in Bladder Cancer

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Inhibition of Endogenous TGF-beta Signaling Enhances Dendritic Cell Effector Function

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Directed evolution-based discovery of ligands for in vivo restimulation of CAR-T cells

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A Barcode-Based Screening Approach to Identify Genes that Enhance Anti-Tumor Efficacy

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Functional Screening For A Novel CAR scFv Targeting Mesothelin

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"Instant" Antigen Specific Killer T cells by Arming of Fresh PBMC with Bispecific Antibody

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The Impact of Prior Chemotherapy Exposure on CAR T Cell Efficacy

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CAR T Cells with Sustained Antigen-Specific Gene Expression via a Synthetic Feedforward Circuit

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Engineering synthetic intercellular feedback to augment adoptive T cell therapy

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Development of Bifunctional Covalent Nanobody Adapters for Universal T cell Immunotherapy

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Development of in vivo CRISPR screening to uncover novel targets of tumor-infiltrating Treg cells

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MDSCs and Immune-Related Adverse Events in Early-Stage TNBC with Neoadjuvant Chemo-Immunotherapy

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Investigating the Effect of Focused Ultrasound Sound on Tumor-Associated Macrophages

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A Promising New Strategy in Mitigating On-Target, Off-Tumor Toxicities: Single-Vector synNotch

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Myeloperoxidase limits tumor-associated neutrophils mediated immunosuppression in pancreatic cancer.

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Modulating Nucleotide Metabolism in Alveolar Macrophages to Enhance their Anti-Metastatic Activity

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Tumor microenvironmental cues promote the generation of phenotypically distinct memory B cells

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Dynamic Changes in Regulatory CD8+ T cells along with anti-tumor immune responses

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LILRB4 as a Regulator of Tumor Growth and Immune Response in HER2/neu Breast Cancer

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CD200 signaling axis enhances the immunosuppressive function of myeloid cells in pancreatic cancer

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Exploring 3D chromatin topology in regulation of T cell exhaustion

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BTX-A51 potentiates antitumor T cell memory against acute myeloid leukemia in preclinical models

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Hindering MDSCs to Boost Chemo-Immunotherapy Responses in Models of Triple-Negative Breast Cancer

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PARP7 Inhibition Augments PBMC Medicated Cytotoxicity Against Prostate Cancer: A New Treatment

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Therapeutic Induction of Tertiary Lymphoid Structures via Vaccinia virus in Lung Cancer

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Combination of Anti-LAG3 and Anti-PD1 Modulates Intratumoral CD4+ Tregs in Melanoma and HNSCC

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A novel six-color FluoroSpot assay to assess tumor-specific B cell responses

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SBRT/IL-12 Combination Therapy Reinvigorates T Cell-Mediated Anti-Tumor Immunity in PDAC

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Targeting Tumor-Associated Macrophages to Restore EBV Lymphoma-Specific Immunity

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Cancer Immunotherapy: Anti-CA 19-9 Vaccine for Targeting CA 19-9 Positive Cancers

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A Novel Hybrid Biological-Biomaterial Vector for Gene Delivery and Human Dendritic Cell Maturation

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Investigation of memory CD8 T cell induced by the tumor cognate MHC-restricted helper peptide

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Uncovering mechanisms which control the infiltration of regulatory T (Treg) cells into the tumor.

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Profiling Cell-Surface Proteome Changes in Tumor-Infiltrating T Cells During Tumor Progression

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High-Throughput Preclinical Testing for Glioblastoma Immunotherapies

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Avelumab Induces Fc-FcR-dependent NK Cell Activation and DC Crosstalk in Comparison to Durvalumab

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Type 2 Immune Response and Fibrosis Crosstalk in Air Pollutant- Mediated Lung Cancer

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Targeting the Immunosuppressive Myeloid Tumor Microenvironment in Glioblastoma

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Unraveling the regulation of pro-inflammatory human Tregs within the tumor microenvironment

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Gut-commensal dysbiosis enhances breast cancer metastasis through a mast-cell dependent axis

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Dysbiosis-induced metabolic dysregulation drives mammary gland inflammation and metastasis

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Suppression of Ezh2-mediated histone methylation rescues the function of exhausted CD8 T cells

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Blockade of p38 reverses the immune suppressive tumor microenvironment in metastatic breast cancer

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