Title Journal Rosa Alves Martins Immunotherapy Advances Therapeutic targeting of tumour-associated macrophage receptors https://doi.org/10.1093/immadv/ltaf009 https://doi.org/10.1186/s12989-024-00617-2 James Parkin, Liam Edgeway Particle and Fibre Toxicology Copper-enriched automotive brake wear particles perturb human alveolar cellular homeostasis Thaneswari Karpanasamy Trends inCancer Cancer evolution: from Darwin to the Extended Evolutionary Synthesis https://doi.org/10.1016/i.trecan.2025.01.001 https://doi.org/10.3390/nu16234175 Ester Valero Hernandez Nutrients Omega-3 Fatty Acids and Traumatic Injury in the Adult and Immature Brain Christos Ermogenous Cancer Research (Suppl.) Abstract B022: Investigating how monocytes impair NK cell cytotoxicity in lung metastasis of triple-negative breast cancer https://doi.org/10.1158/1538-7445.TUMBODY-B022 Abstract C045: The extracellular matrix glycoprotein periostin supports chemotherapy resistance by modulating macrophage recruitment and phagocytosis in triple https://doi.org/10.1158/1538-7445.TUMBODY-C045 Ludovica Tarantola Cancer Research (Suppl.) Liam Edgeway European Respiratory Journal (Suppl.) The effect of air pollution on the antiviral immune response in pulmonary fibrosis [conference abstract] https://doi.org/10.1183/13993003.congress-2024.PA4453 Jack Fisher Frontiers in Oncology KIR2DS2+ NK cells in cancer patients demonstrate high activation in response to tumour-targeting antibodies https://doi.org/10.3389/fonc.2024.1404051 Emily O'Sullivan The paradox of senescent-marker positivecancer cells: challenges and opportunities https://doi.org/10.1038/s41514-024-00168-y npj aging Luise Carr, Anna Nilsson-Takeuchi British Journal of Haematology Telomere length and DNA methylation epitype both provide independent prognostic information in CLL patients; data from the UK CLL4, ARCTIC and ADMIRE clinica https://doi.org/10.1111/bjh.19765 Spatial transcriptomic validation of a biomimetic model of fibrosis enables re-evaluation of a therapeutic antibody targeting LOXL2 Lucy Saver Cell Reports, Medicine https://doi.org/10.1016/j.xcrm.2024.101695 Sophie Skingsley Cell Reports Loss of POLE3-POLE4 unleashes replicative gap accumulation upon treatment with PARP inhibitors https://doi.org/10.1016/j.celrep.2024.114205 Kiran Dontamsetti Sensing of luminal contents and downstream modulation of GI function https://doi.org/10.1002/igh3.13083 JGH Open https://doi.org/10.1038/s41588-024-01742-6 Molly Guscott **Nature Genetics** Experimental evolution of cancer chromosomal changes In: Siciliano, V., Ceroni, F. 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https://doi.org/10.1038/s41375-023-01984-z https://doi.org/10.1038/s41571-023-00781-y Caitlin Davies Nature Reviews Clinical Oncology Circulating tumour cells for early detection of clinically relevant cancer Impaired expression of metallothioneins contributes to allergen-induced inflammation in patients with atopic dermatitis Kalum Clayton **Nature Communications** http://dx.doi.org/10.1038/s41467-023-38588-1 Nicolas I Roth Journal of Biological Chemistry The Batten disease protein CLN3 is important for stress granules dynamics and translational activity https://doi.org/10.1016/j.jbc.2023.104649 Frontiers in Immunology Towards a better understanding of human iNKT cell subpopulations for improved clinical outcomes https://doi.org/10.3389/fimmu.2023.1176724 Alex Look Sarah Johnson, Molly Guscott The EMBO Journal Targeted assembly of ectopic kinetochores to induce chromosome-specific segmental aneuploidies https://doi.org/10.15252/embj.2022111587 Ottilie Swinyard Cancer Prevention Research Biology of Precancers and Opportunities for Cancer Interception: Lesson from Colorectal Cancer Susceptibility Syndromes https://doi.org/10.1158/1940-6207.CAPR-22-0500 Henry Gerdes The Biochemical Journal Principles of phosphoproteomics and applications in cancer research https://doi.org/10.1042/bcj20220220 https://doi.org/10.7554/eLife.86971 Nicolas J Roth eLife Purinergic GPCR-integrin interactions drive pancreatic cancer cell invasion Elena Tomás-Bort **NPJ Breast Cancer** TGFβ-mediated MMP13 secretion drives myoepithelial cell dependent breast cancer progression https://doi.org/10.1038%2Fs41523-023-00513-6 https://doi.org/10.1093/bjd/ljac088 The British Journal of Dermatology Skin programming of inflammatory responses to Staphylococcus aureus is compartmentalized according to epidermal keratinocyte differentiation status Kalum Clayton https://doi.org/10.3389/fonc.2022.1060864 Caitlin Davies Frontiers in Oncology The potential of using circulating tumour cells and their gene expression to predict docetaxel response in metastatic prostate cancer Jack Fisher Vaccines Disruption of the NKG2A:HLA-E Immune Checkpoint Axis to Enhance NK Cell Activation against Cancer https://doi.org/10.3390/vaccines10121993 Anna Willis, Chiara Banas Viruses IL-33 Induces an Antiviral Signature in Mast Cells but Enhances Their Permissiveness for Human Rhinovirus Infection https://doi.org/10.3390/v14112430 https://doi.org/10.1530%2FEC-22-0338 Dillon Popat **Endocrine Connections** Identification of a novel specific small-molecule melanocortin-2-receptor antagonist Sarah Johnson Genome Biology Replication stress generates distinctive landscapes of DNA copy number alterations and chromosome scale losses https://doi.org/10.1186/s13059-022-02781-0 the international journal of biochemistry and cell biology Molly Guscott , Akash Saha , Jovanna Maharaj The multifaceted role of micronuclei in tumour progression: A whole organism perspective https://doi.org/10.1016/j.biocel.2022.106300 Transcriptional programming of immunoregulatory responses in human Langerhans cells https://doi.org/10.3389/fimmu.2022.892254 James Davies, Kalum Clayton Frontiers in Immunology Robert Hearnden **Endocrine-related Cancer** The immune cell infiltrate in the tumour microenvironment of phaeochromocytomas and paragangliomas https://doi.org/10.1530/erc-22-0020 https://doi.org/10.1016/j.devcel.2022.07.015 Developmental Cell Tim Muntslag The spatiotemporal dynamics of microglia across the human lifespan Frontiers in Cell and Developmental Biology Ligand-bound integrin αvβ6 internalisation and trafficking https://doi.org/10.3389/fcell.2022.920303 Lauren Cutmore The Journal of Immunology KIR2DS2 Expression Identifies NK Cells With Enhanced Anticancer Activity https://doi.org/10.4049/iimmunol.2101139 Jack Fisher Multi-Scale Analysis of the Composition, Structure, and Function of Decellularized Extracellular Matrix for Human Skin and Wound Healing Models https://doi.org/10.3390/biom12060837 Atiya Sarmin Biomolecules Loss of T cell tolerance in the skin following immunopathology is linked to failed restoration of the dermal niche by recruited macrophages https://doi.org/10.1016/j.celrep.2022.110819 James Davies Cell Reports The International Journal of Biochemistry & Cell Biology Michaela JM Balderstone Roles of Syndecan-4 in cardiac injury and repair https://doi.org/10.1016/j.biocel.2022.106196 Kri Müller Journal of experimental & clinical cancer research HIF activation enhances FcyRIIb expression on mononuclear phagocytes impeding tumor targeting antibody immunotherapy https://doi.org/10.1186%2Fs13046-022-02294-5 Nicolas J Roth Detection of cannabinoid receptor type 2 in native cells and zebrafish with a highly potent, cell-permeable fluorescent probe https://doi.org/10.1039/d1sc06659e Chemical Science Joe Taylor, Annabel R Minton Cellular Signalling B-cell receptor signaling induces proteasomal degradation of PDCD4 via MEK1/2 and mTORC1 in malignant B cells https://doi.org/10.1016/j.cellsig.2022.110311 Agonistic CD27 antibody potency is determined by epitope-dependent receptor clustering augmented through Fc-engineering https://doi.org/10.1038/s42003-022-03182-6 Franziska Heckel Communications Biology Fabrication of Human Skin Equivalents Using Decellularized Extracellular Matrix https://doi.org/10.1002/cpz1.393 Atiya Sarmin **Current Protocols** Annabel R Minton Exploration of Targeted Anti-tumor Therapy B-cell receptor dependent phagocytosis and presentation of particulate antigen by chronic lymphocytic leukemia cells https://doi.org/10.37349/etat.2022.00070 Emily A O'Sullivan Carvedilol targets β-arrestins to rewire innate immunity and improve oncolytic adenoviral therapy https://doi.org/10.1038/s42003-022-03041-4 Communications Biology Elena Tomás-Bort The FEBS Journal FGF signalling facilitates cervical cancer progression https://doi.org/10.1111/febs.16331 Implementation of Clinical Phosphoproteomics and Proteomics for Personalized Medicine **Henry Gerdes** Clinical Proteomics https://doi.org/10.1007/978-1-0716-1936-0 8 The Role of Extracellular Vesicles as a Shared Disease Mechanism Contributing to Multimorbidity in Patients With COPD Laura Reid Frontiers in Immunology https://doi.org/10.3389/fimmu.2021.754004 Jack Fisher Frontiers in Oncology Selinexor Enhances NK Cell Activation Against Malignant B Cells via Downregulation of HLA-E https://doi.org/10.3389/fonc.2021.785635 https://doi.org/10.1183%2F23120541.00320-2021 Jana Hueppe ERJ Open Research Lower airway clinical outcome measures for use in primary ciliary dyskinesia research: a scoping review Elena Tomás-Bort Cancers (Basel) Stromal Cells Promote Matrix Deposition, Remodelling and an Immunosuppressive Tumour Microenvironment in a 3D Model of Colon Cancer https://doi.org/10.3390/cancers13235998 Jacqui Nimmo Acta Neuropathologica Immunisation with UB-312 in the Thy1SNCA mouse prevents motor performance deficits and oligomeric α-synuclein accumulation in the brain and gut https://doi.org/10.1007/s00401-021-02381-5 https://doi.org/10.3390/biom11101503 Quantitative Super-Resolution Imaging for the Analysis of GPCR Oligomerization Elena Tomás-Bort Biomolecules Frontiers in Neuroscience Amyloid- β and α -Synuclein Immunotherapy: From Experimental Studies to Clinical Trials https://doi.org/10.3389/fnins.2021.733857 Jacqui Nimmo Targeted inhibition of eIF4A suppresses B-cell receptor-induced translation and expression of MYC and MCL1 in chronic lymphocytic leukemia cells Cellular and Molecular Life Sciences https://doi.org/10.1007%2Fs00018-021-03910-x Joe Taylor https://doi.org/10.3390/cancers13163969 Kallikrein-Related Peptidase 6 Is Associated with the Tumour Microenvironment of Pancreatic Ductal Adenocarcinoma Elena Tomás-Bort Cancers (Basel) https://doi.org/10.1042/bio 2021 152 Cinderella Short The Biochemist Doggybones, DNA vaccines and skin-penetrating fluids; whatever it takes to win the fight against cancer Stephen Murtough Cell and Tissue Research Early inflammation precedes cardiac fibrosis and heart failure in desmoglein 2 murine model of arrhythmogenic cardiomyopathy https://doi.org/10.1007/s00441-021-03488-7 James Davies, Kalum Clayton Frontiers in Immunology An IRF1-IRF4 Toggle-Switch Controls Tolerogenic and Immunogenic Transcriptional Programming in Human Langerhans Cells https://doi.org/10.3389/fimmu.2021.665312 Replicative senescence dictates the emergence of disease-associated microglia and contributes to $A\beta$ pathology https://doi.org/10.1016/j.celrep.2021.109228 Tim Muntslag Cell Reports Joe Taylor Scientific Reports DC-SIGN binding to mannosylated B-cell receptors in follicular lymphoma down-modulates receptor signaling capacity https://doi.org/10.1038/s41598-021-91112-7 Sara Ferri Ultrasound in medicine & biology Investigation of the Acoustic Vaporization Threshold of Lipid-Coated Perfluorobutane Nanodroplets Using Both High-Speed Optical Imaging and Acoustic Methods https://doi.org/10.1016/j.ultrasmedbio.2021.02.019 Nicolas J Roth Structure reveals the activation mechanism of the MC4 receptor to initiate satiation signaling https://doi.org/10.1126/science.abf7958 Journal of Crohn's and colitis Ileal Transcriptomic Analysis in Paediatric Crohn's Disease Reveals IL17- and NOD-signalling Expression Signatures in Treatment-naïve Patients and Identifies Epitheli: https://doi.org/10.1093/ecco-jcc/jjaa236 James Davies The British Journal of Dermatology Machine learning applied to atopic dermatitis transcriptome reveals distinct therapy-dependent modification of the keratinocyte immunophenotype https://doi.org/10.1111/bjd.19431 Kalum Clayton

Lauren Cutmore Cancers Elena Tomás-Bort Cells

Caitlin Davies

STAR protocols Robert Hearnden **Nature Communications** Henry Gerdes

Stephen Murtough Journal of Investigative Dermatology Sara Ferri Ultrasonics Sonochemistry

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Joe Taylor Exploration of Targeted Anti-tumor Therapy Jacqui Nimmo International Journal of molecular sciences

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Annabel R Minton Leukemia Sarah Johnson Nature

Sarah Johnson Molecular Cytogenetics Minal B Patel High-Throughput

Sarah Johnson Science Signaling Kalum Clayton Frontiers in Immunology Kalum Clayton Am J Respir Crit Care Med

Minal B Patel **PLoS Medicine** Current Perspectives on the Use of off the Shelf CAR-T/NK Cells for the Treatment of Cancer

Dissecting FGF Signalling to Target Cellular Crosstalk in Pancreatic Cancer

Isolation of stromal vascular fraction cell suspensions from mouse and human adipose tissues for downstream applications

Drug ranking using machine learning systematically predicts the efficacy of anti-cancer drugs iRHOM2: A Regulator of Palmoplantar Biology, Inflammation, and Viral Susceptibility

Tailoring the size of ultrasound responsive lipid-shelled nanodroplets by varying production parameters and environmental conditions

Resolving cellular systems by ultra-sensitive and economical single-cell transcriptome filtering

The Identification of Plasma Exosomal miR-423-3p as a Potential Predictive Biomarker for Prostate Cancer Castration-Resistance Development by Plasma Exosomal r https://doi.org/10.3389/fcell.2020.602493

Novel antibodies detect additional α-synuclein pathology in synucleinopathies: potential development for immunotherapy

Inhibition of Mast Cell Degranulation by Surfactant Protein D

Development of High-Specificity Fluorescent Probes to Enable Cannabinoid Type 2 Receptor Studies in Living Cells

The breast cancer oncogene IKKs coordinates mitochondrial function and serine metabolism

LILRB3 (ILT5) is a myeloid cell checkpoint that elicits profound immunomodulation

Peri-arterial pathways for clearance of α-Synuclein and tau from the brain: Implications for the pathogenesis of dementias and for immunotherapy

Metabolic Fingerprinting Links Oncogenic PIK3CA with Enhanced Arachidonic Acid-Derived Eicosanoids

Pancreatic Cancer UK Grand Challenge: Developments and challenges for effective CAR T cell therapy for pancreatic ductal adenocarcinoma

3D approaches to model the tumor microenvironment of pancreatic cancer

Targeted inhibition of mRNA translation initiation factors as a novel therapeutic strategy for mature B-cell neoplasms

The Pattern of AQP4 Expression in the Ageing Human Brain and in Cerebral Amyloid Angiopathy

Clinical significance of TP53, BIRC3, ATM and MAPK-ERK genes in chronic lymphocytic leukaemia: data from the randomised UK LRF CLL4 trial

Genomic programming of IRF4-expressing human Langerhans cells

Syndecan-3 in Inflammation and Angiogenesis

Noninvasive Detection of Clinically Significant Prostate Cancer Using Circulating Tumor Cells

BCR signaling contributes to autophagy regulation in chronic lymphocytic leukemia

Watching cancer cells evolve through chromosomal instability

The emerging links between chromosomal instability (CIN), metastasis, inflammation and tumour immunity

The Identification and Interpretation of cis-Regulatory Noncoding Mutations in Cancer

IL-33 and ST2 mediate FAK-dependent antitumor immune evasion through transcriptional networks

Langerhans Cells-Programmed by the Epidermis

Gene Expression Signatures in Tuberculosis Have Greater Overlap with Autoimmune Diseases Than with Infectious Diseases

Signatures of inflammation and impending multiple organ dysfunction in the hyperacute phase of trauma: A prospective cohort study

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