(gene therapy) OR (cell therapy)

	NCT Number	Title	Authors	Description	Identifier	Dates
1	pubmed:36113170	Evaluation of neurotrophic factor secreting mesenchymal stem cells in progressive multiple sclerosis	Jeffrey A Cohen Fred D Lublin Christoper Lock Daniel Pelletier Tanuja Chitnis Munish Mehra Yael Gothelf Revital Aricha Stacy Lindborg Chaim Lebovits Yossef Levy Afsaneh Motamed Khorasani Ralph Kern	CONCLUSION: Based on these encouraging preliminary findings, further confirmation in a randomized study is warranted.	pmid:36113170 doi:10.1177/13524585221122156	Fri, 16 Sep 2022 06:00:00 -0400
2	pubmed:36113182	Inhibiting S100A8/A9 attenuates airway obstruction in a mouse model of heterotopic tracheal transplantation	Dai Shimizu Mikio Okazaki Seiichiro Sugimoto Rie Kinoshita Kentaro Nakata Shin Tanaka Kohei Hashimoto Kentaroh Miyoshi Masaomi Yamane Akihiro Matsukawa Masakiyo Sakaguchi Shinichi Toyooka	Although bronchiolitis obliterans syndrome (BOS) is a major cause of death after lung transplantation, an effective drug therapy for BOS has not yet developed. Here, we assessed the effectiveness of a neutralizing anti-S100 calcium binding protein (S100) A8/A9 antibody against BOS. A murine model of heterotopic tracheal transplantation was used. Mice were intraperitoneally administered control IgG or the S100A8/A9 antibody on day 0 and twice per week until they were sacrificed. Tissue sections...	pmid:36113182 doi:10.1016/j.bbrc.2022.08.087	Fri, 16 Sep 2022 06:00:00 -0400
3	pubmed:36113267	Bortezomib-resistant multiple myeloma patient-derived xenograft is sensitive to anti-CD47 therapy	Yanhua Yue Yang Cao Fei Wang Naidong Zhang Ziwei Qi Xunyuan Mao Shuxin Guo Feng Li Yanting Guo Yan Lin Weimin Dong Yuhui Huang Weiying Gu	Multiple myeloma (MM) remains an incurable hematologic malignancy due to its frequent drug resistance and relapse. Cluster of Differentiation 47 (CD47) is reported to be highly expressed on MM cells, suggesting that the blockade of CD47 signaling pathway could be a potential therapeutic candidate for MM. In this study, we developed a bortezomib-resistant myeloma patient-derived xenograft (PDX) from an extramedullary pleural effusion myeloma patient sample. Notably, anti-CD47 antibody treatments...	pmid:36113267 doi:10.1016/j.leukres.2022.106949	Fri, 16 Sep 2022 06:00:00 -0400
4	pubmed:36113285	Suburethral implantation of autologous regenerative cells for female stress urinary incontinence management: Results of a pilot study	Anne Maene Gulcan Deniz Cyril Bouland Laurence Lagneaux Pierre Philippart Fréderic Buxant	CONCLUSION: These preliminary results suggest that the suburethral implantation of a combination of SVF and l-PRF is a feasible and safe modality for treating female SUI. However, evidence is lacking and further research are needed to clarify the respective roles of SVF and l-PRF in female SUI treatment.	pmid:36113285 doi:10.1016/j.ejogrb.2022.08.028	Fri, 16 Sep 2022 06:00:00 -0400
5	pubmed:36113318	Research progress of neoantigens in gynecologic cancers	Yuli Song Yi Zhang	The incidence and mortality of gynecological cancers have increased over the past decade. In the absence of effective treatment strategies, many advanced patients develop resistance to conventional therapies and have poor prognosis. Neoantigens have emerged as a novel tumor-specific antigen (TSA) that arises from genomic mutations in tumor cells. With higher immunogenicity than tumor-associated antigens (TAA), they have no risk of developing autoimmune response, leading them an attractive...	pmid:36113318 doi:10.1016/j.intimp.2022.109236	Fri, 16 Sep 2022 06:00:00 -0400

	NCT Number	Title	Authors	Description	Identifier	Dates
6	pubmed:36113403	Ferroptosis execution: Is it all about ACSL4?	Hyemin Lee Boyi Gan	ACSL4 is generally considered to be universally required for ferroptosis, a form of cell death induced by phospholipid peroxidation. In this issue of Cell Chemical Biology, Magtanong et al. (2022) report the surprising finding that ACSL4 is only required for ferroptosis in certain circumstances, raising interesting questions about the regulation of this cell death pathway.	pmid:36113403 doi:10.1016/j.chembiol.2022.08.002	Fri, 16 Sep 2022 06:00:00 -0400
7	pubmed:36113478	Cancer cell autophagy, reprogrammed macrophages, and remodeled vasculature in glioblastoma triggers tumor immunity	Agnieszka Chryplewicz Julie Scotton Mélanie Tichet Anoek Zomer Ksenya Shchors Johanna A Joyce Krisztian Homicsko Douglas Hanahan	Glioblastoma (GBM) is poorly responsive to therapy and invariably lethal. One conceivable strategy to circumvent this intractability is to co-target distinctive mechanistic components of the disease, aiming to concomitantly disrupt multiple capabilities required for tumor progression and therapeutic resistance. We assessed this concept by combining vascular endothelial growth factor (VEGF) pathway inhibitors that remodel the tumor vasculature with the tricyclic antidepressant imipramine, which...	pmid:36113478 doi:10.1016/j.ccell.2022.08.014	Fri, 16 Sep 2022 06:00:00 -0400
8	pubmed:36113555	Dystrophin restoration after AAV-U7-mediated dmd exon-skipping is modulated by muscular exercise in the severe D2-mdx DMD murine model	Alexandra Monceau Dylan Moutachi Mégane Lemaitre Luis Garcia Capucine Trollet Denis Furling Arnaud Klein Arnaud Ferry	Duchenne muscular dystrophy (DMD) is a severe neuromuscular disease caused by Dmd mutations resulting in the absence of dystrophin in skeletal muscle, with a greater susceptibility to damage during contraction (exercise). In this study, we evaluated whether voluntary exercise impacts a Dmd exon skipping approach and muscle physiology in a severe DMD murine model. We intramuscularly injected an AAV-U7snRNA that aimed to correct Dmd reading frame in D2-mdx mice and they voluntary ran in a wheel...	pmid:36113555 doi:10.1016/j.ajpath.2022.07.016	Fri, 16 Sep 2022 06:00:00 -0400
9	pubmed:36113627	Insights into the multi-faceted role of Pioneer transcription factors in glioma formation and progression with targeting options	Angeliki-Ioanna Giannopoulou Dimitrios S Kanakoglou Athanasios G Papavassiliou Christina Piperi	Pioneer transcription factors (TFs) present an important subtype of transcription factors which are vital for cell programming during embryonic development and cellular memory during mitotic growth, as well as cell fate reprogramming. Pioneer TFs can engage specific target binding sites on nucleosomal DNA to attract chromatin remodeling complexes, cofactors, and other transcription factors, ultimately controlling gene expression by shaping locally the epigenome. The priority of binding that they...	pmid:36113627 doi:10.1016/j.bbcan.2022.188801	Fri, 16 Sep 2022 06:00:00 -0400
10	pubmed:36113684	Kounis syndrome following an anaphylactic reaction to antivenom in a patient with Russell's viper (Daboia russelii) bite: A case report	Supun Wedasingha Chamara Sarathchandra Prasanna Weerawansa Thilina Rathnasekara Suneth Karunarathna Geoffrey K Isbister Anjana Silva	Kounis syndrome is the occurrence of acute coronary syndrome associated with mast cell and platelet activation in the setting of allergic or anaphylactic insults. Kounis syndrome has been previously reported following snake envenoming rarely, with or without antivenom therapy. We report a case of inferolateral ST elevation myocardial infarction 32 hours from a confirmed Russell's viper bite. He also had an anaphylactic reaction soon after antivenom. The absence of underlying atheromatous...	pmid:36113684 doi:10.1016/j.toxicon.2022.09.006	Fri, 16 Sep 2022 06:00:00 -0400

	NCT Number	Title	Authors	Description	Identifier	Dates
11	pubmed:36113724	Size-tunable lipid vectors for controlled local delivery of siRNA from gene activated matrix	Jeremy Salvador Jade Berthelot Claire Bony Baptiste Robin Josephine Lai Kee Him Danièle Noël Emmanuel Belamie Marie Morille	Tissue engineering aims to restore or replace different types of biological tissues through the association of cells, biologic factors and biomaterials. Currently, stem cells arise as a major cell source for many therapeutic indications, and their association with 3D scaffolds allow increasing regenerative medicine efficiency. In this context, the use of RNA interference to enhance or control stem cell differentiation into the desired phenotype appears as a promising strategy. However, achieving...	pmid:36113724 doi:10.1016/j.actbio.2022.09.016	Fri, 16 Sep 2022 06:00:00 -0400
12	pubmed:36113726	Exosome Transportation-mediated Immunosuppression Relief through Cascade Amplification for Enhanced Apoptotic Body Vaccination	Gaoqian Zhao Huifang Liu Zhaoshuo Wang Hua Yang Huiqing Zhao Yixin Zhang Kun Ge Xueyi Wang Li Luo Xiaohan Zhou Jinchao Zhang Zhenhua Li	Cancer vaccines represent the most promising strategies in the battle against cancers. Eliciting a robust therapeutic effect with vaccines, however, remains a challenge owing to the weak immunogenicity of autologous tumor antigens and highly immunosuppressive microenvironment. In the present study, we constructed CpG oligodeoxyribonucleotide (CpG ODN)-loaded cancer cell apoptotic bodies (Abs) as cancer vaccines for enhanced immunotherapy through cascade amplification-mediated immunosuppression...	pmid:36113726 doi:10.1016/j.actbio.2022.09.014	Fri, 16 Sep 2022 06:00:00 -0400
13	pubmed:36113731	sA significantly non-toxic novel cobalt(III) Schiff base complex induces apoptosis via G2-M cell cycle arrest in human breast cancer cell line MCF-7	Sanchari Dasgupta Kanisha Kar Atish Barua Diya Ghosh Bikash Kabi Koushik Dewan Arpita Chandra	AIMS: Metal complexes have ignited considerable interest in the field of chemotherapy after the serendipitous discovery of cisplatin but the severe toxicity of these platinum-based drugs compelled researchers to search for newer, more effective lesser toxic anticancer drugs.	pmid:36113731 doi:10.1016/j.lfs.2022.120963	Fri, 16 Sep 2022 06:00:00 -0400
14	pubmed:36113779	A phase II trial of hypofractionated high-dose proton beam therapy for unresectable liver metastases	Kangpyo Kim Jeong Il Yu Hee Chul Park Gyu Sang Yoo Do Hoon Lim Jae Myung Noh Woo Kyoung Jeong	CONCLUSIONS: Hypofractionated PBT with a BED >100 GyRBE for liver metastasis is safe and effective, given the high rate of 6-month FFLP without grade 3 treatment-related toxicities. However, further improvements are required for larger tumors and/or those without prior systemic therapy.	pmid:36113779 doi:10.1016/j.radonc.2022.09.003	Fri, 16 Sep 2022 06:00:00 -0400
15	pubmed:36113849	Site-specific Polyplex on CCR7 Down-regulation and T cell Elevation for Lymphatic Metastasis Blocking on Breast Cancer	Yueyang Deng Caixia Tan Shuguang Huang Honghao Sun Zhaoting Li Jing Li Zhanwei Zhou Minjie Sun	Tumor metastasis contributes to high cancer mortality. Tumor cells in lymph nodes (LNs) are difficult to eliminate but underlie uncontrollable systemic metastasis. The CC chemokine receptor 7 (CCR7) is overexpressed in tumor cells and interacts with CC chemokine ligand 21 (CCL21) secreted from LNs, potentiating their lymphatic migration. Here, a site-specific polyplex was developed to block the CCR7-CCL21 signal and kill tumor cells toward LNs, greatly limiting their lymphatic infiltration. A...	pmid:36113849 doi:10.1002/adhm.202201166	Fri, 16 Sep 2022 06:00:00 -0400

	NCT Number	Title	Authors	Description	Identifier	Dates
16	pubmed:36113895	Intratumoral administration of CD1c (BDCA-1)$^{+}$ and CD141 (BDCA-3)$^{+}$ myeloid dendritic cells in combination with talimogene laherparepvec in immune checkpoint blockade refractory advanced melanoma patients: a phase I clinical trial	Julia Katharina Schwarze Jens Tijtgat Gil Awada Louise Cras Angela Vasaturo Christopher Bagnall Ramses Forsyth Inès Dufait Sandra Tuyaerts Ivan Van Riet Bart Neyns	CONCLUSIONS: IT coinjection of autologous CD1c (BDCA-1)^(+) +/- CD141 (BDCA-3)^(+) myDCs with T-VEC is feasible, tolerable and resulted in encouraging early signs of antitumor activity in immune checkpoint inhibitor-refractory melanoma patients.	pmid:36113895 doi:10.1136/jitc-2022-005141	Fri, 16 Sep 2022 06:00:00 -0400
17	pubmed:36113897	HSP90 induces immunosuppressive myeloid cells in melanoma via TLR4 signaling	Ihor Arkhypov Feyza Gül Özbay Kurt Rebekka Bitsch Daniel Novak Vera Petrova Samantha Lasser Thomas Hielscher Christopher Groth Alisa Lepper Xiaoying Hu Wei Li Jochen Utikal Peter Altevogt Viktor Umansky	CONCLUSION: Our findings demonstrated that soluble rHSP90 increased the resistance of normal human monocytes to apoptosis and converted them into immunosuppressive MDSC via TLR4 signaling that stimulated PD-L1 and IDO-1 expression. Furthermore, patients with melanoma with high concentrations of HSP90 displayed increased PD-L1 expression on M-MDSC and reduced PFS after ICI therapy, suggesting HSP90 as a promising therapeutic target for overcoming immunosuppression in melanoma.	pmid:36113897 doi:10.1136/jitc-2022-005551	Fri, 16 Sep 2022 06:00:00 -0400
18	pubmed:36114009	Extended vincristine and dexamethasone pulse therapy may not be necessary for children with TCF3-PBX1 positive acute lymphoblastic leukaemia	Yang Wan Honghong Zhang Li Zhang Jiaoyang Cai Jie Yu Shaoyan Hu Yongjun Fang Ju Gao Hua Jiang Minghua Yang Changda Liang Runming Jin Xin Tian Xiuli Ju Qun Hu Hui Jiang Hui Li Ningling Wang Lirong Sun Alex W K Leung Xuedong Wu Junxia Wang Chi-Kong Li Jun Yang Jingyan Tang Shuhong Shen Xiaowen Zhai Ching-Hon Pui Xiaofan Zhu	The effect of prolonged pulse therapy with vincristine and dexamethasone (VD) during maintenance therapy on the outcome of paediatric patients with TCF3-PBX1 positive acute lymphoblastic leukaemia (ALL) remains uncertain. We conducted non-inferiority analysis of 263 newly diagnosed TCF3-PBX1 positive ALL children who were stratified and randomly assigned (1:1) to receive seven additional VD pulses (the control group) or not (the experimental group) in the CCCG-ALL-2015 clinical trial from...	pmid:36114009 doi:10.1111/bjh.18437	Fri, 16 Sep 2022 06:00:00 -0400

	NCT Number	Title	Authors	Description	Identifier	Dates
19	pubmed:36114027	HER2 in Uterine Serous Carcinoma: Testing platforms and implications for targeted therapy	Tenley R Klc Sharon Wu Annelise M Wilhite Nathaniel L Jones Matthew A Powell Alex Olawaiye Eugenia Girda Jubilee Brown Allison Puechl Rouba Ali-Fehmi Ira S Winer Thomas J Herzog W Michael Korn Britt K Erickson	CONCLUSIONS: There was high concordance between HER2 positivity based on CISH and IHC. Rate of HER2 positivity is the lowest by NGS. Ultimately these testing platforms need to be validated by response to targeted therapy.	pmid:36114027 doi:10.1016/j.ygyno.2022.09.006	Fri, 16 Sep 2022 06:00:00 -0400
20	pubmed:36114091	GABAergic signaling beyond synapses: an emerging target for cancer therapy	De Huang Peter B Alexander Qi-Jing Li Xiao-Fan Wang	Traditionally, -aminobutyric acid (GABA) is best known for its role as a primary inhibitory neurotransmitter reducing neuronal excitability in the mammalian central nervous system (CNS), thereby producing calming effects. However, an emerging body of data now supports a function for GABA beyond neurotransmission as a potent factor regulating cancer cell growth and metastasis, as well as the antitumor immune response, by shaping the tumor microenvironment (TME). Here, we review the current...	pmid:36114091 doi:10.1016/j.tcb.2022.08.004	Fri, 16 Sep 2022 06:00:00 -0400
21	pubmed:36114118	Immediate adverse events to intravenous immunoglobulin in pediatric patients with inborn errors of immunity: A longitudinal study with a pre-infusion protocol	Thales Silva Antunes Karina Mescouto Melo Cláudia França Cavalcante Valente Fabíola Scancetti Tavares	CONCLUSION: The low frequency of immediate AEs in children with IEI highlights the safety and tolerability of intravenous immunoglobulin replacement with the procedures established at our center.	pmid:36114118 doi:10.1016/j.htct.2022.06.009	Fri, 16 Sep 2022 06:00:00 -0400
22	pubmed:36114167	Paraskeletal and extramedullary plasmacytomas in multiple myeloma at diagnosis and at first relapse: 50-years of experience from an academic institution	Raquel Jiménez-Segura Laura Rosiñol Ma Teresa Cibeira Carlos Fernández de Larrea Natalia Tovar Luis Gerardo Rodríguez-Lobato Esther Bladé David F Moreno Aina Oliver-Caldés Joan Bladé	From January 1970 to December 2018, 1304 patients were diagnosed with multiple myeloma (MM) at our institution and 256 (19.6%) had plasmacytomas (Ps) (paraskeletal -PPs- 17.6%, extramedullary -EMPs-1.9%). Patients with Ps had lower serum M-protein and less advanced ISS stage than those without. At first relapse, 192 out of 967 patients (19.8%) developed Ps (PPs 14.6%, EMPs 5.1%). The only factor associated with Ps at relapse was the presence of Ps at diagnosis (46% vs 13%, p	pmid:36114167 doi:10.1038/s41408-022-00730-5	Fri, 16 Sep 2022 06:00:00 -0400
23	pubmed:36114176	CAV2 promotes the invasion and metastasis of head and neck squamous cell carcinomas by regulating S100 proteins	Yafei Wang Yun Wang Ruoyan Liu Chunli Wang Yi Luo Liwei Chen Yuchao He Keyun Zhu Hua Guo Ze Zhang Jingtao Luo	More than half of HNSCC patients are diagnosed with advanced disease. Locally advanced HNSCC is characterized by tumors with marked local invasion and evidence of metastasis to regional lymph nodes. CAV2 is a major coat protein of caveolins, important components of the plasma membrane. In this study, CAV2 was found to profoundly promote invasion and stimulate metastasis in vivo and in vitro. CAV2 was demonstrated to be a key regulator of S100 protein expression that upregulates the proteins...	pmid:36114176 doi:10.1038/s41420-022-01176-1	Fri, 16 Sep 2022 06:00:00 -0400

	NCT Number	Title	Authors	Description	Identifier	Dates
24	pubmed:36114225	Chondrogenic primed extracellular vesicles activate miR-455/SOX11/FOXO axis for cartilage regeneration and osteoarthritis treatment	Ye Sun Jie Zhao Qiang Wu Yuxin Zhang Yongqing You Wenbo Jiang Kerong Dai	Osteoarthritis (OA) is the leading cause of disability worldwide. Considerable progress has been made using stem-cell-derived therapy. Increasing evidence has demonstrated that the therapeutic effects of BMSCs in chondrogenesis could be attributed to the secreted small extracellular vesicles (sEVs). Herein, we investigated the feasibility of applying engineered EVs with chondrogenic priming as a biomimetic tool in chondrogenesis. We demonstrated that EVs derived from TGF3-preconditioned BMSCs...	pmid:36114225 doi:10.1038/s41536-022-00250-7	Fri, 16 Sep 2022 06:00:00 -0400
25	pubmed:36114233	Incidence of and risk factors for severe neutropenia during treatment with the modified FOLFIRINOX therapy in patients with advanced pancreatic cancer	Ai Irisawa Misaki Takeno Kazuo Watanabe Hideaki Takahashi Shuichi Mitsunaga Masafumi Ikeda	Although FOLFIRINOX (L-Leucovorin/5-FU/Irinotecan/Oxaliplatin) is established as one of the standard therapies for patients with metastatic pancreatic cancer, the modified FOLFIRINOX (mFOLFIRINOX) is often used in clinical practice to reduce the incidence of toxicities. Febrile neutropenia (FN) and severe neutropenia during FOLFIRINOX are especially frequently observed in Japanese patients. In this study, we evaluated the incidence of FN and severe neutropenia, and explored the risk factors for...	pmid:36114233 doi:10.1038/s41598-022-18669-9	Fri, 16 Sep 2022 06:00:00 -0400
26	pubmed:36114249	Trends in outcome of transplantation in patients with secondary acute myeloid leukemia: an analysis from the Acute Leukemia Working Party (ALWP) of the EBMT	Arnon Nagler Maud Ngoya Galimard Jacques-Emmanuel Myriam Labopin Nicolaus Kröger Gerard Socié Tobias Gedde-Dahl Victoria Potter Thomas Schroeder Uwe Platzbecker Arnold Ganser Didier Blaise Urpu Salmenniemi Johan Maertens Charles Craddock Hélène Labussière-Wallet Ibrahim Yakoub-Agha Bipin Savani Mohamad Mohty	Trends in outcome of transplantation (HSCT) in secondary acute myeloid leukemia (sAML) are limited. We evaluated results of HSCT in 4224 patients with sAML in complete remission; 1337 were transplanted in 2000-2010 and 2887 in 2011-2020. Median age was 54 (range, 18-74) and 59 (range, 18-78) years, respectively (p	pmid:36114249 doi:10.1038/s41409-022-01825-0	Fri, 16 Sep 2022 06:00:00 -0400
27	pubmed:36114300	Prognostic Value of Geriatric Nutritional Risk Index for Patients with Non-Small Cell Lung Cancer: A Systematic Review and Meta-Analysis	Fangfang Shen Yong Ma Wei Guo Feng Li	CONCLUSION: Data indicate that GNRI has good prognostic ability in patients with NSCLC. Individuals with low GNRI are at an increased risk of poor OS and DFS. GNRI could be incorporated as a simple, easy-to-use tool for the initial stratification of patients thereby allowing focused treatment plans.	pmid:36114300 doi:10.1007/s00408-022-00567-6	Fri, 16 Sep 2022 06:00:00 -0400

	NCT Number	Title	Authors	Description	Identifier	Dates
28	pubmed:36114310	Magnetically responsive nanoplatform targeting circRNA circ_0058051 inhibits hepatocellular carcinoma progression	Song You Zijin Luo Niangmei Cheng Ming Wu Yongping Lai Fei Wang Xiaoyuan Zheng Yingchao Wang Xiaolong Liu Jingfeng Liu Bixing Zhao	Circular RNAs (circRNAs) are a class of highly stable and closed-loop noncoding RNA that are involved in the occurrence and development of hepatocellular carcinoma (HCC). However, little is known about the therapeutic role of circRNAs in HCC. We found that high circ_0058051 expression was negatively correlated with the prognosis of HCC patients. Circ_0058051 knockdown attenuated the proliferation and colony formation, meanwhile inhibited migration of HCC cells. Circ_0058051 may be used as a...	pmid:36114310 doi:10.1007/s13346-022-01237-z	Fri, 16 Sep 2022 06:00:00 -0400
29	pubmed:36114315	Prognostic Significance of Plasma Insulin Level for Deep Venous Thrombosis in Patients with Severe Traumatic Brain Injury in Critical Care	Min Du Qing-Hong Zhang Rui Tang Hai-Yan Liu Zong-Shu Ji Zhi Gao Ying Wang He-Yang You Ji-Wei Hao Min Zhou	CONCLUSIONS: Elevated insulin levels in the first 14 days after TBI may indicate insulin resistance, which is associated with platelet hyperactivity, and thus increasing the risk of DVT.	pmid:36114315 doi:10.1007/s12028-022-01588-y	Fri, 16 Sep 2022 06:00:00 -0400
30	pubmed:36114328	miR-1246-overexpressing exosomes suppress UVB-induced photoaging via regulation of TGF-/Smad and attenuation of MAPK/AP-1 pathway	Wei Gao Li-Min Yuan Yue Zhang Fang-Zhou Huang Fei Gao Jian Li Feng Xu Hui Wang Yu-Shuai Wang	Stem cell therapy is widely employed for the treatment of skin diseases, especially in skin rejuvenation. Exosomes derived from stem cells have been demonstrated to possess anti-photoaging effects; however, the precise components within exosomes that are responsible for this effect remain unknown. Previously, miR-1246 was found to be one of the most abundant nucleic acids in adipose-derived stem cells (ADSCs)-derived exosomes. This study examined whether miR-1246 was the major therapeutic agent...	pmid:36114328 doi:10.1007/s43630-022-00304-1	Fri, 16 Sep 2022 06:00:00 -0400
31	pubmed:36114353	Genetic correction of haemoglobin E in an immortalised haemoglobin E/beta-thalassaemia cell line using the CRISPR/Cas9 system	Kongtana Trakarnsanga Nontaphat Thongsin Chanatip Metheetrairut Chartsiam Tipgomut Saiphon Poldee Methichit Wattanapanitch	-thalassaemia is one of the most common genetic blood diseases worldwide with over 300 mutations in the HBB gene affecting red blood cell functions. Recently, advances in genome editing technology have provided a powerful tool for precise genetic correction. Generation of patient-derived induced pluripotent stem cells (iPSCs) followed by genetic correction of HBB mutations and differentiation into haematopoietic stem/progenitor cells (HSPCs) offers a potential therapy to cure the disease....	pmid:36114353 doi:10.1038/s41598-022-19934-7	Fri, 16 Sep 2022 06:00:00 -0400
32	pubmed:36114375	Design, construction and in vivo functional assessment of a hinge truncated sFLT01	Fahimeh Zakeri Hamid Latifi-Navid Zahra-Soheila Soheili Mehdi Sadeghi Seyed Shahriar Arab Shahram Samiei Ehsan Ranaei Pirmardan Sepideh Taghizadeh Hamid Ahmadieh Ali Hafezi-Moghadam	Gene therapy for the treatment of ocular neovascularization has reached clinical trial phases. The AAV2-sFLT01 construct was already evaluated in a phase 1 open-label trial administered intravitreally to patients with advanced neovascular age-related macular degeneration. SFLT01 protein functions by binding to VEGF and PlGF molecules and inhibiting their activities simultaneously. It consists of human VEGFR1/Flt-1 (hVEGFR1), a polyglycine linker, and the Fc region of human IgG1. The IgG1 upper...	pmid:36114375 doi:10.1038/s41434-022-00362-1	Fri, 16 Sep 2022 06:00:00 -0400

	NCT Number	Title	Authors	Description	Identifier	Dates
33	pubmed:36114410	MicroRNA-570 targets the HSP chaperone network, increases proteotoxic stress and inhibits mammary tumor cell migration	Yuka Okusha Martin E Guerrero-Gimenez Benjamin J Lang Thiago J Borges Mary A Stevenson Andrew W Truman Stuart K Calderwood	The dynamic network of chaperone interactions known as the chaperome contributes significantly to the proteotoxic cell response and the malignant phenotype. To bypass the inherent redundancy in the network, we have used a microRNA (mir) approach to target multiple members of the chaperome simultaneously. We identified a potent microRNA, miR-570 that could bind the 3'untranslated regions of multiple HSP mRNAs and inhibit HSP synthesis. Transfection of cells with this miR species reduced...	pmid:36114410 doi:10.1038/s41598-022-19533-6	Fri, 16 Sep 2022 06:00:00 -0400
34	pubmed:36114448	Bioinformatics analysis reveals the potential target of rosiglitazone as an antiangiogenic agent for breast cancer therapy	Adam Hermawan Herwandhani Putri	CONCLUSION: This study explored the potential targets of RGZ as antiangiogenic agents in breast cancer therapy and highlighted FABP4, ADIPOQ, PPARG, PPARGC1A, CD36, and CREBBP as potential targets of RGZ. These findings require further validation to explore the potential of RGZ as an antiangiogenic agent.	pmid:36114448 doi:10.1186/s12863-022-01086-2	Fri, 16 Sep 2022 06:00:00 -0400
35	pubmed:36114512	Xeno-free induced pluripotent stem cell-derived neural progenitor cells for in vivo applications	Ruslan Rust Rebecca Z Weber Melanie Generali Debora Kehl Chantal Bodenmann Daniela Uhr Debora Wanner Kathrin J Zürcher Hirohide Saito Simon P Hoerstrup Roger M Nitsch Christian Tackenberg	CONCLUSION: We describe the generation of transgene- and xeno-free NPCs. This simple differentiation protocol combined with the ability of in vivo cell tracking presents a valuable tool to develop safe and effective cell therapies for various brain injuries.	pmid:36114512 doi:10.1186/s12967-022-03610-5	Fri, 16 Sep 2022 06:00:00 -0400
36	pubmed:36114514	The role of DNA demethylation in liver to pancreas transdifferentiation	Adi Har-Zahav Daniela Lixandru David Cheishvili Ioan Valentin Matei Ioana Raluca Florea Veronica Madalina Aspritoiu Inna Blus-Kadosh Irit Meivar-Levy Andreea Madalina Serban Irinel Popescu Moshe Szyf Sarah Ferber Simona Olimpia Dima	CONCLUSIONS: Transdifferentiation is associated with global DNA hypomethylation, and with increased expression of specific demethylated genes. A combination of epigenetic modulators may be used to increase chromatin accessibility of the pancreatic transcription factors, thus promoting the efficiency of the developmental process.	pmid:36114514 doi:10.1186/s13287-022-03159-6	Fri, 16 Sep 2022 06:00:00 -0400
37	pubmed:36114524	A novel Silva pattern-based model for precisely predicting recurrence in intermediate-risk cervical adenocarcinoma patients	Chenyan Guo Xiang Tao Lihong Zhang Ying Zhang Keqin Hua Junjun Qiu	CONCLUSIONS: Our study established a Silva-based four-factor model specific for intermediate-risk AC patients, which has superior recurrence prediction performance than Sedlis criteria and may better guide postoperative adjuvant therapy.	pmid:36114524 doi:10.1186/s12905-022-01971-z	Fri, 16 Sep 2022 06:00:00 -0400
38	pubmed:36114551	The clinical characteristics and treatment of ovarian malignant mesoderm mixed tumor: a systematic review	Xin Wang Shiyuan Wang Shujuan Yao Wei Shi Ke Ma	CONCLUSION: The OOTCDS and platinum-based chemotherapy regimen can improve the prognosis of OMMMT. Targeted therapy might become a new research direction in the future. Since the elderly patients are the majority, the toxicity of new drugs on the elderly patients is more noteworthy.	pmid:36114551 doi:10.1186/s13048-022-01037-6	Fri, 16 Sep 2022 06:00:00 -0400

	NCT Number	Title	Authors	Description	Identifier	Dates
39	pubmed:36114573	Rituximab, lenalidomide and BTK inhibitor as frontline treatment for elderly or unfit patients with diffuse large B-cell lymphoma: a real-world analysis of single center	Yanan Zhu Xiang Zhang Juying Wei Chunmei Yang Hongyan Tong Wenyuan Mai Min Yang Jiejing Qian Liping Mao Haitao Meng Jie Jin Wenjuan Yu	The combination of rituximab, lenalidomide, and Bruton's tyrosine kinase inhibitor (BTKi) ibrutinib, followed by chemotherapy, has shown high efficacy in patients with newly diagnosed diffuse large B-cell lymphoma (DLBCL) in Smart Start trial. We aimed to evaluate the efficacy, safety of SMART (rituximab + lenalidomide + BTKi) regimen and SMART-START regimen as a first-line treatment in elderly or unfit DLBCL patients. 31 patients were included, 17 used SMART regimen, with median age 82 years,...	pmid:36114573 doi:10.1186/s40164-022-00314-w	Fri, 16 Sep 2022 06:00:00 -0400
40	pubmed:36114599	Retrospective review of outcomes associated with metastatic melanoma patients treated with 1st line BRAF-targeted therapy	James Jones Rebecca Lucey Pippa Corrie	CONCLUSIONS: Metastatic melanoma patients treated with 1^(st) -line BRAF-targeted therapy now have different demographics compared with those recruited to registration trials conducted over the last 10 years. In a modern-day, real-world setting, these patients should be counselled that only 1 in 5 are likely to receive 2^(nd) -line immunotherapy and their survival times are expected to be short.	pmid:36114599 doi:10.1111/pcmr.13067	Fri, 16 Sep 2022 06:00:00 -0400
41	pubmed:36114660	Guidance for transfusion management in patients receiving magrolimab therapy (anti-CD47 monoclonal antibody)	Michelle Tan Nicole Zacher Rae French Marija Borosak Samantha Lennard Annette Le Viellez Simon Benson James Daly	Magrolimab (Hu5F9-G4) is a first-in-class anti-CD47 IgG4 monoclonal antibody, with potential applications in several malignancies including myelodysplastic syndrome. CD47 blockade in malignancy has shown to promote anti-tumour effects. However, the ubiquity of CD47 on red blood cells can result in interference in pretransfusion immunohaematology investigations and hinder timely provision of red cell units, with potential to mask clinically significant alloantibodies. We reviewed the literature...	pmid:36114660 doi:10.1111/imj.15934	Sat, 17 Sep 2022 06:00:00 -0400
42	pubmed:36114670	Targeted genomic translocations and inversions generated using a paired prime editing strategy	Jiyeon Kweon Hye-Yeon Hwang Haesun Ryu An-Hee Jang Daesik Kim Yongsub Kim	A variety of cancers have been found to have chromosomal rearrangements and the genomic abnormalities often induced expression of fusion oncogenes. To date, a pair of engineered nucleases including ZFNs, TALENs, and CRISPR-Cas9 nucleases have been used to generate chromosomal rearrangement in living cells and organisms for disease modeling. However, these methods induce unwanted indel mutations at the DNA break junctions, resulting in incomplete disease modeling. Here, we developed Prime editor...	pmid:36114670 doi:10.1016/j.ymthe.2022.09.008	Sat, 17 Sep 2022 06:00:00 -0400
43	pubmed:36114749	METTL3 mediated m^{6} A mRNA contributes to the resistance of carbon-ion radiotherapy in non-small cell lung cancer	Xiaofeng Xu Peiru Zhang Yangle Huang Weizhong Shi Jingfang Mao Ningyi Ma Lin Kong Lin Guo Jinlong Liu Jian Chen Renquan Lu	Lung cancer is one of the leading causes of death among cancer patients worldwide. Carbo-ion radiotherapy is a radical non-surgical treatment with high local control rates and no serious adverse events. N6-methyladenosine (m6A) modification is one of the most common chemical modifications in eukaryotic messenger RNAs (mRNAs), which has important effects on the stability, splicing and translation of mRNAs. Recently, the regulatory role of m6A in tumorigenesis has been recognized more and more....	pmid:36114749 doi:10.1111/cas.15590	Sat, 17 Sep 2022 06:00:00 -0400

	NCT Number	Title	Authors	Description	Identifier	Dates
44	pubmed:36114756	ROS inhibits ROR degradation by decreasing its arginine methylation in liver cancer	Hyuntae Im Hee-Ji Baek Eunbi Yang Kyeongkyu Kim Se Kyu Oh Jung-Shin Lee Hyunkyung Kim Ji Min Lee	Retinoic acid receptor-related orphan receptor (ROR) is a transcription factor involved in nuclear gene expression and a known tumor suppressor. ROR was the first identified substrate of lysine methylation-dependent degradation. However, the mechanisms of other post-translational modifications (PTMs) that cause ROR remain largely unknown, especially in liver cancer. Arginine methylation is a common PTM in arginine residues of non- and histone proteins and affects substrate protein function...	pmid:36114756 doi:10.1111/cas.15595	Sat, 17 Sep 2022 06:00:00 -0400
45	pubmed:36114791	Microembolic Signal Monitoring in Patients with Left Ventricular Assist Devices HeartMate 3 and HeartWare - Association with Antithrombotic Treatment and Cerebrovascular Events	Kim Kristin Ravenberg Maria Magdalena Gabriel Andrei Leotescu Anh Thu Tran Gerrit Maximilian Grosse Ramona Schuppner Johanna Ernst Ralf Lichtinghagen Andreas Tiede Sonja Werwitzke Christoph Leon Bara Jan Dieter Schmitto Karin Weissenborn Jasmin Sarah Hanke Hans Worthmann	CONCLUSION: For the first time, the prevalence of MES was prospectively investigated in a notable outpatient cohort of patients with HM 3 and HW. Despite optimized properties of the latest LVAD devices, MES remain detectable depending on antithrombotic therapy. No association between MES and CVE could be detected.	pmid:36114791 doi:10.1111/aor.14409	Sat, 17 Sep 2022 06:00:00 -0400
46	pubmed:36114955	Effect of FGFR2 Alterations on Overall and Progression-Free Survival in Patients Receiving Systemic Therapy for Intrahepatic Cholangiocarcinoma	Ghassan K Abou-Alfa Kristen Bibeau Nikolaus Schultz Amin Yaqubie Brittanie Millang Haobo Ren Luis Féliz	CONCLUSIONS: Patients with intrahepatic cholangiocarcinoma and FGFR2 fusions may have a better prognosis than those without FGFR2 alterations in terms of overall survival, and progression-free survival on second-line, but not first-line systemic therapy. Progression-free survival improvement on second-line chemotherapy may imply an important impact of prior chemotherapy as first line.	pmid:36114955 doi:10.1007/s11523-022-00906-w	Sat, 17 Sep 2022 06:00:00 -0400
47	pubmed:36114992	Protein kinase CK2 - diverse roles in cancer cell biology and therapeutic promise	Janeen H Trembley Betsy T Kren Muhammad Afzal George A Scaria Mark A Klein Khalil Ahmed	The association of protein kinase CK2 (formerly casein kinase II or 2) with cell growth and proliferation in cells was apparent at early stages of its investigation. A cancer-specific role for CK2 remained unclear until it was determined that CK2 was also a potent suppressor of cell death (apoptosis); the latter characteristic differentiated its function in normal versus malignant cells because dysregulation of both cell growth and cell death is a universal feature of cancer cells. Over time, it...	pmid:36114992 doi:10.1007/s11010-022-04558-2	Sat, 17 Sep 2022 06:00:00 -0400

	NCT Number	Title	Authors	Description	Identifier	Dates
48	pubmed:36115050	ZEB1 loss increases glioma stem cell tumorigenicity and resistance to chemoradiation	George K Hanna Mecca Madany Angelique Sao-Mai Sy Tay Lincoln A Edwards Sungjin Kim Justin S Michael Miriam Nuno Tom Thomas Aiguo Li Dror Berel Keith L Black Xuemo Fan Wei Zhang Jeremy D Rudnick Rongfu Wang John S Yu	CONCLUSIONS: The study results indicate that ZEB1 loss in cancer stem cells confers resistance to chemoradiation and uncovers a potentially targetable cell surface receptor in these resistant cells.	pmid:36115050 doi:10.3171/2022.7.JNS22259	Sat, 17 Sep 2022 06:00:00 -0400
49	pubmed:36115055	Imaging-defined necrosis after treatment with single-fraction stereotactic radiosurgery and immune checkpoint inhibitors and its potential association with improved outcomes in patients with brain metastases: an international multicenter study of 697 pati	Eric J Lehrer Manmeet S Ahluwalia Jason Gurewitz Kenneth Bernstein Douglas Kondziolka Ajay Niranjan Zhishuo Wei L Dade Lunsford Kareem R Fakhoury Chad G Rusthoven David Mathieu Claire Trudel Timothy D Malouff Henry Ruiz-Garcia Phillip Bonney Lindsay Hwang Cheng Yu Gabriel Zada Samir Patel Christopher P Deibert Piero Picozzi Andrea Franzini Luca Attuati Rahul N Prasad Raju R Raval Joshua D Palmer Cheng-Chia Lee Huai-Che Yang Brianna M Jones Sheryl Green Jason P Sheehan Daniel M Trifiletti	CONCLUSIONS: TRICs following ICI and SRS were associated with a median OS benefit of approximately 6 months in this retrospective multicenter study. Further prospective study and additional stratification are needed to validate these findings and further elucidate the role and etiology of this common clinical scenario.	pmid:36115055 doi:10.3171/2022.7.JNS22752	Sat, 17 Sep 2022 06:00:00 -0400