

gene therapy

NCT Number		Title	Authors	Description	Identifier	Dates
1	pubmed:36130503	An in situ analysis pipeline for initial host-pathogen interactions reveals signatures of human colorectal HIV transmission	Heeva Baharlou Nicolas Canete Erica E Vine Kevin Hu Di Yuan Kerrie J Sandgren Kirstie M Bertram Najla Nasr Jake W Rhodes Martijn P Gosselink Angelina Di Re Faizur Reza Grahame Ctercteko Nimalan Pathma-Nathan Geoff Collins James Toh Ellis Patrick Muzlifah A Haniffa Jacob D Estes Scott N Byrne Anthony L Cunningham Andrew N Harman	The initial immune response to HIV determines transmission. However, due to technical limitations we still do not have a comparative map of early mucosal transmission events. By combining RNAscope, cyclic immunofluorescence, and image analysis tools, we quantify HIV transmission signatures in intact human colorectal explants within 2 h of topical exposure. We map HIV enrichment to mucosal dendritic cells (DCs) and submucosal macrophages, but not CD4^(+) T cells, the primary targets of downstream...	pmid:36130503 doi:10.1016/j.celrep.2022.111385	Wed, 21 Sep 2022 06:00:00 -0400
2	pubmed:36130624	Statin-regulated phagocytosis and efferocytosis in physiological and pathological conditions	Amir Tajbakhsh Seyed Mohammad Gheibihayat Hassan Askari Amir Savardashtaki Matteo Pirro Thomas P Johnston Amirhossein Sahebkar	Efferocytosis (clearance of apoptotic cells by phagocytosis without inducing inflammation and autoimmunity) is an important mechanism in the resolution of inflammatory processes. Efficient efferocytosis inhibits the accumulation of apoptotic cells/debris and maintains homeostasis before the onset of necrosis (secondary necrosis), which promotes inflammation or injury. Moreover, the detection and clearance of apoptotic cells can promote anti-inflammatory responses. Defective efferocytosis is...	pmid:36130624 doi:10.1016/j.pharmthera.2022.108282	Wed, 21 Sep 2022 06:00:00 -0400
3	pubmed:36130823	Adult-onset reversible idiopathic hypogonadotropic hypogonadism in male adult carrying a <i>WDR11</i> missense mutation	Rie Yamada Noriyoshi Yamakita Keigo Yasuda Atsushi Imai	Idiopathic hypogonadotropic hypogonadism (IHH) occurs mostly in childhood or adolescence and very rarely in adulthood. It is characterised by delayed onset of secondary sexual characteristics. Many genetic abnormalities have been reported in congenital IHH cases, but rarely in adult-onset IHH cases. IHH requires lifelong hormone replacement therapy; however, a few reports suggest the reversibility of this condition.In this case, after having his first child, a man in his 20s was diagnosed with...	pmid:36130823 doi:10.1136/bcr-2022-250444	Wed, 21 Sep 2022 06:00:00 -0400

NCT Number		Title	Authors	Description	Identifier	Dates
4	pubmed:36131015	Unified rhombic lip origins of group 3 and group 4 medulloblastoma	Kyle S Smith Laure Bihannic Brian L Gudenاس Parthiv Haldipur Ran Tao Qingsong Gao Yiran Li Kimberly A Aldinger Igor Y Iskusnykh Victor V Chizhikov Matthew Scoggins Silu Zhang Angela Edwards Mei Deng Ian A Glass Lynne M Overman Jake Millman Alexandria H Sjoboen Jennifer Hadley Joseph Golser Kshitij Mankad Heather Sheppard Arzu Onar-Thomas Amar Gajjar Giles W Robinson Volker Hovestadt Brent A Orr Zoltán Patay Kathleen J Millen Paul A Northcott	Medulloblastoma, a malignant childhood cerebellar tumour, segregates molecularly into biologically distinct subgroups, suggesting that a personalized approach to therapy would be beneficial ¹ . Mouse modelling and cross-species genomics have provided increasing evidence of discrete, subgroup-specific developmental origins ² . However, the anatomical and cellular complexity of developing human tissues ³ - particularly within the rhombic lip germinal zone, which produces all glutamatergic neuronal...	pmid:36131015 doi:10.1038/s41586-022-05208-9	Wed, 21 Sep 2022 06:00:00 -0400
5	pubmed:36131071	The role of LncRNA LBX2-AS1 in cancers: functions, mechanisms and potential clinical utility	Yuanshuai Su Chengzhi Li Yu Fang Xinyu Gu Qiuxian Zheng Juan Lu Lanjuan Li	Increasingly advanced biology technique has revealed that long non-coding RNAs (lncRNA) as critical factors that exert significant regulatory effects on biological functions by modulating gene transcription, epigenetic modifications and protein translation. A newly emerging lncRNA, ladybird homeobox 2 (LBX2)-antisense RNA 1 (LBX2-AS1), was found to be highly expressed in various tumors. Moreover, it is functionally linked to the regulation of essential tumor-related biological processes, such as...	pmid:36131071 doi:10.1007/s12094-022-02944-2	Wed, 21 Sep 2022 06:00:00 -0400
6	pubmed:36131127	Organizational Challenges in the Pediatric Onco-hematology Units During the First and Second Wave of the COVID-19 Pandemic: A National Survey in Italy	Matteo Amicucci Valentina Biagioli Elena Rostagno Marta Canesi Anna Bergadano Debora Botta Moreno Crotti Partel	This study aimed to describe and compare, at a national level, the measures implemented in the pediatric onco-hematology units and the number of infections among patients and healthcare staff during the first and second wave of the COVID-19 pandemic in Italy. A multicenter, descriptive, online survey was conducted between 15th March and 15th April 2020 (T1) and between 1 and 31st January 2021 (T2). All the Italian Pediatric Oncology and Hematology Association (AIEOP) centers were invited to...	pmid:36131127 doi:10.1007/s44228-022-00010-w	Wed, 21 Sep 2022 06:00:00 -0400

NCT Number		Title	Authors	Description	Identifier	Dates
7	pubmed:36131292	The architecture of clonal expansions in morphologically normal tissue from cancerous and non-cancerous prostates	Claudia Buhigas Anne Y Warren Wing-Kit Leung Hayley C Whitaker Hayley J Luxton Steve Hawkins Jonathan Kay Adam Butler Yaobo Xu Dan J Woodcock Sue Merson Fiona M Frame Atef Sahli Federico Abascal CRUK-ICGC Prostate Cancer Group Iñigo Martincorena G Steven Bova Christopher S Foster Peter Campbell Norman J Maitland David E Neal Charlie E Massie Andy G Lynch Rosalind A Eeles Colin S Cooper David C Wedge Daniel S Brewer	CONCLUSIONS: Cells within regions of morphologically normal tissue (both BPH and non-BPH) can expand under selective pressure by mechanisms that are distinct from those occurring in adjacent cancer, but that are allied to the presence of cancer. Expansions, which are probably stromal in origin, are characterised by lack of recurrent driver mutations, by almost complete absence of structural variants/copy number alterations, and mutational processes similar to malignant tissue. Our findings have...	pmid:36131292 doi:10.1186/s12943-022-01644-3	Wed, 21 Sep 2022 06:00:00 -0400
8	pubmed:36131343	CDH1 overexpression predicts bladder cancer from early stage and inversely correlates with immune infiltration	Tao Fan Liang Xue Bingzheng Dong Houguang He Wenda Zhang Lin Hao Weiming Ma Guanghui Zang Conghui Han Yang Dong	CONCLUSIONS: The identified oncogenic alterations provide theoretical support for the development of novel biomarkers to advance early-stage BC diagnosis and personalized therapy.	pmid:36131343 doi:10.1186/s12894-022-01103-7	Wed, 21 Sep 2022 06:00:00 -0400
9	pubmed:36131352	Genomics and epigenetics guided identification of tissue-specific genomic safe harbors	Dewan Shrestha Aishee Bag Ruiqiong Wu Yeting Zhang Xing Tang Qian Qi Jinchuan Xing Yong Cheng	CONCLUSIONS: Our study provides a new knowledge-based framework to identify tissue-specific genomic safe harbors. In combination with the fast-growing genome engineering technologies, our approach has the potential to improve the overall safety and efficiency of gene and cell-based therapy in the near future.	pmid:36131352 doi:10.1186/s13059-022-02770-3	Wed, 21 Sep 2022 06:00:00 -0400
10	pubmed:36131606	Alternative splicing analysis showed the splicing factor polypyrimidine tract-binding protein 1 as a potential target in acute myeloid leukemia therapy	Qiao-Xia Zhang Yu-Ming Pan Hong-Li Xiao Na An Si-Si Deng Xin Du	Alternative splicing (AS) is a universal post-transcriptional regulation process in cells, and increasing evidences have validated its crucial role in tumors. We collected AS event, gene expression, and clinical data of 178 AML patients from The Cancer Genome Atlas (TCGA) project. More than 1,000 AS events were found associated with overall survival (OS), and alternate promoter (AP) events were the most significant. The expression of the KIAA0930 transcript was the most significantly different...	pmid:36131606 doi:10.4149/neo_2022_220314N279	Thu, 22 Sep 2022 06:00:00 -0400

NCT Number		Title	Authors	Description	Identifier	Dates
11	pubmed:36131631	Ozone at low concentration modulates microglial activity in vitro: A multimodal microscopy and biomolecular study	Maria Assunta Lacavalla Chiara Rita Inguscio Barbara Cisterna Paolo Bernardi Manuela Costanzo Mirco Galiè Ilaria Scambi Osvaldo Angelini Gabriele Tabaracci Manuela Malatesta	Oxygen-ozone (O(2) -O(3)) therapy is an adjuvant/complementary treatment based on the activation of antioxidant and cytoprotective pathways driven by the nuclear factor erythroid 2-related factor 2 (Nrf2). Many drugs, including dimethyl fumarate (DMF), that are used to reduce inflammation in oxidative-stress-related neurodegenerative diseases, act through the Nrf2-pathway. The scope of the present investigation was to get a deeper insight into the mechanisms responsible for the beneficial...	pmid:36131631 doi:10.1002/jemt.24233	Thu, 22 Sep 2022 06:00:00 -0400
12	pubmed:36131793	Characterization of the Lipid Metabolism in Bladder Cancer to Guide Clinical Therapy	Yuan-Yuan Yang Sen-Yuan Hong Yang Xun Chen-Qian Liu Jian-Xuan Sun Jin-Zhou Xu Meng-Yao Xu Ye An Deng He Qi-Dong Xia Shao-Gang Wang	CONCLUSION: s. In conclusion, we investigated the lipid metabolism-related genes in bladder cancer through comprehensive bioinformatic analysis. A novel 6-gene signature associated with lipid metabolism for predicting the outcomes of patients with bladder cancer was conducted and validated. Furthermore, the risk score model could be utilized to indicate the choice of therapy in bladder cancer.	pmid:36131793 pmc:PMC9484922 doi:10.1155/2022/7679652	Thu, 22 Sep 2022 06:00:00 -0400
13	pubmed:36131844	The Association Between Genetic Polymorphisms of Transporter Genes and Prognosis of Platinum-Based Chemotherapy in Lung Cancer Patients	Jia He Zhan Wang Ting Zou Ying Wang Xiang-Ping Li Juan Chen	CONCLUSION: Genetic polymorphisms of rs1448784 in ABCG2 might be potential clinical marker for predicting the prognosis of lung cancer patients treated with platinum-based chemotherapy.	pmid:36131844 pmc:PMC9484078 doi:10.2147/PGPM.S375284	Thu, 22 Sep 2022 06:00:00 -0400
14	pubmed:36131908	Cardiac magnetic resonance diagnosis of Fabry disease leads to incidental diagnosis of Klinefelter syndrome: a case report	Giulia Binda John Cameron Bridgman Ian Chapman Joseph B Selvanayagam	BACKGROUND: Fabry disease is an X-linked lysosomal storage disorder resulting in deficient activity of alpha-galactosidase. Males are general more severely affected however heterozygous females can variably express the disease depending on the degree of random X chromosome inactivation (Lyonization). We present a case where cardiac magnetic resonance diagnosis of late onset Fabry Disease leads to an incidental diagnosis of Klinefelter syndrome.	pmid:36131908 pmc:PMC9486915 doi:10.1093/ehjcr/ytac328	Thu, 22 Sep 2022 06:00:00 -0400
15	pubmed:36131914	IRF7 expression correlates with HIV latency reversal upon specific blockade of immune activation	Ifeanyi Jude Ezeonwumelu Eduarne García-Vidal Eudald Felip Maria C Puertas Bruna Oriol-Tordera Lucía Gutiérrez-Chamorro André Gohr Marta Ruiz-Riol Marta Massanella Bonaventura Clotet Javier Martinez-Picado Roger Badia Eva Riveira-Muñoz Ester Ballana	The persistence of latent HIV reservoirs allows for viral rebound upon antiretroviral therapy interruption, hindering effective HIV-1 cure. Emerging evidence suggests that modulation of innate immune stimulation could impact viral latency and contribute to the clearing of HIV reservoir. Here, the latency reactivation capacity of a subclass of selective JAK2 inhibitors was characterized as a potential novel therapeutic strategy for HIV-1 cure. Notably, JAK2 inhibitors reversed HIV-1 latency in...	pmid:36131914 pmc:PMC9484258 doi:10.3389/fimmu.2022.1001068	Thu, 22 Sep 2022 06:00:00 -0400

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16	pubmed:36131918	IL4I1 binds to TMPRSS13 and competes with SARS-CoV-2 spike	Jérôme Gatineau Charlotte Nidercorne Aurélie Dupont Marie-Line Puiffe José L Cohen Valérie Molinier-Frenkel Florence Niedergang Flavia Castellano	The secreted enzyme interleukin four-induced gene 1 (IL4I1) is involved in the negative control of the adaptive immune response. IL4I1 expression in human cancer is frequent and correlates with poor survival and resistance to immunotherapy. Nevertheless, its mechanism of action remains partially unknown. Here, we identified transmembrane serine protease 13 (TMPRSS13) as an immune cell-expressed surface protein that binds IL4I1. TMPRSS13 is a paralog of TMPRSS2, of which the protease activity...	pmid:36131918 pmc:PMC9483092 doi:10.3389/fimmu.2022.982839	Thu, 22 Sep 2022 06:00:00 -0400
17	pubmed:36131921	The cuproptosis-associated 13 gene signature as a robust predictor for outcome and response to immune- and targeted-therapies in clear cell renal cell carcinoma	Huiyang Yuan Xin Qin Jing Wang Qingya Yang Yidong Fan Dawei Xu	Cuproptosis, the newly identified form of regulatory cell death (RCD), results from mitochondrial proteotoxic stress mediated by copper and FDX1. Little is known about significances of cuproptosis in oncogenesis. Here we determined clinical implications of cuproptosis in clear cell renal cell carcinoma (ccRCC). Based on the correlation and survival analyses of cuproptosis-correlated genes in TCGA ccRCC cohort, we constructed a cuproptosis-associated 13 gene signature (CuAGS-13) score system. In...	pmid:36131921 pmc:PMC9483097 doi:10.3389/fimmu.2022.971142	Thu, 22 Sep 2022 06:00:00 -0400
18	pubmed:36132129	Cancer knowledge and health-consciousness in childhood cancer survivors following transition into adult care-results from the ACCS project	Maria Otth Sibylle Denzler Tamara Diesch-Furlanetto Katrin Scheinemann	CONCLUSION: CCSs receiving hospital-based LTFU care have good cancer knowledge and high self-management skills. The identified worries and expectations will help to improve the LTFU care of CCSs who transition to adult care, to further inform and educate survivors and healthcare professionals about and might be relevant for other countries with a similar healthcare system.	pmid:36132129 pmc:PMC9483214 doi:10.3389/fonc.2022.946281	Thu, 22 Sep 2022 06:00:00 -0400
19	pubmed:36132130	Identification of a novel necroptosis-related classifier to predict prognosis and guide immunotherapy in breast invasive carcinoma	Qin Zhou Yan Xu Liang Shen Xiaochen Yang Li Wang	CONCLUSION: A reliable risk model based on NRGs to assess patient prognoses and guide clinical decision-making was constructed and validated. Our findings may contribute to the understanding of necroptosis and aid clinical management, along with precision treatment in BRCA.	pmid:36132130 pmc:PMC9484550 doi:10.3389/fonc.2022.852365	Thu, 22 Sep 2022 06:00:00 -0400
20	pubmed:36133439	Construction of a Novel Oxidative Stress Response-Related Gene Signature for Predicting the Prognosis and Therapeutic Responses in Hepatocellular Carcinoma	Junjie Hong Xiujun Cai	Hepatocellular carcinoma (HCC) is a highly heterogeneous malignancy with poor outcomes, and the assessment of its prognosis as well as its response to therapy is still challenging. In this study, we aimed to construct an oxidative stress response-related genes-(OSRGs-) based gene signature for predicting prognosis and estimating treatment response in patients with HCC. We integrated the transcriptomic data and clinicopathological information of HCC patients from The Cancer Genome Atlas (TCGA)...	pmid:36133439 pmc:PMC9484914 doi:10.1155/2022/6201987	Thu, 22 Sep 2022 06:00:00 -0400

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21	pubmed:36133451	Rare earth nanoparticles for sprayed and intravenous NIR II imaging and photodynamic therapy of tongue cancer	Lingling Cai Zhan Wang Bi Lin Kaikai Liu Yanxing Wang Ying Yuan Xiaofeng Tao Ruichan Lv	In this research, rare earth nanoparticles coupled with dihydroartemisinin (DHA) and a targeted antibody (REN-P-DHA-Cap) for sprayed NIR II imaging and photodynamic therapy (PDT) of tongue cancer were designed. Genetic algorithms combined with combinatorial chemistry were proposed and successfully achieved in a single optimized luminescent phosphor with enhanced NIR II and high upconversion luminescence (UCL) under a NIR laser of wavelength 980 nm or/and 808 nm. In particular, T1 magnetic...	pmid:36133451 pmc:PMC9418583 doi:10.1039/d2na00197g	Thu, 22 Sep 2022 06:00:00 -0400
22	pubmed:36133499	The Prominent Role of miR-942 in Carcinogenesis of Tumors	Negar Yadegar Zahra Dadashi Kimiya Shams Mahdis Mohammadi Mahya Abyar Milad Rafat	As a family of short noncoding RNAs, MicroRNAs have been identified as possible biomarkers for cancer discovery and assist in therapy control due to their epigenetic involvement in gene expression and other cellular biological processes. In the present review, the evidence for reaching the clinical effect and the molecular mechanism of miR-942 in various kinds of cancer is amassed. Dysregulation of miR-942 amounts in different kinds of malignancies, as bladder cancer, esophageal squamous cell...	pmid:36133499 pmc:PMC9483553 doi:10.4103/abr.abr_226_21	Thu, 22 Sep 2022 06:00:00 -0400
23	pubmed:36133509	Lineage switch from lymphoma to myeloid neoplasms: First case series from a single institution	Wenjuan Yang Shuangfeng Xie Yiqing Li Jieyu Wang Jie Xiao Kexhi Huang Xiuju Wang Yudan Wu Liping Ma Danian Nie	Lymphoma relapse is very common in clinical work, but lineage switch at relapse is rare. Although some cases have reported acute lymphocytic leukemia (ALL) switch to acute myeloid leukemia (AML) or myeloid sarcoma upon relapse, phenotype switch seldom occurs in other types of lymphoma. Here we report six cases with lineage switch from lymphoma to myeloid neoplasms. In our cohort, three cases were mantle cell lymphoma (MCL), and the other three cases were T-cell lymphoblastic lymphoma (T-LBL),...	pmid:36133509 pmc:PMC9462540 doi:10.1515/med-2022-0521	Thu, 22 Sep 2022 06:00:00 -0400
24	pubmed:36133810	Comprehensive elaboration of circular RNA in multiple myeloma	Chunsheng Zhu Aoxiang Guo Bao Sun Zheng Zhou	Circular RNAs (circRNAs), a novel category of endogenous non-coding RNAs, are usually well conserved across different species with a covalent closed-loop structure. Existing and emerging evidence confirms that circRNAs can function as regulators of alternative splicing, microRNA and RNA-binding protein sponges and translation, as well as gene transcription. In consideration of their multi-faceted functions, circRNAs are critically involved in hematological malignancies including multiple myeloma...	pmid:36133810 pmc:PMC9483726 doi:10.3389/fphar.2022.971070	Thu, 22 Sep 2022 06:00:00 -0400
25	pubmed:36133954	The role of psychiatry in quality of life in young patients with non-small cell lung cancer	Orna Alpert Bakht Siddiqui Zed Shabbir Majd Soudan Patrik Garren	CONCLUSION: It is important to fully explore the nature of the cancer, including mutation types. Our case demonstrates that the detection of the driver gene mutation EGFR and/or ALK rearrangement could affect treatment and prognosis in this patient population. There are many studies available that highlight targeted therapies for these mutations as well as chemotherapy and radiation. Psychiatry has a significant role in improving quality of life in these patients, which could enhance their...	pmid:36133954 pmc:PMC9483727 doi:10.1016/j.bbih.2022.100507	Thu, 22 Sep 2022 06:00:00 -0400

NCT Number		Title	Authors	Description	Identifier	Dates
26	pubmed:36134136	A review on contemporary nanomaterial-based therapeutics for the treatment of diabetic foot ulcers (DFUs) with special reference to the Indian scenario	Lakshimpriya Sethuram John Thomas Amitava Mukherjee Natarajan Chandrasekaran	Diabetes mellitus (DM) is a predominant chronic metabolic syndrome, resulting in various complications and high mortality associated with diabetic foot ulcers (DFUs). Approximately 15-30% of diabetic patients suffer from DFUs, which is expected to increase annually. The major challenges in treating DFUs are associated with wound infections, alterations to inflammatory responses, angiogenesis and lack of extracellular matrix (ECM) components. Furthermore, the lack of targeted therapy and...	pmid:36134136 pmc:PMC9418054 doi:10.1039/d1na00859e	Thu, 22 Sep 2022 06:00:00 -0400
27	pubmed:36134662	HPV E6 regulates therapy responses in oropharyngeal cancer by repressing the PGC-1/ERR axis	Malay K Sannigrahi Pavithra Rajagopalan Ling Lai Xinyi Liu Varun Sahu Hiroshi Nakagawa Jalal B Jalaly Robert M Brody Iain M Morgan Bradford E Windle Xiaowei Wang Phyllis A Gimotty Daniel P Kelly Elizabeth A White Devraj Basu	Therapy with radiation plus cisplatin kills HPV+ oropharyngeal squamous cell carcinomas (OPSCCs) by increasing reactive oxygen species beyond cellular antioxidant capacity. To explore why these standard treatments fail for some patients, we evaluated whether the variation in HPV oncoprotein levels among HPV+ OPSCCs affects mitochondrial metabolism, a source of antioxidant capacity. In cell line and patient-derived xenograft models, levels of HPV full-length E6 (fl-E6) inversely correlated with...	pmid:36134662 doi:10.1172/jci.insight.159600	Thu, 22 Sep 2022 06:00:00 -0400
28	pubmed:36135020	Synergetic Thermal Therapy for Cancer: State-of-the-Art and the Future	Qizheng Dai Bo Cao Shiqing Zhao Aili Zhang	As a safe and minimal-invasive modality, thermal therapy has become an effective treatment in cancer treatment. Other than killing the tumor cells or destroying the tumor entirely, the thermal modality results in profound molecular, cellular and biological effects on both the targeted tissue, surrounding environments, and even the whole body, which has triggered the combination of the thermal therapy with other traditional therapies as chemotherapy and radiation therapy or new therapies like...	pmid:36135020 doi:10.3390/bioengineering9090474	Thu, 22 Sep 2022 06:00:00 -0400
29	pubmed:36135023	Therapeutic Applications of the CRISPR-Cas System	Kyungmin Kang Youngjae Song Inho Kim Tae-Jung Kim	The clustered regularly interspaced palindromic repeat (CRISPR)-Cas system has revolutionized genetic engineering due to its simplicity, stability, and precision since its discovery. This technology is utilized in a variety of fields, from basic research in medicine and biology to medical diagnosis and treatment, and its potential is unbounded as new methods are developed. The review focused on medical applications and discussed the most recent treatment trends and limitations, with an emphasis...	pmid:36135023 doi:10.3390/bioengineering9090477	Thu, 22 Sep 2022 06:00:00 -0400

NCT Number		Title	Authors	Description	Identifier	Dates
30	pubmed:36135049	Diffuse Large B Cell Lymphoma Arising in Patients with Preexisting Hodgkin Lymphoma	Emilio Bellitti Pierluigi Masciopinto Pellegrino Musto Elena Arcuti Luca Mastracci Giuseppina Opinto Sabino Ciavarella Attilio Guarini Gerardo Cazzato Giorgina Specchia Eugenio Maiorano Francesco Gaudio Giuseppe Ingravallo	CONCLUSIONS: The origin of the second neoplastic cell in patients with DLBCL with a previous history of cHL remains controversial, although the different immunophenotypic characteristics suggest that it may mainly arise de novo in a subject with a possible individual predisposition to develop lymphoid neoplasms.	pmid:36135049 doi:10.3390/curroncol29090480	Thu, 22 Sep 2022 06:00:00 -0400
31	pubmed:36135052	Prognostic Value of Pretreatment Neutrophil-to-Lymphocyte Ratio in HER2-Positive Metastatic Breast Cancer	Bin Shao Xiaoran Liu Huiping Li Guohong Song Lijun Di Hanfang Jiang Ying Yan Ruyan Zhang Ran Ran Jiayang Zhang Yaxin Liu Huan Wang Jing Wang	This study aimed to examine the prognostic value of the neutrophil-to-lymphocyte ratio (NLR) and other clinicopathological features in HER2+ MBC patients who received first-line anti-HER2 therapy. A total of 129 patients were assigned to NLR-low and NLR-high groups based on a cutoff value of 3.0 at baseline. Peripheral blood lymphocyte subsets and gene mutations in circulating tumor DNA were analyzed by flow cytometry and Next-generation sequencing, respectively. Survival was evaluated by the...	pmid:36135052 doi:10.3390/curroncol29090483	Thu, 22 Sep 2022 06:00:00 -0400
32	pubmed:36135060	Management of Acute Myeloid Leukemia: A Review for General Practitioners in Oncology	Ryan J Stubbins Annabel Francis Florian Kuchenbauer David Sanford	Acute myeloid leukemia (AML) is a hematologic malignancy that most frequently develops in older adults. Overall, AML is associated with a high mortality although advancements in genetic risk stratification and new treatments are leading to improvements in outcomes for some subgroups. In this review, we discuss an individualized approach to intensive therapy with a focus on the role of recently approved novel therapies as well as the selection of post-remission therapies for patients in first...	pmid:36135060 doi:10.3390/curroncol29090491	Thu, 22 Sep 2022 06:00:00 -0400
33	pubmed:36135089	Acquired G2032R Resistance Mutation in ROS1 to Lorlatinib Therapy Detected with Liquid Biopsy	Balázs Jóri Markus Falk Iris Hövel Peggy Weist Markus Tiemann Lukas C Heukamp Frank Griesinger	Lorlatinib, a third-generation anaplastic lymphoma kinase (ALK)/receptor tyrosine kinase inhibitor (ROS1), demonstrated efficacy in ROS1 positive (ROS1+) non-small cell lung cancer (NSCLC), although approval is currently limited to the treatment of ALK+ patients. However, lorlatinib-induced resistance mechanisms, and its efficacy against the resistance mutation G2032R in ROS1, respectively, have not yet been fully understood. Furthermore, concomitant tumor suppressor gene p53 (TP53) mutations...	pmid:36135089 doi:10.3390/curroncol29090520	Thu, 22 Sep 2022 06:00:00 -0400
34	pubmed:36135100	Rational engineering of adeno-associated virus capsid enhances human hepatocyte tropism and reduces immunogenicity	Jiabao Han Liyu Zhu Jingwen Zhang Lu Guo Xuehan Sun Cheng Huang Kai Xu Ying Zhang Wei Li Qi Zhou	CONCLUSIONS: Our work proposed a new combined engineering strategy and engineered two liver-tropic AAVs. We also obtained several AAV variants with a higher transduction efficiency and lower sensitivity of neutralizing antibodies. By expanding the gene delivery toolbox, these variants may further facilitate the success of AAV gene therapy.	pmid:36135100 doi:10.1111/cpr.13339	Thu, 22 Sep 2022 06:00:00 -0400

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35	pubmed:36135168	Autologous Platelet Rich Plasma (PRGF) Preserves Genomic Stability of Gingival Fibroblasts and Alveolar Osteoblasts after Long-Term Cell Culture	Eduardo Anitua María de la Fuente María Troya Mar Zalduendo Mohammad Hamdan Alkhraisat	Plasma rich in growth factors (PRGF) has several applications in dentistry that may require repeated applications of PRGF. Furthermore, it has been used for ex vivo expansion of human origin cells for their clinical application. One of the most relevant issues in these applications is to guarantee the genetic stability of cells. In this study, the chromosomal stability of gingival fibroblasts and alveolar osteoblasts after long-term culture was evaluated. Cells were expanded with PRGF or foetal...	pmid:36135168 doi:10.3390/dj10090173	Thu, 22 Sep 2022 06:00:00 -0400
36	pubmed:36135177	Assessment of T Cell Receptor Complex Expression Kinetics in Natural Killer Cells	Khder H Rasul Alamdar Hussain Hazel Reilly Maria Karvouni Carin I M Dahlberg Mustafa S Al-Attar Arnika K Wagner Evren Alici Dara K Mohammad	Among the polypeptides that comprise the T cell receptor (TCR), only CD3 is found in Natural Killer (NK) cells, where it transmits signals from activating receptors such as CD16 and Nkp46. NK cells are potent immune cells that recognize target cells through germline-encoded activating and inhibitory receptors. Genetic engineering of NK cells enables tumor-specific antigen recognition and, thus, has a significant promise in adoptive cell therapy. Ectopic expression of engineered TCR components...	pmid:36135177 doi:10.3390/cimb44090265	Thu, 22 Sep 2022 06:00:00 -0400
37	pubmed:36135817	Toll-like receptor polymorphisms (TLR2 and TLR4) association with the risk of infectious complications in cardiac surgery patients	Agnieszka ukowska Andrzej Ciechanowicz Mariusz Kaczmarczyk Mirosaw Brykczynski Maciej ukowski	CONCLUSIONS: To our knowledge, this is the first study of its kind to demonstrate that TLR2 and TLR4 mutations affect the risk of post-CABG infections. Being a carrier of the AG+GG of D299G (rs4986790) or CT+TT of T399I (rs4986791), TLR4 variants constitute a postoperative risk factor for infection in patients undergoing CAGB procedures.	pmid:36135817 doi:10.17219/acem/152885	Thu, 22 Sep 2022 06:00:00 -0400
38	pubmed:36135892	The Neural Multilineage Differentiation Capacity of Human Neural Precursors from the Umbilical Cord-Ready to Bench for Clinical Trials	Daiany de Souza Dobuchak Priscila Elias Ferreira Stricker Nathalia Barth de Oliveira Bassam Felipe Mogharbel Nádia Nascimento da Rosa Dilcele Silva Moreira Dziedzic Ana Carolina Irioda Katherine Athayde Teixeira de Carvalho	Mesenchymal stem cells (MSC) are promising for regenerative medicine as they have a vast differentiation capacity, immunomodulatory properties and can be isolated from different tissues. Among them, the umbilical cord is considered a good source of MSC, as its collection poses no risk to donors and is unrelated to ethical issues. Furthermore, umbilical cord mesenchymal stem cells (UC-MSC) can differentiate into several cell lines, including neural lineages that, in the future, may become an...	pmid:36135892 doi:10.3390/membranes12090873	Thu, 22 Sep 2022 06:00:00 -0400
39	pubmed:36135925	Fitness effects of CRISPR endonucleases in <i>Drosophila melanogaster</i> populations	Anna M Langmüller Jackson Champer Sandra Lapinska Lin Xie Matthew Metzloff Samuel E Champer Jingxian Liu Yineng Xu Jie Du Andrew G Clark Philipp W Messer	CRISPR/Cas9 provides a highly efficient and flexible genome editing technology with numerous potential applications ranging from gene therapy to population control. Some proposed applications involve the integration of CRISPR/Cas9 endonucleases into an organism's genome, which raises questions about potentially harmful effects to the transgenic individuals. One example for which this is particularly relevant are CRISPR-based gene drives conceived for the genetic alteration of entire populations....	pmid:36135925 doi:10.7554/eLife.71809	Thu, 22 Sep 2022 06:00:00 -0400

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40	pubmed:36136256	A cytotoxic effect of human lactoferrin fusion with Fc domain of IgG	Ewa Zaczyska Maja Kociba Jolanta Artym Iwona Kochanowska Marian L Kruzel Micha Zimecki	Lactoferrin (LTF) is a natural iron-binding protein with a potential for clinical utility in many human immune disorders, including cancer. A fusion of LTF with the Fc domain of IgG2 (FcLTF) was designed with inherent properties of an extended the half-life in circulation. Furthermore, the effects of LTF and FcLTF were assessed for influence on the activity of natural killer (NK) cells isolated from human peripheral blood, on the NK-92 cell line, and on human monocytes. The NK cytotoxic activity...	pmid:36136256 doi:10.1007/s10534-022-00443-z	Thu, 22 Sep 2022 06:00:00 -0400
41	pubmed:36136258	Identification, molecular characterization, and in silico structural analysis of larval salivary glands Netrin-A as a potent biomarker from Lucilia sericata (Diptera: Calliphoridae)	Masoumeh Bagheri Hamzeh Alipour Tahereh Karamzadeh Marzieh Shahriari-Namadi Abbasali Raz Kourosh Azizi Javad Dadgar Pakdel Mohammad Djaefar Moemenbellah-Fard	The greenbottle blowfly <i>Lucilia sericata</i> (L. sericata) is increasingly used in larval therapy of chronic wounds. Netrins as bifunctional proteins are in the superfamily of Laminins secreted from larval salivary glands. The Netrin protein has a significant instructive role in axon guidance, causing neuronal outgrowth, angiogenesis, and cell migration. It seems to be crucial in wound healing and acts as a potential biomarker in diagnosing some clinical diseases. This survey aimed to identify...	pmid:36136258 doi:10.1007/s10709-022-00164-8	Thu, 22 Sep 2022 06:00:00 -0400
42	pubmed:36136267	Viral Tools for Neural Circuit Tracing	Qing Liu Yang Wu Huadong Wang Fan Jia Fuqiang Xu	Neural circuits provide an anatomical basis for functional networks. Therefore, dissecting the structure of neural circuits is essential to understanding how the brain works. Recombinant neurotropic viruses are important tools for neural circuit tracing with many advantages over non-viral tracers: they allow for anterograde, retrograde, and trans-synaptic delivery of tracers in a cell type-specific, circuit-selective manner. In this review, we summarize the recent developments in the viral tools...	pmid:36136267 doi:10.1007/s12264-022-00949-z	Thu, 22 Sep 2022 06:00:00 -0400
43	pubmed:36136297	Molecular Pathogenesis of Penile Squamous Cell Carcinoma	Brian A Keller Elena Pastukhova Bryan Lo Harman S Sekhon Trevor A Flood	CONCLUSIONS.—: Our understanding of the genetic and molecular mechanisms that underlie PSCC pathogenesis continues to evolve. PSCC tumorigenesis is mediated by multiple pathways, and mutations of oncogenic significance have been identified that may represent targets for personalized therapy. Preliminary results of treatment with immune checkpoint inhibition and tyrosine kinase inhibitors have produced variable clinical results. Further insight into the pathogenesis of PSCC will help guide...	pmid:36136297 doi:10.5858/arpa.2021-0592-RA	Thu, 22 Sep 2022 06:00:00 -0400
44	pubmed:36136430	Preclinical testing of dabigatran in trypsin-dependent pancreatitis	Zsófia G Pesei Zsanett Jancsó Alexandra Demcsák Balázs Csaba Németh Sandor Vajda Miklós Sahin-Tóth	Pancreatitis, the inflammatory disorder of the pancreas, has no specific therapy. Genetic, biochemical and animal model studies revealed that trypsin plays a central role in the onset and progression of pancreatitis. Here, we performed biochemical and preclinical mouse experiments to offer proof of concept that orally administered dabigatran etexilate can inhibit pancreatic trypsins and shows therapeutic efficacy in trypsin-dependent pancreatitis. We found that dabigatran competitively inhibited...	pmid:36136430 doi:10.1172/jci.insight.161145	Thu, 22 Sep 2022 06:00:00 -0400

NCT Number		Title	Authors	Description	Identifier	Dates
45	pubmed:36136431	Is treating with anti PD-1 to improve glomerular health come without a cost? Reply	Stuart J Shankland Jeffrey W Pippin Oliver Wessely	As representatives for our entire team, we thank Jhaveri et al. (1) for their insightful comments on our recent study investigating the increased expression of programmed cell death protein-1 (PD1) in kidneys during aging and FSGS.(2) In our manuscript we showed that PD1 was predominantly increased in podocytes and kidney tubular epithelial cells in both mice and humans. Moreover, in humans, age-elevated glomerular PCDC1 (gene encoding human PD1) levels were associated with a lower eGFR,...	pmid:36136431 doi:10.1172/JCI165287	Thu, 22 Sep 2022 06:00:00 -0400
46	pubmed:36136517	From Immunotoxins to Suicide Toxin Delivery Approaches: Is There a Clinical Opportunity?	Matteo Ardini Riccardo Vago Maria Serena Fabbrini Rodolfo Ippoliti	Suicide gene therapy is a relatively novel form of cancer therapy in which a gene coding for enzymes or protein toxins is delivered through targeting systems such as vesicles, nanoparticles, peptide or lipidic co-adjuvants. The use of toxin genes is particularly interesting since their catalytic activity can induce cell death, damaging in most cases the translation machinery (ribosomes or protein factors involved in protein synthesis) of quiescent or proliferating cells. Thus, toxin gene...	pmid:36136517 doi:10.3390/toxins14090579	Thu, 22 Sep 2022 06:00:00 -0400
47	pubmed:36136598	Neonatal hyperoxia in mice triggers long-term cognitive deficits via impairments in cerebrovascular function and neurogenesis	Marissa A Lithopoulos Xavier Toussay Shumei Zhong Liqun Xu Shamimunisa B Mustafa Julie Ouellette Moises Freitas-Andrade Cesar C Comin Hayam A Bassam Adam N Baker Yiren Sun Michael Wakem Alvaro G Moreira Cynthia L Blanco Arul Vadivel Catherine Tsilfidis Steven R Seidner Ruth S Slack Diane C Lagace Jing Wang Baptiste Lacoste Bernard Thébaud	Preterm birth is the leading cause of death in children under 5 years of age. Premature infants who receive life-saving oxygen therapy often develop bronchopulmonary dysplasia (BPD), a chronic lung disease. Infants with BPD are at a high risk of abnormal neurodevelopment, including motor and cognitive difficulties. While neural progenitor cells (NPCs) are crucial for proper brain development, it is unclear whether they play a role in BPD-associated neurodevelopmental deficits. Here, we showed...	pmid:36136598 doi:10.1172/JCI146095	Thu, 22 Sep 2022 06:00:00 -0400
48	pubmed:36136642	Interleukin 28B Polymorphism as a Predictor of Sustained Virological Response to Sofosbuvir-Based Therapy for Hepatitis C Virus Patients	Seham Mahrous Zaki Hanan Samir Ahmed Monkez Motieh Yousif Eman Mohamed Awad	In various genome-wide correlation studies, interleukin (IL)28B gene polymorphism has been strongly correlated with both the therapeutic and spontaneous mediated clearance of hepatitis C virus (HCV). Therefore, this study aimed to evaluate the genotype and allele frequency distributions of IL28B (rs12979860) in patients with chronic hepatitis C and assess the IL28B polymorphisms as predictors of sustained virological response to SOF-based therapy for HCV in Egyptian patients. This retrospective...	pmid:36136642 doi:10.3390/tropicalmed7090230	Thu, 22 Sep 2022 06:00:00 -0400

NCT Number		Title	Authors	Description	Identifier	Dates
49	pubmed:36136864	Cerebral Seizures in an Adolescent with Jervell and Lange-Nielsen Syndrome: It May Not Be Epilepsy	Joachim Levaux Nesrine Farhat Lieve Van Casteren Saskia Bulk Marie-Christine Seghayé	A 13-year-old girl with Jervell and Lange-Nielsen syndrome associated congenital long QT syndrome (LQTS) and central deafness was admitted for generalized seizures. LQTS had been diagnosed after birth and confirmed at genetic testing. -blocker treatment was immediately started. Despite this, since the age of 12 months, recurrent cerebral seizures occurred leading to the diagnosis of epilepsy. Anti-convulsive therapy was initiated but without success. At the last admission, nadolol dosage seemed...	pmid:36136864 doi:10.3390/clinpract12050070	Thu, 22 Sep 2022 06:00:00 -0400
50	pubmed:36136950	Effect of the elimination diet in psoriasis: a clinical case	A A Barilo S V Smirnova A A Sinyakov	Psoriasis (PS) is a multifactorial disease with a dominant role of genetic predisposition, but the questions of PS etiology and pathogenesis still remain open. The development of PS can be facilitated by environmental factors, as well as a violation of the skin barrier and immune imbalance. In the literature of recent years, an association in clinical practice between PS and atopic diseases (atopic dermatitis, bronchial asthma, allergic rhinitis) has been increasingly reported. As a result of...	pmid:36136950 doi:10.33029/0042-8833-2022-91-4-90-96	Thu, 22 Sep 2022 06:00:00 -0400
51	pubmed:36136990	A novel platform for the production of autologous human antibodies	Eleana Hatzidaki Panagiotis Apostolou Dimitrios Athanasios Ntanovasilis Ioannis Papatotiriou	At Research Genetic Cancer Centre, we have developed a novel method for the production of human monoclonal antibodies against a specific antigen of our choice (c-met) using isolated human blood cells. By mimicking nature, dendritic, CD4 and CD19 cells from healthy volunteers were driven towards Th2 immunity. Cell activation was succeeded by a cytokine cocktail, and IgG production was promoted by IgG class switching factors. IgG secretion was determined using both enzyme linked immunosorbent...	pmid:36136990 doi:10.1097/CAD.0000000000001380	Thu, 22 Sep 2022 06:00:00 -0400
52	pubmed:36136993	Response to osimertinib plus trametinib in a heavily treated epidermal growth factor receptor (EGFR)-positive NSCLC harboring a rare, acquired rapidly accelerated fibrosarcoma B-type (BRAF) p.D594N mutation: a case report	Sixiang Li Xinqing Lin Shiyong Sun Shiyue Li Chengzhi Zhou	Heterogeneity in the acquired genetic cause of osimertinib resistance leads to difficulties in understanding and addressing molecular mechanisms of resistance in clinical practice. Recent studies and clinical cases established that altered BRAF could drive osimertinib resistance in an EGFR-independent manner. Herein, we present a case in which an EGFR-positive, MET-amplified nonsmall cell lung cancer (NSCLC) patient acquired BRAF p.D594N mutation on third-line osimertinib plus crizotinib and...	pmid:36136993 doi:10.1097/CAD.0000000000001367	Thu, 22 Sep 2022 06:00:00 -0400
53	pubmed:36137068	Comparative single-cell transcriptional atlases of Babesia species reveal conserved and species-specific expression profiles	Yasaman Rezvani Caroline D Keroack Brendan Elsworth Argenis Arriolas Marc-Jan Gubbels Manoj T Duraisingh Kourosh Zarringhalam	Babesia is a genus of apicomplexan parasites that infect red blood cells in vertebrate hosts. Pathology occurs during rapid replication cycles in the asexual blood stage of infection. Current knowledge of Babesia replication cycle progression and regulation is limited and relies mostly on comparative studies with related parasites. Due to limitations in synchronizing Babesia parasites, fine-scale time-course transcriptomic resources are not readily available. Single-cell transcriptomics provides...	pmid:36137068 doi:10.1371/journal.pbio.3001816	Thu, 22 Sep 2022 06:00:00 -0400