

single cell sequencing

NCT Number		Title	Authors	Description	Identifier	Dates
1	pubmed:36087501	Decoding the associations between cell functional states in head and neck cancer based on single-cell transcriptome	Huating Yuan Min Yan Xin Liang Wei Liu Shengyuan He Shangqin Sun Xinxin Zhang Yujia Lan	OBJECTIVES: Systematically identifying cancer cell functional states, especially their associations, is key to understanding the pathogenesis of cancers.	pmid:36087501 doi:10.1016/j.oraloncology.2022.106110	Sat, 10 Sep 2022 06:00:00 -0400
2	pubmed:36088346	P130cas-FAK interaction is essential for YAP-mediated radioresistance of non-small cell lung cancer	Jingduo Li Xiupeng Zhang Zaiyu Hou Siqi Cai Yingxue Guo Limei Sun Ailin Li Qingchang Li Enhua Wang Yuan Miao	Based on the RNA-sequencing data, previous studies revealed that extracellular matrix receptor interaction and focal adhesion signaling pathways were enriched in radioresistant non-small cell lung cancer (NSCLC) cell lines. As the principal members of these signaling pathways, recent studies showed that FAK controlled YAP's nuclear translocation and activation in response to mechanical activation. However, the underlying mechanisms are largely unknown. This study was designed to determine...	pmid:36088346 doi:10.1038/s41419-022-05224-7	Sat, 10 Sep 2022 06:00:00 -0400
3	pubmed:36088481	Single cell RNA sequencing confirms retinal microglia activation associated with early onset retinal degeneration	Asha Kumari Raul Ayala-Ramirez Juan Carlos Zenteno Kristyn Huffman Roman Sasik Radha Ayyagari Shyamanga Borooah	Mutations in the Membrane-type frizzled related protein (Mfrp) gene results in an early-onset retinal degeneration associated with retinitis pigmentosa, microphthalmia, optic disc drusen and foveal schisis. In the current study, a previously characterized mouse model of human retinal degeneration carrying homozygous c.498_499insC mutations in Mfrp (Mfrp ^(KI/KI)) was used. Patients carrying this mutation have retinal degeneration at an early age. The model demonstrates subretinal deposits and...	pmid:36088481 doi:10.1038/s41598-022-19351-w	Sat, 10 Sep 2022 06:00:00 -0400
4	pubmed:36088510	Shallow WGS of individual CTCs identifies actionable targets for informing treatment decisions in metastatic breast cancer	Daniel Fernandez-Garcia Georgios Nteliopoulos Robert K Hastings Amelia Rushton Karen Page Rebecca C Allsopp Bana Ambasager Kelly Gleason David S Guttery Simak Ali R Charles Coombes Jacqueline A Shaw	CONCLUSION: This combined analysis of CTCs and ctDNA may offer a new approach for monitoring of disease progression and to direct therapy in patients with advanced MBC, at a time when they are coming towards the end of other treatment options.	pmid:36088510 doi:10.1038/s41416-022-01962-9	Sat, 10 Sep 2022 06:00:00 -0400
5	pubmed:36088535	Genotype-phenotype mapping with polyominoes made from DNA origami tiles	Yannik Dreher Julius Fichtler Christoph Karfusehr Kevin Jahnke Yang Xin Adrian Keller Kerstin Göpfrich	The correlation between genetic information and characteristics of a living cell - its genotype and its phenotype - constitutes the basis of genetics. Here, we experimentally realize a primitive form of genotype-phenotype mapping with DNA origami. The DNA origami can polymerize into 2D lattices (phenotype) via blunt-end stacking facilitated by edge staples at the seam of the planar DNA origami. There are 80 binding positions for edge staples which allow to translate an 80-bit long binary code...	pmid:36088535 doi:10.1016/j.bpj.2022.09.006	Sun, 11 Sep 2022 06:00:00 -0400