high throughput screening

	NCT Number	Title	Authors	Description	Identifier	Dates
1	pubmed:36130656	Peritoneal Effluent MicroRNA Profile for detection of Encapsulating Peritoneal Sclerosis	Kun-Lin Wu Che-Yi Chou Hui-Yin Chang Chih-Hsun Wu An-Lun Li Chien-Lung Chen Jen-Chieh Tsai Yi-Fan Chan Chiung-Tong Chen Chin-Chung Tseng Jin-Bor Chen I-Kuan Wang Yu-Juei Hsu Shih-Hua Lin Chiu-Ching Huang Nianhan Ma	CONCLUSION: The model-based miRNA expressions in PD effluents may help determine the probability of EPS and provide further therapeutic opinion for EPS.	pmid:36130656 doi:10.1016/j.cca.2022.09.007	Wed, 21 Sep 2022 06:00:00 -0400
2	pubmed:36130864	Ultrahigh-Throughput Screening of an Artificial Metalloenzyme using Double Emulsions	Jaicy Vallapurackal Ariane Stucki Alexandria Deliz Liang Juliane Klehr Petra S Dittrich Thomas R Ward	The potential for ultrahigh-throughput compartmentalization renders droplet microfluidics an attractive tool for the directed evolution of enzymes. Importantly, it ensures maintenance of the phenotype-genotype linkage throughout optimization, enabling reliable identification of improved mutants. The full potential of droplet microfluidics remains unexplored, however, as droplet sorting often relies on low-throughput, custom-made devices that typically only allow simultaneous analysis of two...	pmid:36130864 doi:10.1002/anie.202207328	Wed, 21 Sep 2022 06:00:00 -0400
3	pubmed:36131323	An integrated microfluidics platform with high-throughput single-cell cloning array and concentration gradient generator for efficient cancer drug effect screening	Biao Wang Bang-Shun He Xiao-Lan Ruan Jiang Zhu Rui Hu Jie Wang Ying Li Yun-Huang Yang Mai-Li Liu	CONCLUSION: This microfluidics-based "SMART" platform allows high-throughput single-cell capture and culture, dynamic drug-gradient treatment and cell response monitoring, which represents a new approach to efficiently investigate anticancer drug effects and should benefit drug discovery for leukemia and other cancers.	pmid:36131323 doi:10.1186/s40779-022-00409-9	Wed, 21 Sep 2022 06:00:00 -0400
4	pubmed:36132363	Label-free sensing of virus-like particles below the sub-diffraction limit by wide-field photon state parametric imaging of a gold nanodot array	Xiao Jin Heng Zhang Bin Ni Weiping Liu Lianping Hou John H Marsh Shengwei Ye Xiao Sun Xiaofeng Li Shanhu Li Lei Dong Jamie Jiangmin Hou Ming Sun Bin Xu Jichuan Xiong Xuefeng Liu	A parallel four-quadrant sensing method utilizing a specially designed gold nanodot array is created for sensing virus-like particles with a sub-diffraction limit size (100 nm) in a wide-field image. Direct label-free sensing of viruses using multiple four-quadrant sensing channels in parallel in a wide-field view enables the possibility of high-throughput onsite screening of viruses.	pmid:36132363 pmc:PMC9419464 doi:10.1039/d1na00603g	Thu, 22 Sep 2022 06:00:00 -0400

	NCT Number	Title	Authors	Description	Identifier	Dates
5	pubmed:36132708	Screening of miRNAs in White Blood Cell as a Radiation Biomarkers for Rapid Assessment of Acute Radiation Injury	Jiaxun Li Zhefan Shen Wei Chen Zhenlan Feng Lan Fang Jianpeng Zhao Cong Liu Jicong Du Ying Cheng	Accidental radiation exposure is a threat to human health that necessitates effective clinical diagnosis. Suitable biomarkers are urgently needed for early assessment of exposure dose. Existing technologies being used to assess the extent of radiation have notable limitations. As a radiation biomarker, miRNA has the advantages of simple detection and high throughput. In this study, we screened for miRNAs with dose and time dependent responses in peripheral blood leukocytes via miRNA sequencing...	pmid:36132708 pmc:PMC9483971 doi:10.1177/15593258221123679	Thu, 22 Sep 2022 06:00:00 -0400
6	pubmed:36133441	Predictive high-throughput screening of PEGylated lipids in oligonucleotide-loaded lipid nanoparticles for neuronal gene silencing	Apoorva Sarode Yuchen Fan Amy E Byrnes Michal Hammel Greg L Hura Yige Fu Ponien Kou Chloe Hu Flora I Hinz Jasmine Roberts Stefan G Koenig Karthik Nagapudi Casper C Hoogenraad Tao Chen Dennis Leung Chun-Wan Yen	Lipid nanoparticles (LNPs) are gaining traction in the field of nucleic acid delivery following the success of two mRNA vaccines against COVID-19. As one of the constituent lipids on LNP surfaces, PEGylated lipids (PEG-lipids) play an important role in defining LNP physicochemical properties and biological interactions. Previous studies indicate that LNP performance is modulated by tuning PEG-lipid parameters including PEG size and architecture, carbon tail type and length, as well as the...	pmid:36133441 pmc:PMC9417559 doi:10.1039/d1na00712b	Thu, 22 Sep 2022 06:00:00 -0400
7	pubmed:36136315	A High-Throughput Ion Mobility Spectrometry-Mass Spectrometry Screening Method for Opioid Profiling	Karen E Butler Erin S Baker	In 2017, the United States Department of Health and Human Services declared the widespread misuse and abuse of prescription and illicit opioids an epidemic. However, this epidemic dates back to the 1990s when opioids were extensively prescribed for pain management. Currently, opioids are still recommended for pain management, and given their abuse potential, rapid screening is imperative for patient treatment. Of particular importance is assessing pain management patient compliance, where...	pmid:36136315 doi:10.1021/jasms.2c00186	Thu, 22 Sep 2022 06:00:00 -0400
8	pubmed:36136814	In Vitro Screening Method for Characterization of Macrophage Activation Responses	Brandon W Lewis Sonika Patial Yogesh Saini	Macrophage activation refers to the enhanced functionality of macrophages in response to endogenous or exogenous stimuli. Due to the existence of limitless stimuli and a multitude of receptors on macrophage surfaces, the nature of activation (or acquired functioning) can be specific to the encountering stimulus. This article describes a macrophage-activation screening platform in a 96-well format. The methodology involves the generation of bone marrow-derived macrophages, their activation into...	pmid:36136814 doi:10.3390/mps5050068	Thu, 22 Sep 2022 06:00:00 -0400