

high throughput screening

NCT Number		Title	Authors	Description	Identifier	Dates
1	pubmed:36096284	Multi-dose Formulation Development for a Quadrivalent Human Papillomavirus Virus-Like Particle-Based Vaccine: Part I- Screening of Preservative Combinations	Kaushal Jerajani Ying Wan Ozan S Kumru Swathi R Pullagurla Prashant Kumar Nitya Sharma Oluwadara Ogun Shweta Mapari Sarah Brendle Neil D Christensen Saurabh Batwal Mustafa Mahedvi Harish Rao Vikas Dogar Rahul Chandrasekharan Umesh Shaligram Sangeeta B Joshi David B Volkin	The development of multi-dose, subunit vaccine formulations can be challenging since antimicrobial preservatives (APs) often destabilize protein antigens. In this work, we evaluated Human Papillomavirus (HPV) Virus-Like Particles (VLPs) to determine if combining different APs used in approved parenteral products, each at lower concentrations than used alone, would maintain both antimicrobial effectiveness and antigen stability. To identify promising AP combinations, two different screening...	pmid:36096284 doi:10.1016/j.xphs.2022.09.001	Mon, 12 Sep 2022 06:00:00 -0400
2	pubmed:36097012	Kinetic compartmentalization by unnatural reaction for itaconate production	Dae-Yeol Ye Myung Hyun Noh Jo Hyun Moon Alfonsina Milito Minsun Kim Jeong Wook Lee Jae-Seong Yang Gyoo Yeol Jung	Physical compartmentalization of metabolism using membranous organelles in eukaryotes is helpful for chemical biosynthesis to ensure the availability of substrates from competitive metabolic reactions. Bacterial hosts lack such a membranous system, which is one of the major limitations for efficient metabolic engineering. Here, we employ kinetic compartmentalization with the introduction of an unnatural enzymatic reaction by an engineered enzyme as an alternative strategy to enable substrate...	pmid:36097012 doi:10.1038/s41467-022-33033-1	Mon, 12 Sep 2022 06:00:00 -0400
3	pubmed:36097964	Point-of-Care Immunoassay Based on a Multipixel Dual-Channel Pressure Sensor Array with Visual Sensing Capability of Full-Color Switching and Reliable Electrical Signals	Lingting Huang Ruijin Zeng Jianhui Xu Dianping Tang	The point-of-care (POC) method with affordability and portability for the sensitive detection of biological substances is an emerging topic in rapid disease screening and personalized medicine. In this work, we demonstrated a diverse responsive platform based on a dual-channel pressure sensor (DCPS). The DCPS had a multilayer flexible architecture consisting of a photonic hydrogel with chromatic transitions and a piezoresistive pressure sensor as the electrical data transmission unit, both of...	pmid:36097964 doi:10.1021/acs.analchem.2c03393	Tue, 13 Sep 2022 06:00:00 -0400