(digital PCR) OR (dPCR)

	NCT Number	Title	Authors	Description	Identifier	Dates
1	pubmed:36055105	Crystal digital RT-PCR for the detection and quantification of norovirus and hepatitis A virus RNA in frozen raspberries	Émilie Larocque Valérie Lévesque Dominic Lambert	Berries are important vehicles for norovirus (NoV) and hepatitis A virus (HAV) foodborne outbreaks. Sensitive and quantitative detection of these viruses in food samples currently relies on RT-qPCR, but remains challenging due to their low concentration and the presence of RT-qPCR inhibitors. Moreover, quantification requires a standard curve. In this study, crystal digital RT-PCR (RT-cdPCR) assays were adapted from RT-qPCR sets of primers and probe currently used in our diagnostic laboratory...	pmid:36055105 doi:10.1016/j.ijfoodmicro.2022.109884	Fri, 02 Sep 2022 06:00:00 -0400
2	pubmed:36055398	Detection of EGFR gene with a droplet digital PCR chip integrating a double-layer glass reservoir	Haojun Yuan Wanlei Gao Jiawen Yin Kai Chen Ying Mu Qinghui Jin Chunping Jia Hui Cong Jiancheng Yu Jianlong Zhao	The lack of reliable and practical method for detecting rare hot mutation of epidermal growth factor receptor (EGFR) in circulating tumor DNA (ctDNA) for lung cancer has remained a challenge for general clinical application due to excess wild type DNA in clinical samples. In this study, we developed a droplet digital PCR (ddPCR) platform, integrating a PDMS chip and double-layer glass reservoir. The duplex T-junction droplet generators in PDMS chip can produce about one million uniform droplets...	pmid:36055398 doi:10.1016/j.ab.2022.114877	Fri, 02 Sep 2022 06:00:00 -0400
3	pubmed:36056439	Knockdown of CDC20 promotes adipogenesis of bone marrow-derived stem cells by modulating -catenin	Yangge Du Yunsong Liu Yongsheng Zhou Ping Zhang	CONCLUSIONS: Our findings showed that CDC20 knockdown enhanced adipogenesis of hBMSC and mBMSCs adipogenesis in vitro and in vivo. CDC20 regulates both adipogenesis and osteogenesis of BMSCs, and might lead to the development of new therapeutic targets for "fatty bone" and osteoporosis.	pmid:36056439 doi:10.1186/s13287-022-03062-0	Fri, 02 Sep 2022 06:00:00 -0400