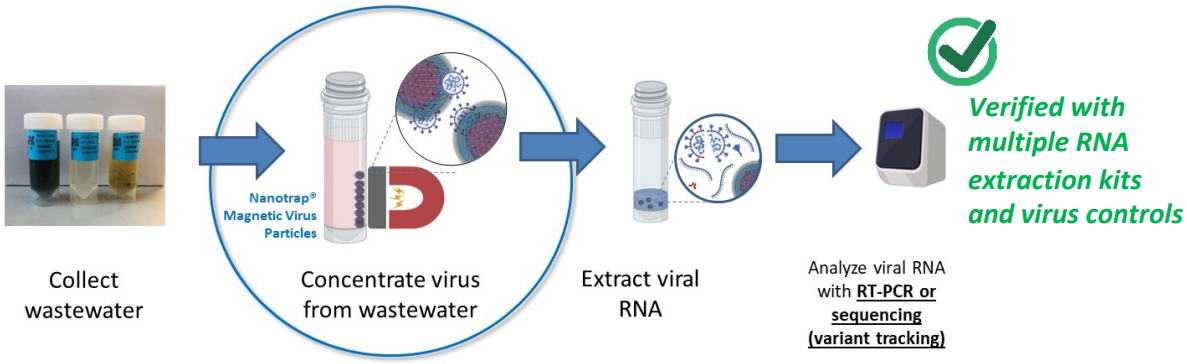
June 15, 2021

Nanotrap® Magnetic Virus Virus Particles for Rapid Capture of SARS-CoV-2

Robbie Barbero, Ph.D., Chief Business Officer, Ceres Nanosciences, rbarbero@ceresnano.com

Nanotrap® Magnetic Virus Particles capture and concentrate whole viruses from raw sewage, requiring **no filtration or centrifugation**.



Showcase: UCSD using Nanotrap® particles as part of on-campus wastewater surveillance to process over 9,500 samples from 121 samplers covering 350 buildings.

- This method enables processing of 96 samples (concentration to RT-PCR result) in 4.5 hours, which opened up capacity to expand coverage to San Diego K-12 schools and daycares and to the primary wastewater treatment plant of San Diego County.
- The method enables detection of 1 asymptomatic individual in a building of 415 residents.
- Samples can be sent for sequencing directly from this protocol.
- To date, nearly 85% (n=50) of the individual clinical cases on the UCSD campus have been preceded by positive wastewater samples. Of the missed individual cases, 7% (n=4) were missed because no wastewater sample was obtained the day of or the day prior to diagnostic detection.

Publication: https://journals.asm.org/doi/full/10.1128/mSystems.00045-21

Webinar: https://www.labroots.com/ms/webinar/implementation-high-throughput-wastewater-sars-cov-2-detection-method-providing-actionable-data-coun

High-throughput and medium-throughput methods in place in multiple locations

$8.2M NIH Contract in April 2021

With Emory, develop a wastewater COVID-19 surveillance framework in the metro-Atlanta area that is driven by public health authorities at the city, county and state level

Deploy high-throughput method to 15 Centers of Excellence.

To learn more, visit our poster on Tuesday, June 15 3PM-4PM ET
meet.google.com/jpm-kcxc-bcx

Or contact rbarbero@ceresnano.com
www.ceresnano.com

CERES NANO