



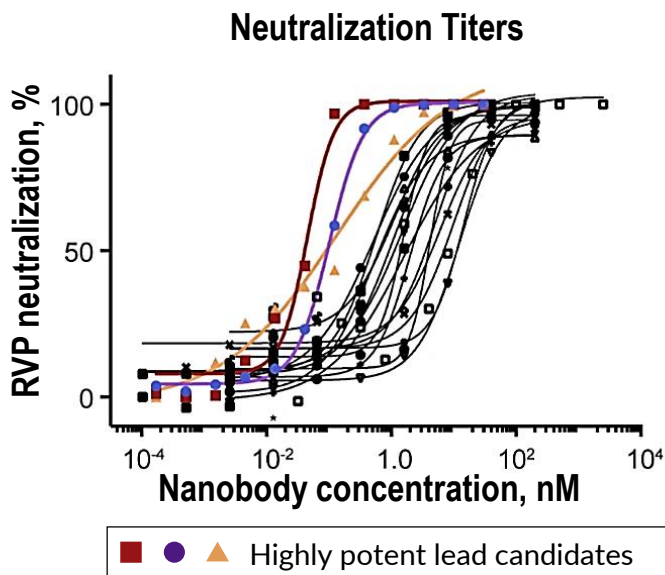
THE NEED

In response to the COVID-19 pandemic, researchers at the University of Pittsburgh raised a panel of high-affinity SARS-CoV-2 nanobodies. To develop a potent SARS-CoV-2 neutralizing cocktail for rapid development, the team required a safe and fast method to screen these molecules for virus neutralizing activity.

THE SOLUTION

SARS-CoV-2 Reporter Virus Particles Enable Rapid Selection of Potent Neutralizing Nanobodies

Integral Molecular's quality-controlled SARS-CoV-2 Reporter Virus Particles (RVPs) enabled safe (BSL-2), easy, and high-throughput assessment of SARS-CoV-2 nanobodies.



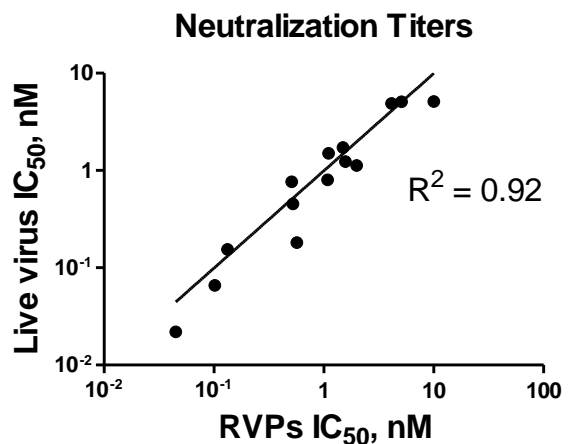
RVP-based neutralization assays enabled the selection of three nanobody candidates with exceptional neutralizing potency.

THE IMPACT

SARS-CoV-2 RVP Results Validated Using Live Virus

Fourteen of the most potent antibodies were assayed for neutralization using both luciferase RVPs and live infectious SARS-CoV-2 virus by plaque reduction neutralization testing (PRNT).

RVP neutralization assay results directly correlated with Plaque Reduction Neutralization Tests (PRNT) using live virus, with $R^2 = 0.92$.



Results are presented in [Xiang et al., 2020, BioRxiv](#).

Looking for more information? Contact us:

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