

Deciphering Biomarkers for acute respiratory distress syndrome by novel nanoproteomics approaches

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Abstract

Comprehensive profiling of humoral antibody response to SARS-CoV-2 proteins and monitoring immune response is essential in understanding host immunity and developing diagnostic tests and vaccines. To address this concern, we have developed a protein microarray, based on nucleic acids programmable array (NAPPA), to determine antibody responses in COVID19 patients. All our results demonstrate the utility of this array as a platform to determine the changes of antibody response in COVID-19 patients and animal models as well as to identify potential targets for diagnosis and treatment.