SARS-CoV-2 spike antigen-specific B cell and antibody responses COVID-19 convalescent males and females with or without post-covid condition

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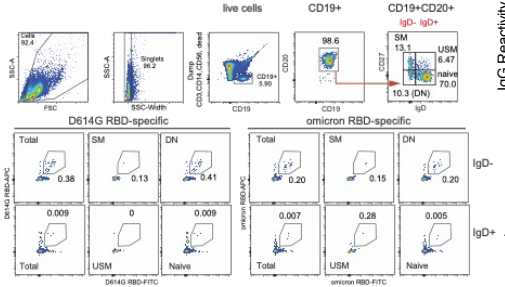
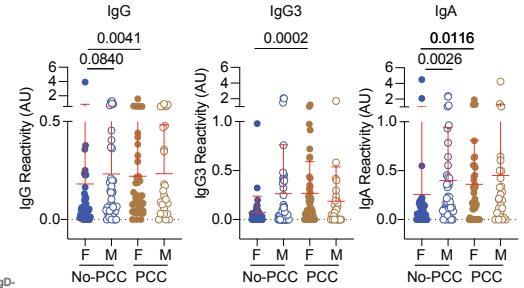
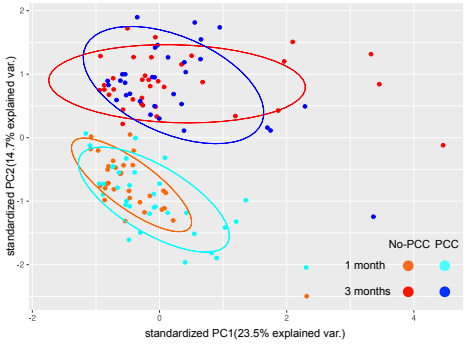
The wide spectrum of PCC symptoms that can affect different organs and the detection of viral components in tissues distant from lungs raise the possibility that PCC may be associated with aberrant immune response due to presence of viral antigens. Therefore, we studied B cell and antibody responses to the spike and nucleoprotein antigens in PCC patients who cleared mild SARS-CoV-2 infection **during the pre-vaccination COVID-19 pandemic period**.



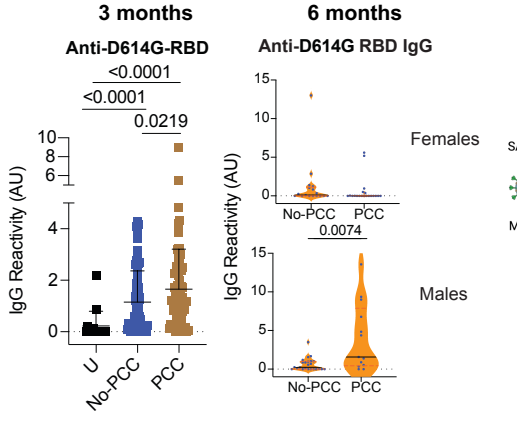
Anti-spike Ab are higher in females with PCC



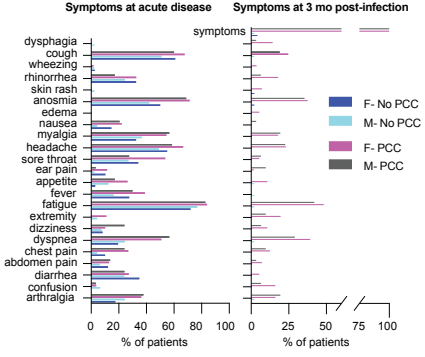
PCA analyses of clinical parameters, B cell reactivities and antibody responses

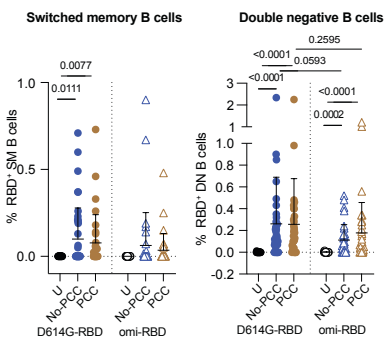


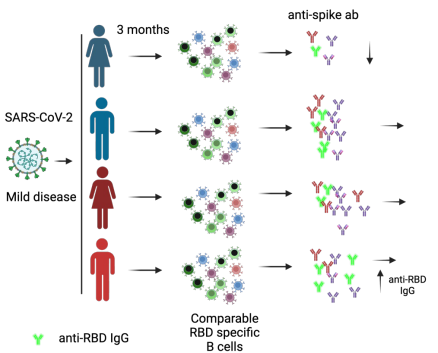
Anti-RBD Ab are higher at 3 and 6 months in PCC



At 3 mo post-infection memory B cell responses are comparable







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