



## Publication by BBMRI.at partner Med Uni Graz

## Lower Levels of ABO Anti-A and Anti-B of IgM, IgG and IgA Isotypes in the Serum but Not the Saliva of COVID-19 Convalescents

## August 2022

With support from Biobank Graz researchers at Med Uni Graz have established a COVID-19 Convalescent Cohort. Recently a new scientific paper on differences in antibody levels in saliva and serum was published presenting findings from this cohort.

Individuals with ABO type O, naturally possessing anti-A and anti-B antibodies in their serum, are underrepresented among patients infected with SARS-CoV-2 compared with healthy controls. The ABO antibodies might play a role in the viral transmission.

Whereas ABO antibodies in the saliva may not contribute to the pathogenesis of COVID-19, individual pre-existing high serum concentrations of anti-A/anti-B may have a protective effect against SARS-CoV-2 infection.

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More details on the "COVID-19 Convalescent Cohort" >> and other other cohorts from BBMRI.at partners >> (http://bbmri.at/biobank-cohorts).

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Published's Note MDIT stays routed with regard to jurisdictional chines in published maps and institutional aPG interes.	Keywardie SARS-CoV-2; COVID-19; ABO ble immunoglobulin A; saliva	od group; ABO antibodies; immune system;
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Copyright © 2022 by the authors,	1. Introduction In patients with concern itsu disease 2019	(COVID-19), a lower proportion of individu-
Lizeour MEPI, Baol, Sudaofand This attick is an open scores atticks distributed under the herma conditions of the Canadra Common Attituation (CC IP) Invest-(https:// aradimecentation.org/Sizeours/By/ 40/j.	als with ABD blood type O[1-5], accompanies reported when compared with healthy contre do not posses ABO antibodies in their a remu and anti-B antibodies. Since no interactions of our own preceding study [6], we hypothesiae with severe acute respiratory syndrome core	by a higher proportion of type AB [4–6], was k. Whereas individuals with blood type AB blood type O is associated with both anti-A the ABO and secretor types were observed in d that the variable susceptibility to infection

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