



BBMRI.at success story & publication

Collaboration of BBMRI.at biobanks and researchers leads to new findings concerning the relevance of sample pre-analytics in SARS-CoV-2 samples

Nov 22

In a collaboration project between MedUni Wien Biobank, Biobank Graz and researchers from several clinical departments of the Medical Universities of Graz and Vienna, short-term and longterm storage stabilities of SARS-CoV-2 antibodies were evaluated using samples from the Biobank's SARS-CoV-2 cohorts.

Moreover, the authors highlighted the problems with evaluating long-term storage effects, as the evaluation tool (the analytical test itself) also changes over time, which introduces additional analytical imprecision and leads to overestimation of the pre-analytical variability.

The paper was published in the top laboratory journal Clinical Chemistry and Laboratory Medicine (impact factor: 8.49):

Niedrist T, Kriegl L, Zurl CJ, Schmidt F, Perkmann-Nagele N, Mucher P, Repl M, Flieder I, Radakovics A, Sieghart D, Radner H, Aletaha D, Binder CJ, Gülly C, Krause R, Herrmann M, Wagner OF, Perkmann T, Haslacher H.

Preanalytical stability of SARS-CoV-2 anti-nucleocapsid antibodies. Clin Chem Lab Med. 2022 Nov 4. doi: 10.1515/cclm-2022-0875. Epub ahead of print. PMID: 36323338.

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Tobias Niedrist, Lisa Kriegi, Christoph J Zurl, Felix Schmidt, Nicole Perkmann-Patrick Mucher, Manuela Repl, Ines Flieder, Astrid Radakovics, Daniela Sieghr Helga Radner, Daniel Aletaha, Christoph J: Binder, Christian Gilly, Robert Kra Markus Hermann, Oswald F: Waner, Thomas Perkmann and Helmuth Hasiac

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Preanalytical stability of SARS-CoV-2 anti-nucleocapsid antibodies

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vore measured employing (Biche Aut SASS GoV.3). Results: Alter short sem did not exceed the short sem did not exceed the short sem increase with increase with increase dent of the biobank from with Accordingly, the sensitivi (p-0.008). However, con Spike protein assays, with apparent, suggest that apparent, suggest that are aplained by the analytic Ami-NC assay. Abstract Inti-nucleocapsid (NC) antibodies are pro-onse to SARS-CoV-2 infection. Therefore, they do for the detection of a previous infection, the case of seropervalence studies or during in of a novel is-vitro diagnostic test, samples itsend at <-70 < (short - and long-term) or 1-term) before analysis. This study almed to must of different testage conditions relevant Anti-nucleocapsid (m.) annuous ponse to SARS-CoV-2 infection. Ther ted for the detection of a previous (84 during short-term storage a long-term storage, a slight wot he ruled out. Thom work. eslacher, 85c versity of 'ria,

*Cerrer BA, De Vienna Phote

Introduction Graz, Austria. http Lisa Kriegt and R nucleocapsId (NC) [3]. Nevertheless, can be used as reliable markers for with SARS-CoV-2 [4]. Since those formed after vaccination with mRNA trick Mucher, Nanuela stoph J. Binder, Oswald F.

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