



Publications & Abstracts 2022

Publications

Transfusion-Transmitted Malaria and Mitigation Strategies in Nonendemic Regions

Niederhauser N, Galel Susan A.

Transfus Med Hemother 2022;49:205-216. <https://doi.org/10.1159/000525414>

Prevalence of anti-tick-borne encephalitis virus (TBEV) antibodies in Swiss blood donors in 2014-2015.

Ackermann-Gäumann R, **Eyer C**, Vock M, **Gowland P**, **Tinguely C**, Leib SL, Bori M, Buser A, **Fontana S**, Thierbach J, Weingand T, **Niederhauser C**.

Blood Transfus 2022; <https://doi.org/10.2450/2022.0099-22>

Antibody response and intra-host viral evolution after plasma therapy in COVID-19 patients pre-exposed or not to B-cell depleting agents

Gachoud D, Pillonel T, Tsilimidos G, Battolla D, Dumas D, Opota O, **Fontana S**, Vollenweider P, Manuel O, Greub G, Bertelli C, **Rufer N**

British J Hematol. 2022; 13:10.1111/bjh.18450. <https://doi.org/10.1111/bjh.18450>

Understanding the parameters guiding the best practice for treating B-cell-depleted patients with COVID-19 convalescent plasma therapy.

Gachoud D, Bertelli C, **Rufer N**.

British J Hematol. 2022, in press. <https://doi.org/10.1111/bjh.18540>

Accès au lait de donneuses en Suisse et création de la première banque de lait maternel romande au CHUV : enjeux et perspectives

Fischer-Fumeaux C, Barin J, **Prudent M**, C Richard, **Martin A**, Henriot I, Legardeur H, Kaech C, May H, **Vuignier J**, Tolsa J-F

Rev Med Suisse, 2022, 18, 59-63. <https://doi.org/10.53738/revmed.2022.18.764-65.59>

Antioxydants in single methylene-blue-treated plasma units cannot be used to predict pathogen inactivation treatment success

Lotens A, **Prudent M** and A. Rapaille

Vox Sanguinis, 2022, 117, 937-942. <https://doi.org/10.1111/vox.13273>

Effect of mercury on membrane proteins, anionic transport and cell morphology in human erythrocytes

Notariale R, **Längst E**, Perrone P, **Crettaz D**, **Prudent M** and Manna C

Cell Physiol Biochem, 2022, 56, 500-513. <https://doi.org/10.33594/000000572>

A Dynamic Constraint-based Modelling (DCBM) Approach with Alternative Metabolic Objective Functions Predicts The impact of Oxidative Stress

Yasemi M, **Prudent M**, Jolicoeur M

IFAC PapersOnLine, 2022, 55-20, 385-390. <https://doi.org/10.1016/j.ifacol.2022.09.125>

Two novel platelet biotinylation methods and their impact on stored platelet concentrates in a blood bank environment

Muret C, **Crettaz D**, **Martin A**, Aliotta A, Bertaggia Calderara D, Alberio L and **Prudent M**

Transfusion, 2022, 62, 2324-2333. <https://doi.org/10.1111/trf.17129>



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In Vitro-Transfusional Model for Red-Blood-Cell Study: the Advantage of Lowering Hematocrit

Längst E, Crettaz D, Delobel J, Renella R, **Bardyn M,** Turcatti G, **Tissot J-D,** and **Prudent M**
Blood Transfus, 2022, Early view. <https://doi.org/10.2450/2022.0086-22>

Evolution of Blood Safety in Switzerland over the Last 25 years for HIV, HCV, HBV and Treponema pallidum

Niederhauser C, Tinguely C, Stolz M, Vock M, Amar El Dusouqui S, **Gowland P.**
Viruses 2022, 14(12), 2611; <https://doi.org/10.3390/v14122611> - 23 Nov 2023

The Disease Burden of Delta and Omicron Variants of SARS-CoV-2 in a Predominantly Vaccinated and Healthy Cohort; Parham S Branca M, Büchi A, **Widmer N,** Tande A, **Gowland P,** and PoliVOV-19 study team. The Disease Burden of Delta and Omicron Variants of SARS-CoV-2 in a Predominantly Vaccinated and Healthy Cohort; Clinical Clin Microbiol Infect. 2022 Sep 3:S1198-743X(22)00456-6. <https://doi.org/10.1016/j.cmi.2022.08.019>. Online ahead of print.

Serosurveillance after a COVID-19 vaccine campaign in a Swiss police cohort. Sendi P, Thierstein M, **Widmer N,** Babongo Bosombo F, Büchi AE, Güntensperger D, Blum MR, Baldan R, **Tinguely C,** Gahl B, Heg D, Theel ES, Berbari E, Endimiani A, **Gowland P, Niederhauser C**
PoliCOV-19 study. Immun Inflamm and Disease, May 4th 2022, <https://doi.org/10.1002/iid3.640>

Presence of autoantibodies in serum does not impact the occurrence of immune checkpoint inhibitor-induced hepatitis in a prospective cohort of cancer patients.

Purde MT, Niederer R, Wagner NB, Diem S, Berner F, Ali OH, Hillmann D, Bergamin I, Joerger M, Risch M, **Niederhauser C,** Lenz TL, Früh M, Risch L, Semela D, Flatz L.
J Cancer Res Clin Oncol. 2022 Mar;148(3):647-656. <https://doi.org/10.1007/s00432-021-03870-6>
Epub 2021 Dec 7. Dec 7.



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Abstracts

CD8 T cell function and cross-reactivity explored by stepwise increased peptide-HLA versus TCR affinity

Baumgaertner P, Schmidt J, Costa-Nunes CM, Bordry N, Guillaume P, Luescher I, Speiser DE, **Rufer N**, Hebeisen M

Front Immunol, 2022;13:973986. <https://doi.org/10.3389/fimmu.2022.973986>

Alloimmunisation in patients treated with anti-CD38 (Daratumumab)

Lejon Crottet S, Still F, Münger E, Hustinx H, Niederhauser C, Henny C

Transfusion Medicine and Hemotherapy 2022;49 (Suppl. 1):62.

<https://www.karger.com/Article/Abstract/525886>

The Effect of the Donor's and Recipient's Sex on Red Blood Cells during Transfusion Simulations

Längst E, Crettaz D, Tissot JD, Prudent M

Poster Swisstransfusion 2022, Bern, Switzerland, Sept 2022

Buffy Coats pooling for the preparation of platelet concentrates: from "Train" to "Octopus"

Martin A, Dögnitz N, Hilger W, Feldmann J, Muhtari S, Aegerter P, Prudent M

Poster Swisstransfusion 2022, Bern, Switzerland, Sept 2022

Innovative Methods of Platelet Biotinylation and their Impact on Storage in a Blood Bank Environment

Muret C, Crettaz D, Martin A, Aliotta A, Bertaggia Calderara D, Alberio L, **Prudent M**

Oral Presentation, Swisstransfusion 2022, Bern, Switzerland, Sept 2022

Opening of the first milk bank in Romandy: a milk bank and blood bank collaboration

Martin A, Barin J, Richard C, Henriot I, Legardeur H, Grandbastien B, **Touati J, Vuignier J**, Tolsa J-F, Fischer Fumeaux C, **Prudent M**

Oral Presentation, Swisstransfusion 2022, Bern, Switzerland, Sept 2022

Protein Phosphorylation Capacity of RBCs during Transfusion Simulations

Längst E, Tissot JD, Prudent M

Poster AABB2022, On-line, Nov 2022

Transfusion 2022; 62:109A. <https://doi.org/10.1016/j.ifacol.2022.09.125>

New Method of Biotinylation of Platelet Concentrates in a Blood Bank Environment for the Study of Platelet Functions and Recirculation after Transfusion

Muret C, Martin A, Crettaz D, Aliotta A, Bertaggia Calderara D, Alberio L, **Prudent M**

Poster AABB2022, On-line, Nov 2022

Transfusion 2022; 62:176A. <https://doi.org/10.1111/trf.17129>

Ten years of donor *RHD* screening in Switzerland

Henny C, Engstroem C, Gassner C, **Stil F**, Gottschalk J, Sigurdardottir S, Frey B, **Niederhauser C, Hustinx H**, Meyer S, **Lejon Crottet S**

Vox Sanguinis. 2022;117(Suppl. 1):6–271. & ISBT virtuell Congress June 2022; Presentation: PA02-L03



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Characterization of two novel RH variant alleles

Kräuchi R, Stettler J, Lejon Crottet S, Niederhauser C, Waldvogel S, Levrat E, Henny C
Vox Sanguinis. 2022;117(Suppl. 1):6–271. & ISBT virtuell Congress June 2022; Poster: P205

Identification of the *RHD*01W.150* allele in several unresolved RH1 variant cases

Rihsling A, Kräuchi R, Lejon Crottet S, Niederhauser C, Henny C
Vox Sanguinis. 2022;117(Suppl. 1):6–271. & ISBT virtuell Congress June 2022; Poster: P222

Evaluation of SARS-COV-2 post-donation information transfusion risk.

Rihsling A, Jaspersen A, Gowland P, Widmer N, Stolz M, Tinguely C, Niederhauser C, Fontana S. Swisstransfusion 2022; Clin Lab. 2022;68: S1-S19 Abstract 8.

Food chain control and HEPATITIS E transfusion risk in Ticino. Fontana S, Ripellino P, Niederhauser C, Widmer N, Gowland P, Aprile M, Bihl F. Swisstransfusion 2022; Clin Lab. 2022;68: S1-S19 Abstract 18.

Investigation of an unusual Hepatitis E virus (HEV) outbreak among asymptomatic Swiss blood donors during January to April 2021.

P. Gowland, N. Widmer, M. Stolz, S. Amar, C. Bachofen, C. Niederhauser. ISBT virtuell Congress June 2022; Presentation: PA14-L04

Mutations in viral replication regulatory elements associated with elevated HBsAg levels and inconsistently detectable HBV DNA in untreated HBV-infected individuals.

Candotti D, Delcourt M, Vermeulen M, Kopacz A, Miletic M, Saville A, Grabarczyk, **Niederhauser C**, Laperche S. International HBV Meeting to be held September 18 – 22 2022 in Paris, Poster 118

Antibody response and viral evolution after plasma therapy in B-cell depleted COVID-19 patients

Rufer N, Pillonel T, Tsilimidos G, Battolla D, Dumas D, Opota O, Fontana S, Vollenweider P, Manuel O, Greub G, Bertelli C, Gachoud D
Swisstransfusion, Bern, 01.09-02.09.2022
Poster presentation

Why do many first time donors not come back? Online survey among lapsing first time donors

Abächerli C
Swisstransfusion, Bern, 01.09-02.09.2022
Poster presentation

Prozessverbesserung bei der Herstellung von Thrombozytenkonzentraten aus gepoolten Buffy Coats

Muhtari S, Dögnitz N, Wicki A
Swisstransfusion, Bern, 01.09-02.09.2022
Poster presentation