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Publications & Abstracts 2023

Publications

Do quantitative levels of antispike-IgG antibodies aid in predicting protection from SARS-CoV-2 infection? Results from a longitudinal study in a police cohort. Sendi P, **Widmer N**, Branca M, Thierstein M, Büchi AE, Güntensperger D, Blum MR, Baldan R, **Tinguely C**, Heg D, Theel ES, Berbari E, Tande AJ, Endimiani A, **Gowland P**, **Niederhauser C**; PoliCOV-19 study J Med Virol. 2023 Jul;95(7): e28904. <https://doi.org/10.1002/jmv.28904>

Neuropathies related to hepatitis E virus infection: A prospective, matched case–control study. Ripellino R, Lascano AM, Scheidegger O, Schilg-Hafer L, Schreiner B, Tsouni P, Vicino A, Peyer AK, Humm A, Décard BF, Pianezzi E, Zezza G, Sparasci D, Hundsberger T, Dietmann A, Jung H, Kuntzer T, Wilder-Smith E, Martinetti-Lucchini G, Petrini O, **Fontana S**, **Gowland P**, **Niederhauser C**, Gobbi C. European Journal of Neurology. <https://doi.org/10.1111/ene.16030>

Versorgung von Patienten mit seltenen Blutgruppen (Prise en charge des patients présentant des groupes sanguins rares Blanc C, Mürger S, **Lejon Crottet S**, **Still F**. Labmag 8-9 / 2023; 213-218.

Epidemiology of HEV Infection in Blood Donors in Southern Switzerland. **Fontana S**, Ripellino P, **Niederhauser C**, **Widmer N**, **Gowland P**, Petrini O, Aprile M, Merlani G and Bihl F. Microorganisms 2023, 11, 2375. <https://doi.org/10.3390/microorganisms11102375>

Fetal RHD Screening in RH1 Negative Pregnant Women: Experience in Switzerland **Schimanski B**, **Kräuchi R**, **Stettler J**, **Lejon Crottet S**, **Niederhauser C**, Banch Clausen F, **Fontana S**, Hodel M, Amylidi-Mohr S, Raio L, Abbal C and Henny C. Biomedicines 2023, 11, 2646. <https://doi.org/10.3390/biomedicines11102646>

"Don't add fuel to the fire"- Hyperhemolysis Syndrome in a pregnant woman with compound Sick cell disease/ β 0-thalassemia - Case report and review of the literature **Rihsling A**, Simeunovic H, Sanchez S, **Henny C**, **Lejon Crottet S**, Mansouri Teleghani B, Daskalakis M, Müller M, Raio L, Rovó A.. Acta Haematol. 2023 Oct 13. <https://doi.org/10.1159/000533776> Epub ahead of print. PMID: 37839398.

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, 2023, 21, 277-288. <https://doi.org/10.2450/2022.0086-22>

The Effect of the Donor's and Recipient's Sex on Red Blood Cells Evaluated Using Transfusion Simulations **Längst E**, **Crettaz D**, **Tissot J-D** and **Prudent M*** Cells, 2023, 12, 1454, 1-14. <https://doi.org/10.3390/cells12111454>

Phosphoproteomics and Morphology of Stored Human Red Blood Cells Treated by Protein-Tyrosine-Phosphatases Inhibitor **Bardyn M**, **Crettaz D**, Rappaz B, Hamelin R, Armand F, **Tissot J-D**, Turcatti G, and **Prudent M** Blood Advances, 2023, On-line, <https://doi.org/10.1182/bloodadvances.2023009964>



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Neoantigen-specific CD8 T cells with high structural avidity preferentially reside in and eliminate tumors.

Schmidt J, Chiffelle J, Perez MAS, Magnin M, Bobisse S, Arnaud M, Genolet R, Cesbron J, Barras D, Navarro Rodrigo B, Benedetti F, Michel A, Queiroz L, Baumgaertner P, Guillaume P, Hebeisen M, Michielin O, Nguyen-Ngoc T, Huber F, Irving M, Tissot-Renaud S, Stevenson BJ, Rusakiewicz S, Dangaj Laniti D, Bassani-Sternberg M, **Rufer N**, Gfeller D, Kandalaft LE, Speiser DE, Zoete V, Coukos G, Harari A.

Nat Commun. 2023 Jun 6;14(1):3188. <https://doi.org/10.1038/s41467-023-38946-z>

Overall avidity declines in TCR repertoires during latent CMV but not EBV infection.

Couturaud B, Doix B, Carretero-Iglesia L, Allard M, Pradervand S, Hebeisen M, **Rufer N**.
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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**.
Br J Haematol. 2023 Jan;200(2):e25-e27. <https://doi.org/10.1111/bjh.18540> Epub 2022 Nov 10.

Successful outcome of pregnancy post-allogeneic stem cell transplant despite severe RH1 alloimmunization: A case report.

Gavillet M, Rufer N, Grandoni F, Rizzi M, Vulliemoz N, Baud D, Alberio L, **Canellini G**, Legardeur H.
Br J Haematol. 2023 May;201(3):581-584. <https://doi.org/10.1111/bjh.18741> Epub 2023 Mar 14.

Inborn errors of type I interferon immunity in patients with symptomatic acute hepatitis E.

Saadat A, Gouttenoire J, Ripellino P, Semela D, Amar S, Frey BM, **Fontana S**, Mdawar-Bailly E, Moradpour D, Fellay J, Fraga M; HEV Human Genetics Collaborators: Badini G, Bergamin I, Bernsmeier C, Clerc O, Deibel A, **Eichler K**, Friedrich N, Sinnreich M F, **Gagliarducci E, Gavillet M**, Meylan D, Müllhaupt B, **Niederhauser C, Rufer N**, Schindler E, Zürcher M
Hepatology. 2023 Dec 8. <https://doi.org/10.1097/HEP.0000000000000701> Online ahead of print.



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Neuropathies related to Hepatitis E virus infection in Switzerland: A prospective, matched case-control study. Ripellino P, Lascano AM, Schilg-Hafer L, Scheidegger O, Schreiner B, Tsouni P, Vicino A, Peyer A, Humm A, Décard BF, Pianezzi E, Zezza G, Sparasci D, Hundberger T, Dietmann A, Jung H, Kuntzer T, Wilder-Smith E, Martinetti-Lucchini G, **Fontana S, Niederhauser C, Gobbi C.** 9th Congress of the European Academy of Neurology, 2023 Budapest

Immune events preceding neuralgic amyotrophy. Sparasci D, Schilg-Hafer L, Schreiner B, Scheidegger O, Peyer A, Lascano AM, Vicino A, Décard BF, Tsouni P, Humm A, Pianezzi E, Zezzi G, Hundberger T, Dietmann A, Jung H, Kuntzer T, Wilder-Smith E, Martinetti-Lucchini G, **Fontana S, Niederhauser C, Gobbi C, Ripellino P.** Peripheral Nerve Society Annual Meeting, 2023 Copenhagen

Analysis of Routine Specificity Data of Roche Diagnostics Infectious Disease Screening Assays for HIV, HBV, HCV, HTLV, Syphilis and Chagas in 6 Blood Screening Centres. Pistorius C, Pietersen N, Cable R, **Tinguely C, Niederhauser C, Majchrzak M, Arriaga G, Guillet M.** ISBT 2023, 18–21 November, Cape Town

Identification of Three Novel ABO Blood Group Alleles; Lejon Crottet S, Kräuchi R, Niederhauser C, Rüfli T, Mihm B, Levrat E and Henny C, ISBT 2023 Göteborg

sCD38: A soluble protein for mitigation of therapeutic anti-CD38 in the indirect antiglobulin test; Lejon Crottet S, Locher N, Caesar A, Feuerhahn S and Niederhauser C, Swisstransfusion 2023

Implementation of Erytra automated analyser for Blood Group Typing in a Blood Donor Setting: Experience and first results. Tinguely C., Gfeller B., Still F., Lejon Crottet S., Niederhauser C ISBT 2023 Göteborg & Swisstransfusion 2023 als Poster

Prevalence of acute Hepatitis E virus infections in Swiss Blood Donations 2018-2020 **Niederhauser C, Gowland P, Widmer N,** Amar El Dusouqui S, Mattle M, Gottschalk J, Frey BM. Abstract presented at 33rd Regional Congress of the ISBT, Gothenburg, Sweden, 2023

Anti-SARS-CoV-2 antibody development during the COVID-19 pandemic in Swiss blood donors. Gowland P, Widmer N, Tinguely C, Fontana S, Pehlic V, Thierbach J, Waldvogel Abramowski S, Züger M, **Niederhauser C.** Abstract presented at 33rd Regional Congress of the ISBT, Gothenburg, Sweden, 2023 and Swisstransfusion Kongress 2023. Rorschach

Two novel alleles harboring a deletion in the KEL and RH blood group system C Henny, R Kräuchi, C Niederhauser, M Gavillet, T Gleich-Nagel, S Lejon Crottet. Abstract presented at 33rd Regional Congress of the ISBT, Gothenburg, Sweden, 2023

Blood group genotyping in donors of African descent. Kräuchi R, Lejon Crottet S, Niederhauser C, Infanti L, T Rüfli T, **Henny C** Abstract presented at 33rd Regional Congress of the ISBT, Gothenburg, Sweden, 2023

Routine testing for RHD*01W.1, RHD*01W.2 and RHD*01.W3 subtype alleles is dispensable in Switzerland. Schimanski B, Kräuchi R, Lejon Crottet S, Niederhauser C and Henny C Abstract presented at 33rd Regional Congress of the ISBT, Gothenburg, Sweden, 2023



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Fetal RHD Screening in RH1 negative pregnant women: Experience in Switzerland Kräuchi R, Schimanski B, Lejon Crottet S, Niederhauser C, Hodel M, Amylidi S, Raio L and Henny C
Abstract presented at 33rd Regional Congress of the ISBT, Gothenburg, Sweden, 2023

Dépistage en routine du VHE RNA depuis octobre 2018 en Suisse. Niederhauser C, Gowland P, Widmer N, Amar El Dussouqui S, Mattle M, Gottschalk J, Frey BM. Transfusion Clinique et Biologique Novembre 2023 SFTS, L15-3, page 516.

Validation data of a hypoxic red blood cell processing and storage system

Martin A, Crettaz D, Bergeron P, Walicka-Philippo I, **Prudent M**

Poster, ISBT 2023, Gothenburg, Sweden, June 2023

Vox Sanguinis, 2023, 118(Suppl 1), P148. <https://doi.org/10.1111/vox.13433>

Discrimination of agonists-stimulated platelet phenotypes depending on pathogen inactivation and storage temperature in a blood bank

Muret C, Crettaz D, Alberio L, **Prudent M**

Poster International Society of Thrombosis and Hemostasis (ISTH) 2023, Montreal, Canada, June 2023

Optimization of the pooling time during the preparation of platelet concentrates in octopus configuration with a new sterile multiple connection device

Martin A, Muhtari S, Feldmann J, Zehnder M, Benzoni M, **Prudent M**

Poster, DGTI 2023, Berlin, Germany, Sept. 2023

Evaluation d'un nouvel appareil à connexions stériles multiples pour le mélange des Buffy-Coats en configuration Octopus

Martin A, Muhtari S, Feldmann J, Zehnder M, Benzoni M, **Prudent M**

Poster, SFTS 2023, Toulouse, France, Nov. 2023

Analyses phosphoprotéomiques et fonctionnelles des plaquettes traitées par inactivation des pathogènes et conservées à froid ou à température ambiante

Muret C, Crettaz D, Alberio L, **Prudent M**

Oral presentation, SFTS 2023, Toulouse, France, Nov. 2023

Modulation du phosphoprotéome et morphologie des globules rouges stockés

Bardyn M, Crettaz D, Rappaz B, Hamelin R, Armand F, **Tissot J-D,** Turcatti G, **Prudent M**

Oral presentation, SFTS 2023, Toulouse, France, Nov. 2023

Specific TCR/CDR mutations positively or negatively modulate the functional efficacy of NY-ESO-1-redirected CD8 T cells in a mutually exclusive manner

Doix B, Tardivon D, Duong MM, Vincent K, Zoete V, Hebeisen M and **Rufer N**

4th International conference on lymphocyte engineering (ICLE), 12-14th September 2023, Munich, Germany



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Miscellaneous

Platelet activation phenotypes vary in function of pathogen inactivation and storage temperature

Muret C, Crettaz D, Alberio L, Prudent M

Oral Presentation, Swisstransfusion 2023, Rorschach, Switzerland, Sept. 2023

Validation data of a hypoxic red blood cell processing and storage system

Martin A, Crettaz D, Bergeron P, Walicka-Philippo I, Prudent M

Poster, Swisstransfusion 2023, Rorschach, Switzerland, Sept. 2023