



Publications & Abstracts 2020

Publications 2020

Assessing and mitigating the interference of ALX148, a novel CD47 blocking agent, in pretransfusion compatibility testing

Yeul Kim T, Sook Yoon M, **Hustinx H**, Sim J, Wan H. I., Kim H

Transfusion Volume 60, Issue 10; First published: 20 August 2020. <https://doi.org/10.1111/trf.16009>

A novel ABO allele with a 21-bp duplication identified in two unrelated European individuals with weak A expression

Jakobsen M.A, Hult A.K, Hellberg Å, **Lejon Crottet S**, Sprogøe U, Olsson M.L

Transfusion Medicine 2020;30(6). First published: 26 October 2020. <https://doi.org/10.1111/tme.12730>

Reduced RhD antigen expression caused by two novel RHD variant alleles

Stettler J, Lejon Crottet S, Still F, Graber J, Niederhauser C, Waldvogel S, Henny C

Transfusion. 2020 Apr;60(4):E7-E8. <https://doi.org/10.1111/trf.15714>

Transfusion-transmitted cytomegalovirus (TT-CMV): behaviour of cell-free virus during blood component processing - a study on the safety of labile blood components in Switzerland

Voruz S, **Gowland P**, Eyer C, **Widmer N, Abonnenc M, Prudent M**, Masouridi-Levrat S, Duchosal MA, **Niederhauser C**

Blood Transfus, 2020, 18, 446-453. <https://doi.org/10.2450/2020.0241-19>

Hypoxia and hypocapnia storage of γ -irradiated red cell concentrates.

Bardyn M, Crettaz D, Borlet M, Längst E, Martin A, **Abonnenc M, Tissot JD**, Dunham A, Yoshida T, **Prudent M**

Blood Transfus. 2020 Sep 18. <https://doi.org/10.2450/2020.0075-20> Online ahead of print.

PMID: 32955427

Restoration of Physiological Levels of Uric Acid and Ascorbic Acid Reroutes the Metabolism of Stored Red Blood Cells.

Bardyn M, Chen J, Dussiot M, **Crettaz D**, Schmid L, Längst E, Amireault P, **Tissot JD**, Jolicoeur M, **Prudent M**

Metabolites. 2020 May 29;10(6):226. <https://doi.org/10.3390/metabo10060226>

PMID: 32486030 Free PMC article.

What about platelet function in platelet concentrates?

Prudent M

Hämostaseologie, 2020, 40, 500-508. <https://doi.org/10.1055/a-1210-3229>

Antioxidant power measurement in platelet concentrates treated by two pathogen inactivation systems in different blood centers

Lotens A, **Abonnenc M**, Malvaux N, Schuhmacher A, **Prudent M** and Rapaille A

Vox Sanguinis, 2020, ahead of print. <https://doi.org/10.1111/vox.12979>

Sulfenylome analysis of pathogen-inactivated platelets reveals the presence of cysteine oxidation in integrin signaling pathway and cytoskeleton regulation

Sonego G, Le T-T M, **Crettaz D, Abonnenc M, Tissot J-D** and **Prudent M**

J Thrombosis and Haemostasis, 2020, ahead of print. <https://doi.org/10.1111/jth.15121>



IRB | TIR

Publications & Abstracts 2020

Oxygen in Red Blood Cell Concentrates: Influence of Donors' Characteristics and Blood Processing

Bardyn M, Martin A, **Dögnitz N**, **Abonnenc M**, Dunham A, Yoshida T and **Prudent M**
Front. Physiol. 2020, ahead of print. <https://doi.org/10.3389/fphys.2020.616457>

Transfusion medicine: Overtime paradigm changes and emerging paradoxes.

Garraud O, Vuk T, Lozano M, **Tissot JD**.
Transfus Clin Biol. 2020 Oct 6;27(4):262-7. <https://doi.org/10.1016/j.tracli.2020.10.001>
Online ahead of print. PMID: 33035654 Free PMC article.

Medical student education in transfusion medicine, part II: Moving forward to building up a "Know How" education program in transfusion medicine for under-graduate medical students.

Garraud O, Vuk T, Brand A, de Angelis V, Politis C, Haddad A, Vlaar APJ, Lozano M, Ertuğrul Örüç N, Laspina S, **Tissot JD**
Transfus Apher Sci. 2020 Jul 22:102879. <https://doi.org/10.1016/j.transci.2020.102879> Online ahead of print. PMID: 32718832

Blood, perceptions, resource and ownership: When transfusion illustrates the complexity.

Garraud O, Charlier P, **Tissot JD**
Transfus Clin Biol. 2020 Apr;27(2):91-95. <https://doi.org/10.1016/j.tracli.2020.01.001> Epub 2020 Jan 9.
PMID: 31982310

Erythroferrone as a sensitive biomarker to detect stimulation of erythropoiesis.

Ramirez Cuevas K, Schobinger C, Gottardo E, Voss SC, Kuuranne T, **Tissot JD**, Favrat B, Townsend N, Leuenberger N
Drug Test Anal. 2020 Feb;12(2):261-267. <https://doi.org/10.1002/dta.2720> Epub 2020 Jan 8.
PMID: 31655016 Clinical Trial.

The effects of intravenous iron supplementation on fatigue and general health in non-anemic blood donors with iron deficiency: a randomized placebo-controlled superiority trial

Keller P, von Känel R, Hincapié CA, da Costa BR, Jüni P, Erlanger TE, Andina N, **Niederhauser C**, Lämmle B, **Fontana S**
Sci Rep. 2020 Aug 26;10(1):14219. <https://doi.org/10.1038/s41598-020-71048-0>

Putting the spotlight on donation-related risks and donor safety – are we succeeding in protecting donors?

Mikkelsen C, Mori G, van Waldraven SM, Castrén J, Zahra S, MacLennan S, Siedel K, **Fontana S**, Veropalumbo E, Cannata L, Pupella S, Kvist M, Happel M, Korkalainen P, Wulff B, Fernandez-Sojo J, Eguizabal C, Urbano F, Vesga MA, Pozenel P, van Kraaij M, Bagge Hansen M, Slot E, Ullum H
Vox Sang. 2020 Oct 26. <https://doi.org/10.1111/vox.13014> Online ahead of print.

How donor selection criteria can be evaluated with limited scientific evidence: lessons learned from the TRANSPOSE project

Mikkelsen C, Mori G, van Walraven SM, Castrén J, Zahra S, MacLennan S, Seidel K, **Fontana S**, Veropalumbo E, Cannata L, Pupella S, Kvist M, Happel M, Korkalainen P, Chandrasekar A, Paulus U, Bokhorst A, Wulff B, Fernandez-Sojo J, Eguizabal C, Urbano F, Vesga MA, van Kraaij M, Merz EM, van den Hurk K, Bagge Hansen M, Slot E, Ullum H
Vox Sang. 2020 Nov 15. <https://doi.org/10.1111/vox.13028> Online ahead of print.

Perioperative care of children with sickle cell disease: A systematic review and clinical recommendations.

Schyrer F, Dolci M, Nydegger M, **Canellini G**, **Andreu-Ullrich H**, Joseph JM, Diezi M, Cachat F, Rizzi M, Renella R, et al.
Am J Hematol. 2020 Jan;95(1):78-96. <https://doi.org/10.1002/ajh.25626> Epub 2019 Oct 2



IRB | TIR

Publications & Abstracts 2020

[Hematology in the time of COVID-19].

Gavillet M, **Rufer N**, Grandoni F, Carr Klappert J, Zermatten MG, Cairoli A, **Canellini G**, Alberio L, Duchosal MA, Spertini O, Blum S. Gavillet M, et al.
Rev Med Suisse. 2020 Apr 29;16(N° 691-2):823-826. Rev Med Suisse. 2020. PMID: 32348044 French.

Miscellaneous

Clinical Characterisation of Eleven Lateral Flow Assays for Detection of COVID-19 Antibodies in a Population.

Rudolf F, Kaltenbach H-M, Linnik J, Ruf M-T, **Niederhauser C**, Nickel B, Gyax D, Savic M
medRxiv 2020.08.18.20177204. <https://doi.org/10.1101/2020.08.18.20177204>

Performance of an automated anti-SARS-CoV-2 immunoassay in pre-pandemic cohorts

Riester E, Krieter B, Findeisen P, Laimighofer M, Schoenfeld K, Laengin T, **Niederhauser C**
medRxiv 2020.08.07.20169987. <https://doi.org/10.1101/2020.08.07.20169987>

Initial characterisation of ELISA assays and the immune response of the clinically correlated SARS-CoV-2 biobank SERO-BL-COVID-19 collected during the pandemic onset in Switzerland

Kaltenbach H-M, Rudolf F, Linnik J, Deichmann J, Ruf T, Altamura R, Kapetanovic E, Mason D, Wagner B, Goetz T, Mundorff L, Stoll-Rudin K, Krebs C, Renz T, Hochueli T, Haymoz S, Hosch M, Periat N, Richert M, Sesia S, Paris D, Quinto C B, Probst-Hensch N, **Niederhauser C**, Reddy S, Nickel B, Savic M
medRxiv 2020.07.05.20145888. <https://doi.org/10.1101/2020.07.05.20145888>

Platelet lesions with pathogen inactivation technologies: focus on oxidation and quality control **Prudent M**

Knowledge Infusion seminar, Canadian Blood Services, Ottawa, Canada, July 2020
(Virtual invited talk)

"LE DON DANS LE SANG", UN LIVRE DE JEAN-DANIEL TISSOT & PHILIPPE SCHNEIDER

Publication : 23 octobre 2020

<http://lagrandradio.fr/actualites-en-gironde/livres/3206-le-don-dans-le-sang-un-livre-de-jean-daniel-tissot-philippe-schneider-2020.html>

Abstracts 2020

AABB 2020, Virtual Congress

In Vitro Transfusion Model to Study the Effect of the Donor's and Recipient's Sex on Red Blood Cells

Langst E, **Bardyn M**, **Tissot JD**, **Prudent M**
Transfusion, 60, 114A-115A

DGTI 2020, Virtual Congress

Severe anti K-alloimmunisation during pregnancy: Personalized treatment with immunoadsorption, intravenous immunoglobulin and Rituximab

Caprau A, Mueller M, Daskalakis M, Raio Bulgheroni L, **Hustinx H**, Zeerleder S, Mansouri Taleghani B
Transfus Med Hemother 2020;47:22.



IRB | TIR

Publications & Abstracts 2020

ESCMID 2020, Virtual Congress

Specificity of an automated Anti-SARS-CoV-2 immunoassay in COVID-19 prepandemic cohorts
Riester E, Krieter B, Findeisen P, Laimighofer M, Schoenfeld K, Laengin T, **Niederhauser C**,
ESCMID Conference on Coronavirus Disease, 23-25 September 2020 (ECCVID)

ISBT 2020, Virtual Congress

AN ANTIBODY AGAINST A NOVEL HIGH PREVALENCE ANTIGEN IN THE JMH BLOOD GROUP SYSTEM

Henny C, Thornton N, Laundry R, Borowski A, **Stettler J**, **Lejon Crottet S**, Daskalakis M, **Hustinx H**

A NOVEL SILENCING KEL*02 ALLELE IDENTIFIED IN A PATIENT WITH THE RARE K0 PHENOTYPE

Stettler J, **Lejon Crottet S**, **Still F**, **Graber J**, **von Arx C**, **Hustinx H**, **Henny C**

A NOVEL KEL SPLICE SITE SUBSTITUTION LEADS TO REDUCED KEL2 EXPRESSION

von Arx C, **Stettler J**, **Graber J**, **Lejon Crottet S**, **Hustinx H**, **Still F**, **Henny C**

DISRUPTED RUNX1 MOTIFS IN THE ABO GENE EXPLAIN SAMPLES WITH A3 AND B3 PHENOTYPES

Hult A K, Hellberg Å, Hosseini-Maaf B, Pisacka M, **Hustinx H**, **Lejon-Crottet S**, Olsson M L

EVALUATION OF THE ANALYTICAL SENSITIVITY OF COBAS® MPX FOR USE ON THE COBAS® 6800/8800 SYSTEMS

Stanley J, Stramer S, **Niederhauser C**, **Stolz M**, Schmidt M, Grimm K, Smith S, Luk K, Chaudhuri S, Galel S

IMPLEMENTATION OF COBAS 8100/8000 AUTOMATED WORKFLOW SERIES AND NEW INFECTIOUS DISEASE TESTING PLATFORM: EXPERIENCE AND FIRST RESULTS

Tinguely C, **Hotz M**, **Gowland P**, **Niederhauser C**

HEPATITIS E VIRUS (HEV) SEROPREVALENCE AND INCIDENCE IN SWISS SOLID-ORGAN AND HEMATOPOIETIC STEM CELL TRANSPLANT RECIPIENTS

Gowland P, **Widmer N**, Müllhaupt B, Schanz U, Amar S, Binet I, Elkrief L, Hirsch H, Hirzel C, Moradpour D, Müller N, Schaub S, Stirnimann G, **Stolz M**, Van Delden C, Vionnet J and **Niederhauser C**

HEPATITIS E PREVALENCE AND INCIDENCE IN SOUTHERN SWITZERLAND: THE POTENTIAL EFFECT OF THE FOOD CHAIN CONTROL ON TRANSFUSION SAFETY

Fontana S, **Niederhauser C**, **Aprile M**, **Widmer N**, **Borri M**, **Gowland P**, **Crivelli O**, **Belli F**, **Bihl F**

EVALUATION OF THE SPECIFICITY OF SIX COMMERCIALY-AVAILABLE SARS-COV-2 SCREENING IMMUNOASSAYS

Gowland P, **Widmer N**, **Tinguely C**, **Funez S**, **Suter-Riniker F**, **Niederhauser C**