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# Publications & Abstracts 2018

### Publications 2018

#### **Blood and Blood Components: From Similarities to Differences**

Garraud O, Tissot JD

Front. Med. 2018. <https://doi.org/10.3389/fmed.2018.00084>

#### **Transfusion-Transmitted Hepatitis B Virus: Minimizing the Risk**

Piljac Zegarac J, Niederhauser C

Infect. Disease Advisor 2018. <https://www.infectiousdiseaseadvisor.com/hepatitis-advisor/hepatitis-b-virus-transfusion-transmission/article/760339/>

#### **Transfusionsbedingte Reaktionen: Wie sinnvoll und kostspielig ist die Testung auf neue Infektionserreger?**

Niederhauser C

Praxis 2018;107(9–10):521–529. <https://doi.org/10.1024/1661-8157/a002967>

#### **Proteomics of Stored Red Blood Cell Membrane and Storage-Induced Microvesicles Reveals the Association of Flotillin-2 With Band 3 Complexes**

Prudent M, Delobel J, Hübner A, Benay C, Lion N, Tissot JD

Front. Physiol. 2018. <https://doi.org/10.3389/fphys.2018.00421>

#### **Transfusion and refusal: trials and tribulations**

Garraud O, Tissot JD

IJCTM 2018;6:15-20. <https://doi.org/10.2147/IJCTM.S150554>

#### **Vox Sanguinis International Forum on typing and matching strategies in patients on anti-CD38 monoclonal therapy: summery**

Hustinx H

Vox Sanguinis 2018. <https://doi.org/10.1111/vox.12653>

#### **Platelet Transfusion Induces Alloimmunization to D and Non-D Rhesus Antigens**

Reckhaus J, Jutzi M, Fontana S, Bacher VU, Vogt M, Daslakis M, Mansouri Taleghani B

Transfus Med Hemother. 2018;45(3):167-172. <https://doi.org/10.1159/000490122>

#### **Actualités et perspectives dans l'utilisation des produits issus du sang et leurs enjeux éthiques : une réflexion de la commission d'éthique de l'Institut national de la transfusion sanguine**

Garraud O, Cabaud JJ, Cartron JP, Ceccaldi J, Danic B, Jaulmes D, Mamzer MF, Laperche S,

Monseiller M, Petermann R, Peyrard T, Pottier R, Tissot JD, Thonier V, Hervé C

John Libbey Eurotext 2018;24(3):233-241. <https://doi.org/10.1684/hma.2018.1376>

#### **Low-Frequency Blood Group Antigens in Switzerland**

Gassner C, Degenhardt F, Meyer S, Vollmert C, Trost N, Neuenschwander K, Merki Y, Portmann C, Sigurdardottir S, Zorbas A, Engström C, Gottschalk J, Amar S, Waldvogel S, Rigal E, Tissot J-D,

Tinguely C, Mauvais S, Sarraj A, Bessero D, Stalder M, Infanti L, Buser A, Sigle J, Weingand T,

Castelli D, Braisch M, Thierbach J, Heer S, Schulzokio T, Krawczak M, Franke A, Frey B

Transfus Med Hemother. <https://doi.org/10.1159/000490714>

#### **Hepatitis E blood donor screening – More than a mere drop in the ocean?**

Muellhaupt B, Niederhauser C

J Hepatol. 2018. <https://doi.org/10.1016/j.jhep.2018.04.007>



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**Current Hepatitis E Virus seroprevalence in Swiss blood donors and apparent decline from 1997 to 2016**

**Niederhauser C, Widmer N, Hotz M, Tinguely C, Fontana S, Allemann G, Borri M, Infanti L, Sarraj A, Sigle J, Stalder M, Thierbach J, Waldvogel S, Weingand T, Züger M, Gowland P**  
Euro Surveill. 2018;23(35) <https://doi.org/10.2807/1560-7917.ES.2018.23.35.1700616>

**Clinical significance of antibodies to Antigens in the Scianna, Dombrock, Colton, Landsteiner-Weiner, Chido/Rodgers, H, Kx, Cromer, Gerbich, Knops, Indian and Ok blood group systems Lejon S**

Immunohematology 2018;34(3):103-108. <https://www.ncbi.nlm.nih.gov/pubmed/30295505>

**Generation of procoagulant collagen- and thrombin-activated platelets in platelet concentrates derived from buffy coat: the role of processing, pathogen inactivation, and storage**

Bertaglia Calderara D, **Crettaz D**, Aliotta A, Barelli S, **Tissot JD**, **Prudent M**, Alberio L  
Transfusion 2018;58(10):2395-2406. <https://doi.org/10.1111/trf.14883>

**How to mitigate the risk of inducing transfusion-associated adverse reactions**

Garraud O, Cognasse F, Laradi S, Hamzeh-Cognasse H, Peyrard T, **Tissot JD**, **Fontana S**  
Transfus Clin Biol. 2018;25(4):262-268. <https://doi.org/10.1016/j.tracli.2018.07.006>

**Plasma for direct therapeutic use, for today and tomorrow: A short critical overview.**

Garraud O, Aubron C, Ozier Y, Coppo P, **Tissot JD**  
Transfus Clin Biol. 2018 ;25(4):281-286. <https://doi.org/10.1016/j.tracli.2018.07.007>

**Quantification of stored red blood cell fluctuations by time-lapse holographic cell imaging**

Jaferzadeh K, Moon I, **Bardyn M**, **Prudent M**, **Tissot JD**, Rappaz B, Javidi B, Turcatti G, Marquet P  
Biomedical Optics Express 2018;9(10):4714-4729. <https://doi.org/10.1364/BOE.9.004714>

**Immuno-affinity Amperometric Detection of Bacterial Infections**

Zhu Y, Jovic M, Lesch A, Tissières Lovey L, **Prudent M**, Pick H, Girault H  
Angewandte Chemie Internat. Ed. 2018;57(45). <https://doi.org/10.1002/anie.201808666>

**Comparison of four commercial IgG-ELISA assays for the detection of Tick-borne Encephalitis Virus Antibodies**

Ackermann-Gäumann R, **Eyer C**, Leib SL, **Niederhauser C**  
Vector-Borne and Zoonotic Diseases 2018. <https://doi.org/10.1089/vbz.2018.2359>

**Editorial: Transfusion Medicine and Blood**

**Prudent M, Tissot JD, Fontana S, Niederhauser C**  
Front. Med. 2018. <https://www.frontiersin.org/articles/10.3389/fmed.2018.00355/full>

**Irreversible oxidations of platelet proteins after riboflavin-UVB pathogen inactivation**

**Sonego G, Abonnenc M, Crettaz D, Lions N, Tissot JD, Prudent M**  
Transfus Clin Biol. 2018. <https://doi.org/10.1016/j.tracli.2018.12.001>

**General overview of blood products in vitro quality: Processing and storage lesions**

**Abonnenc M, Tissot JD, Prudent M**  
Transfus Clin Biol. 2018;25(4): 269-275. <https://doi.org/10.1016/j.tracli.2018.08.162>



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**Red blood cell use in Switzerland: trends and demographic challenges**

Volken T, Buser A, Castelli D, **Fontana S**, Frey BM, Rüsches-Wolter I, Sarraj A, Sigle J, Thierbach J, Weingand T, Taleghani BM  
Blood Transfus. 2018;16(1): 73-82. <https://doi.org/10.2450/2016.0079-16>

**Somatic mosaicism of chromosome 1 at two different stages of ontogenetic development detected by Rh blood group discrepancies**

Dauber EM, Mayr WR, **Hustinx H**, Schönbacher M, Budde H, Legler TJ, König M, Haas OA, Fritsch G, Körmöczí GF  
Haematologica 2018. <https://doi.org/10.3324/haematol.2018.201293>

**Clinical significance of antibodies to Antigens in the Scianna, Dombrock, Colton, Landsteiner-Weiner, Chido/Rodgers, H, Kx, Cromer, Gerbich, Knops, Indian and Ok blood group systems**  
**Lejon S**

Immunohematology 2018;34(3): 103-108. <https://www.ncbi.nlm.nih.gov/pubmed/30295505>

**REASSESSING THE INFECTIOUS SAFETY OF HEPATITIS B VIRUS FOR BLOOD PRODUCTS IN SWITZERLAND**

Lampert R, Heer S, **Stolz M**, **Gowland P**, **Niederhauser C**, Henschler R  
Clin. Lab 7+8/2018, SVTM 2018

**EFFECT OF MIRASOL TREATMENT ON PHENOTYPE, METABOLIC AND AGGREGATION FUNCTIONS OF PLATELET CONCENTRATES**

**Abonnenc M**, **Crettaz D**, **Sonogo G**, **Prudent M**  
Clin. Lab 7+8/2018, SVTM 2018

**SATURATION OF OXYGEN IN RED BLOOD CELL CONCENTRATES AND ANAEROBIC STORAGE**

**Prudent M**, **Martin A**, **Bardyn M**, **Abonnenc M**, **Doegnitz N**, Dunham A, Yoshida T  
Clin. Lab 7+8/2018, SVTM 2018

**PERFORMANCE EVALUATIONS OF A NEW FLEXIBLE WB IN-LINE FILTER FOR REMOVAL OF LEUKOCYTES AND PLATELETS FROM WHOLE BLOOD UNITS**

**Abonnenc M**, **Crettaz D**, **Prudent M**, Aegerter P  
Clin. Lab 7+8/2018, SVTM 2018

**ANTI-HNA ANTIBODIES IN PLATELET APHERESIS DONORS WITH AND WITHOUT PRIOR IMMUNIZING EVENT**

Mihm B, Argast M, Infanti L, Buser A, **Fontana S**, Sigle J-P  
Clin. Lab 7+8/2018, SVTM 2018

**VALIDATION OF THE INTERCEPT BLOOD SYSTEM FOR PLASMA AT IRB SRK AG**

**Doegnitz N**, **Studer A**, **Wicki A**  
Clin. Lab 7+8/2018, SVTM 2018



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#### **ANTI-VERWEYST (ANTI-MNS9) ALLOANTIBODY CAUSING SEVERE NEONATAL HYPOREGENERATIVE ANEMIA AND THROMBOCYTOPENIA**

**Gleich T, Rufer N, Baud D, Turello R, Eggel-Hort B, Andreu H, Cannelini G**  
Clin. Lab 7+8/2018, SVTM 2018

#### **DGTI 2018, Lübeck, Germany**

##### **Details of the decision-making process used for implementing HEV NAT screening in Swiss blood donors**

**Niederhauser C, Gowland P, Widmer N, Fontana S, Stolz M**  
Transfus Med Hemother 2018;45(suppl.1): VS-6-5

##### **DaraEx: a new approach to solve the interference of Daratumumab in the indirect antiglobulin test**

**Lejon Crottet S, Lobsiger S, Hustinx H**  
Transfus Med Hemother 2018;45(suppl.1): PS-3A-1

##### **Validation of Grifols antisera for routine red blood cell phenotyping by comparative analysis**

**Gleich-Nagel T, Corisello C, Huber-Marcantonio D, Canellini G, Niederhauser C**  
Transfus Med Hemother 2018;45(suppl.1): PS-3A-2

##### **A safe screening algorithm for individual Nucleic Acid Testing (ID-NAT): 10 years of experience in a low endemic country**

**Niederhauser C, Gowland P, Stolz M**  
Transfus Med Hemother 2018;45(suppl.1): PS-4A-4

##### **Sequencing of a patient with an IN(LU) phenotype reveals a new KLF1 Allele**

**Stettler J, Lejon Crottet S, Hustinx H, Niederhauser C, Henny C**  
Transfus Med Hemother 2018;45(suppl.1): PS-5A-2

#### **ISBT 2018, Toronto, Canada**

##### **OXYGEN IN RED BLOOD CELL CONCENTRATES: INFLUENCE OF DONOR'S CHARACTERISTICS, LOCATION AND BLOOD PROCESSING**

**Prudent M, Martin A, Abonnenc M, Doegnitz N, Dunham A, Yoshida T**  
Vox Sanguinis 2018;113(suppl. 1): P-275

##### **COMPARISON STUDY OF THE NEWLY LAUNCHED ROCHE ELECSYS INFECTIOUS DISEASE PARAMETERS ON COBAS E 801 BLOOD DONOR SCREENING**

**Tinguely C, Hotz M, Niederhauser C**  
Vox Sanguinis 2018;113(suppl. 1): P-352

##### **AN ANTIBODY AGAINST A NOVEL HIGH INCIDENCE ANTIGEN IN THE INDIAN BLOOD GROUP SYSTEM**

**Henny C, Thornton N, Lejon Crottet S, Baglow I, Graber J, Niederhauser C, Hustinx H**  
Vox Sanguinis 2018;113(suppl. 1): P-485

##### **TWO CASES OF CAUCASION BOMBAY AND THREE CASES OF PARA-BOMBAY PHENOTYPE REVEALED FIVE NOVEL FUT1 ALLELES**

**Hustinx H, Stettler J, Henny C, Lejon Crottet S, Still F, Ollson ML, Storry J**  
Vox Sanguinis 2018;113(suppl. 1): P-529



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### Miscellaneous

**Compte rendu du cinquième séminaire d'éthique de l'Institut national de la transfusion sanguine : quelles relations interpersonnelles sont-elles convoquées aux différentes étapes de la chaîne transfusionnelle ?**

Garraud O, Bastard B, Bigey F, Bordessoule D, Ceccaldi J, Crespin R, Monsellier M, Pottier R, Thibert J.-B., **Tissot JD**, Vernant JP, Herve C

Report of the 5<sup>th</sup> ethical seminar of the French National Inst. Of Blood Transfusion 2018.

<https://doi.org/10.1016/j.jemep.2018.05.010>

### Chapters in books

**Atours et autour du sang**

**Tissot JD** Hervé C : Réflexion et recherches en éthique  
DALLOZ, 2018. ISBN : 978-2-2471-7605-2