

## Genetische Typisierung von Erythrozytenantigenen bei Blutspendern

- 1) Hoeltge GA, Domen RE, Rybicki LA, Schaffer PA.  
*Multiple red cell transfusions and alloimmunizations: experience with 6996 antibodies detected in a total of 159,262 patients from 1985 to 1993.*  
*Arch Pathol Lab Med* 1995;**119**:42-45.
- 2) Perreault J, Lavoie J, Painchaud P, Côté M, Constanzo-Yanez J, Côté R, Delage G, Gendron F, Dubuc S, Caron B, Lemieux R, St-Louis M.  
*Set-up and routine use of a database of 10,555 genotyped blood donors to facilitate the screening of compatible blood components for alloimmunized patients.*  
*Vox Sang.* 2009 Jul;**97**(1):61-8. Epub 2009 Mar 16.
- 3) Story JR.  
*New technologies to replace current blood typing reagents.*  
*Curr Opin Hematol* 2007;**14**:677-681.
- 4) Daniels G.  
*Human Blood Groups. 2nd ed. Oxford: Blackwell Science Ltd; 2002.*
- 5) Reid ME, Lomas-Francis C.  
*Blood group antigen factsbook. 2nd ed. San Diego: Academic Press;2003.*
- 6) Avent ND.  
*Blood groups: molecular genetic basis.*  
*In: Encyclopedia of the human genome, Vol A1034, pp 35-43. London: Nature Publishing Group;2003.*
- 7) Reid ME, Mohandas N. *Red blood cell blood group antigens: structure and function.*  
*Seminars in Hematology* 2004;**41**:93-117.
- 8) Lee S.  
*Molecular basis of the Kell blood group phenotypes.*  
*Vox Sang* 1998;**74**:58.
- 9) Flegel WA, Wagner FF.  
*Molecular genetics of RH.*  
*Vox Sang.* 2000;**78 Suppl 2**:109-15.
- 10) Daniels G, Poole J, de Silva M., Callaghan T, MacLennan S, Smith N.  
*The clinical significance of blood group antibodies.*  
*Transfusion Medicine*, 2002, 12, 287-295.
- 11) Reesink HW, Engelfriet CP, Schennach H, et al.  
*Donors with rare pheno (geno) type.*  
*Vox Sang* 2008;**95**:236-53.
- 12) Chapman JF, Elliott C, Knowles SM, Milkins CE, Poole GD.  
*Guidelines for compatibility procedures in blood transfusion laboratories.*  
*Transfusion Medicine* 2004, 14, 59-73.
- 13) Reid ME.  
*Overview of molecular methods in immunohematology.*  
*Transfusion* 2007;**47**:10S-16S.

- 14) Seltsam A, Wagner FF, Salama A, Flegel WA.  
*Antibodies to high-frequency antigens may decrease the quality of transfusion support: an observational study.*  
*Transfusion.* 2003 Nov;**43(11)**:1563-6.
- 15) Jungbauer C.  
*Molecular Bases and Genotyping for Rare Blood types.*  
*Transfus Med Hemother* 2009;**36**:213-218.
- 16) Wagner FF, Frohmajer A, Flegel WA.  
*RHD positive haplotypes in D negative Europeans.*  
*BMC Genet.* 2001;**2**:10. Epub 2001 Jul 16.
- 17) Flegel WA, von Zabern I, Wagner FF.  
*Six years' experience performing RHD genotyping to confirm D- red blood cell units in Germany for preventing anti-D immunizations.*  
*Transfusion.* 2009 Mar;**49(3)**:465-71.
- 18) Ceppellini R.  
*In: la Malattia Emolitica del Neonato. Milano, 1952.*
- 19) Li Q, Hou L, Guo ZH, Ye LY, Yue DQ, Zhu ZY.  
*Vox Sang.* 2009 Aug;**97(2)**:139-46.
- 20) Garratty G.  
*Do we need to be more concerned about weak D antigens?*  
*Transfusion* 2005;**45**:1547-1551.
- 21) Kumpel B.  
*Are weak D RBCs really immunogenic?*  
*Transfusion* 2006;**46**:1061-1062.
- 22) Lasalle-Williams M, Nuss R, Le T, Cole L, Hassell K, Murphy JR, Ambruso DR.  
*Extended red blood cell antigen matching for transfusions in sickle cell disease: a review of a 14-year experience from a single center (CME).*  
*Transfusion.* 2011 Aug;**51(8)**:1732-9.
- 23) Daniels G, van der Schoot CE, Gassner C, Olsson ML.  
*Report of the third international workshop on molecular blood group genotyping.*  
*Vox Sang.* 2009 May;**96(4)**:337-43. Epub 2009 Feb 10.
- 24) Veldhuisen B, van der Schoot CE, de Haas M.  
*Blood group genotyping: from patient to high-throughput donor screening.*  
*Vox Sang.* 2009 Oct;**97(3)**:198-206. Epub 2009 Jun 22.
- 25) Avent ND.  
*Large-scale blood group genotyping – clinical implications.*  
*Br J Haematol.* 2009 Jan;**144(1)**:3-13. Epub 2008 Oct 30.
- 26) Wu YY, Csako G.  
*Rapid and/or high-throughput genotyping for human red blood cell, platelet and leukocyte antigens, and forensic applications.*  
*Clin Chim Acta.* 2006 Jan;**363(1-2)**:165-76. Epub 2005 Sep 9.
- 27) Wagner FF, Bittner R, Döscher A, Petershofen EK, Müller TH.  
*Mid-throughput blood group phenotype prediction by pooled capillary electrophoresis.*  
*Transfus* 2007; **47S**: SP391

- 28) Tax MG, van der Schoot CE, van Doorn R, Douglas-Berger L, van Rhenen DJ, Maaskant-vanWijk PA. RHC and RHc genotyping in different ethnic groups. *Transfusion*. 2002 May;**42(5)**:634-44.
- 29) Jungbauer C, Hobel CM, Schwartz DW, Mayr WR. High-throughput multiplex PCR genotyping for 35 red blood cell antigens in blood donors. *Vox Sang*. 2012 Apr;**102(3)**:234-42.
- 30) Ficko T, Galvani V, Ruprecht R, Dovc T, Rozman P. Real-time PCR genotyping of human platelet alloantigens HPA-1, HPA-2, HPA-3 and HPA-5 is superior to the standard PCR-SSP method. *Transfus Med*. 2004 Dec;**14(6)**:425-32.
- 31) De Haas, van der Schoot CE, Beiboer SH, Freskens M, Cherroure G, Maaskant-Van Wijk PA. Red blood cell and platelet genotyping: from current practice to future high-throughput donor typing. *Transfus Med Hemother* 2006;**33**:260-266.
- 32) Ronaghi M, Karamohamed S, Pettersson B, Uhlén M, Nyrén P. Real-time DNA sequencing using detection of pyrophosphate release. *Anal Biochem*. 1996 Nov 1;**242(1)**:84-9.
- 33) Hashmi G, Shariff T, Zhang Y, Cristobal J, Chau C, Seul M, Vissavajjhala P, Baldwin C, Hue-Roye K, Charles-Pierre D, Lomas-Francis C, Reid ME. Determination of 24 minor red blood cell antigens for more than 2000 blood donors by high-throughput DNA analysis. *Transfusion*. 2007 Apr;**47(4)**:736-47. Erratum in: *Transfusion*. 2007 May;**47(5)**:952.
- 34) Avent ND, Martinez A, Flegel WA, Olsson ML, Scott ML, Nogués N, Písäcka M, Daniels G, van der Schoot E, Muñoz-Díaz E, Madgett TE, Storry JR, Beiboer SH, Maaskant-van Wijk PA, von Zabern I, Jiménez E, Tejedor D, López M, Camacho E, Cheroure G, Hacker A, Jinoch P, Svobodova I, de Haas M. The BloodGen project: toward mass-scale comprehensive genotyping of blood donors in the European Union and beyond. *Transfusion*. 2007 Jul;**47(1 Suppl)**:40S-6S.
- 35) Karapitou K, Drago F, Crespiatico L, Paccapelo C, Truglio F, Frison S, Scalamogna M, Poli F. Blood group genotyping for Jk(a)/Jk(b), Fy(a)/Fy(b), S/s, K/k, Kp(a)/Kp(b), Js(a)/Js(b), Co(a)/Co(b), and Lu(a)/Lu(b) with microarray beads. *Transfusion*. 2008 Mar;**48(3)**:505-12. Epub 2007 Dec 7.
- 36) Bugert P, McBride S, Smith G, Dugrillon A, Klüter H, Ouwehand WH, Metcalfe P. Microarray-based genotyping for blood groups: comparison of gene array and 5'-nuclease assay techniques with human platelet antigen as a model. *Transfusion*. 2005 May;**45(5)**:654-9.
- 37) Beiboer SH, Wieringa-Jelsma T, Maaskant-Van Wijk PA, Van der Schoot CE, Van Zwieten D, Roos D, Den Dunnen JT, De Haas M. Rapid genotyping of blood group antigens by multiplex polymerase chain reaction and DNA microarray hybridization. *Transfusion* 2005;**45**:667-679.
- 38) Denomme GA, Van Oene M. High-throughput multiplex single-nucleotide polymorphism analysis for red cell and platelet antigen genotypes. *Transfusion* 2005;**45**:660-666.
- 39) Montpetit A, Phillips MS, Mongrain I, Lemieux R, St-Louis M. High-throughput molecular profiling of blood donors for minor red blood cell and platelet antigens. *Transfusion* 2006;**46**:841-848.
- 40) Li Y, Finning K, Daniels G, Hahn S, Zhong X, Holzgreve W. Noninvasive genotyping fetal Kell blood group (KEL1) using cell-free fetal DNA in maternal plasma by MALDI-TOF mass spectrometry. *Prenat Diagn*. 2008 Mar;**28(3)**:203-8.

- 41) St-Louis M, Perreault J, Lavoie J, Émond J, St-Laurent J, Long A, Richard M.  
(Genotyping of 21,000 blood donors in Quebec and RHD analysis).  
*Transfus Clin Biol.* 2010 Oct;**17(4)**:242-8. Epub 2010 Oct 20.
- 42) Hopp K, Weber K, Bellissimo D, Johnson ST, Pietz B.  
*H-throughput red blood cell antigen genotyping using a nanofluidic real-time polymerase chain reaction platform.*  
*Transfusion* 2010;**50(1)**:40–6.
- 43) Polin H, Danzer M, Pröll J, Hofer K, Heillinger U, Zopf A, et al.  
*Introduction of a real-time-based blood-group genotyping approach.*  
*Vox Sang* 2008;**95(2)**:125–30.
- 44) Jungbauer C.  
*Routine use of DNA testing for red cell antigens in blood centres.*  
*Transfus Apher Sci.* 2011 Aug;**45(1)**:61-8.