



HLA in Unrelated Stem cell transplantation

Prof. M-P. Emonds



Rode Kruis.
Vlaanderen

Paraat. Altijd, overal.



1. HLA system/Nomenclature



2. Inheritance / Extended haplotype / Linkage disequilibrium

3. Search examples



Rode Kruis.
Vlaanderen

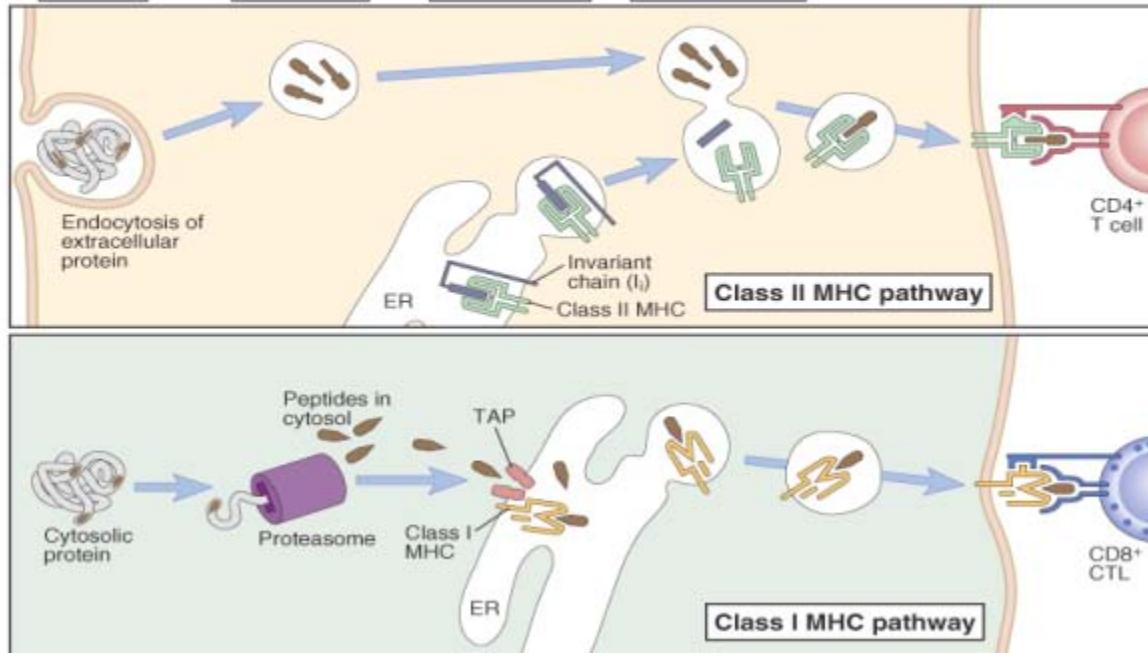
Paraat. Altijd, overal.

Antigen uptake

Antigen processing

MHC biosynthesis

Peptide-MHC association



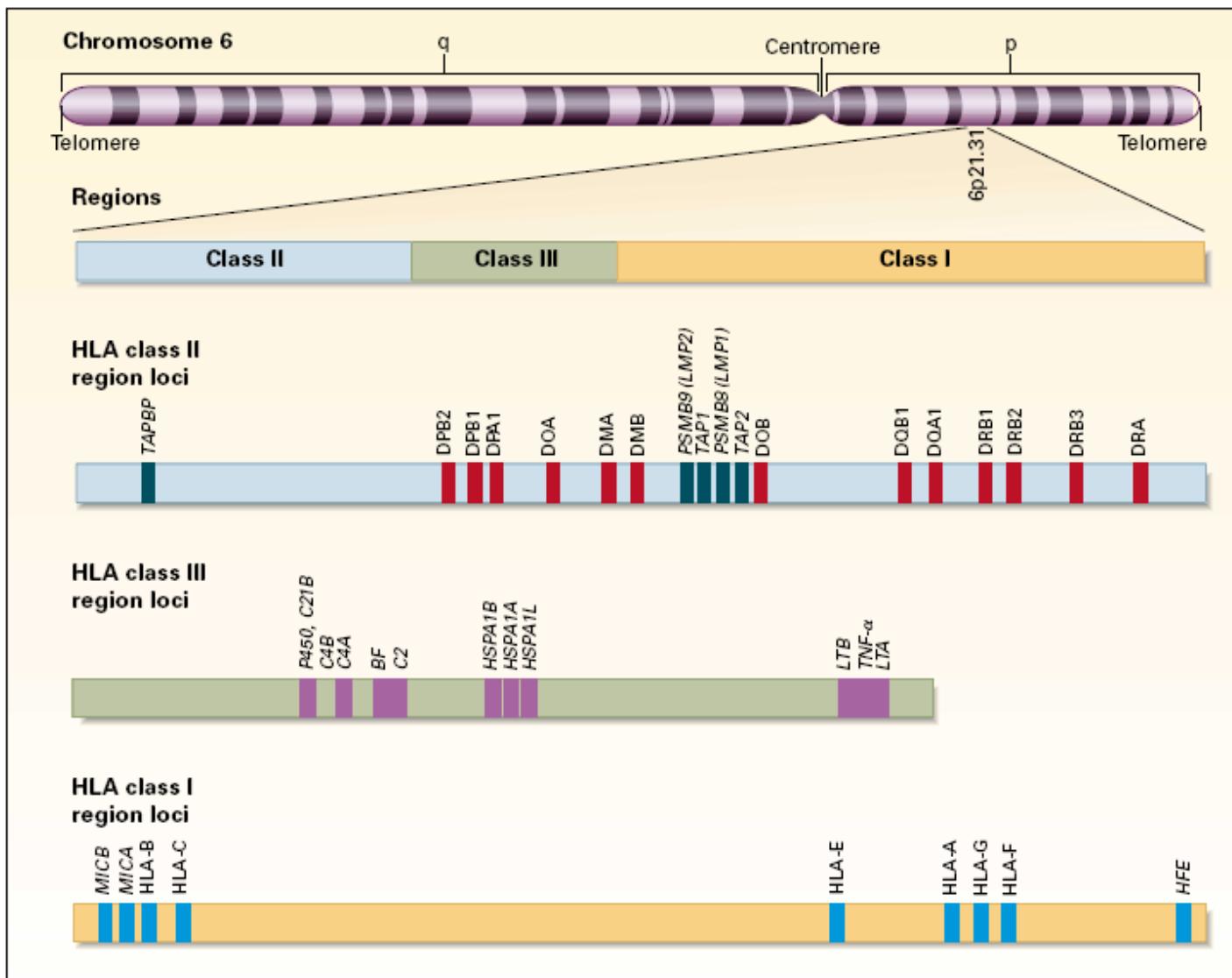
Presentation and Recognition

HLA Antigens: antennae to recognize foreign germs or viruses (peptides) entering the body and communicate this information to the white blood cells to initiate an immune response.

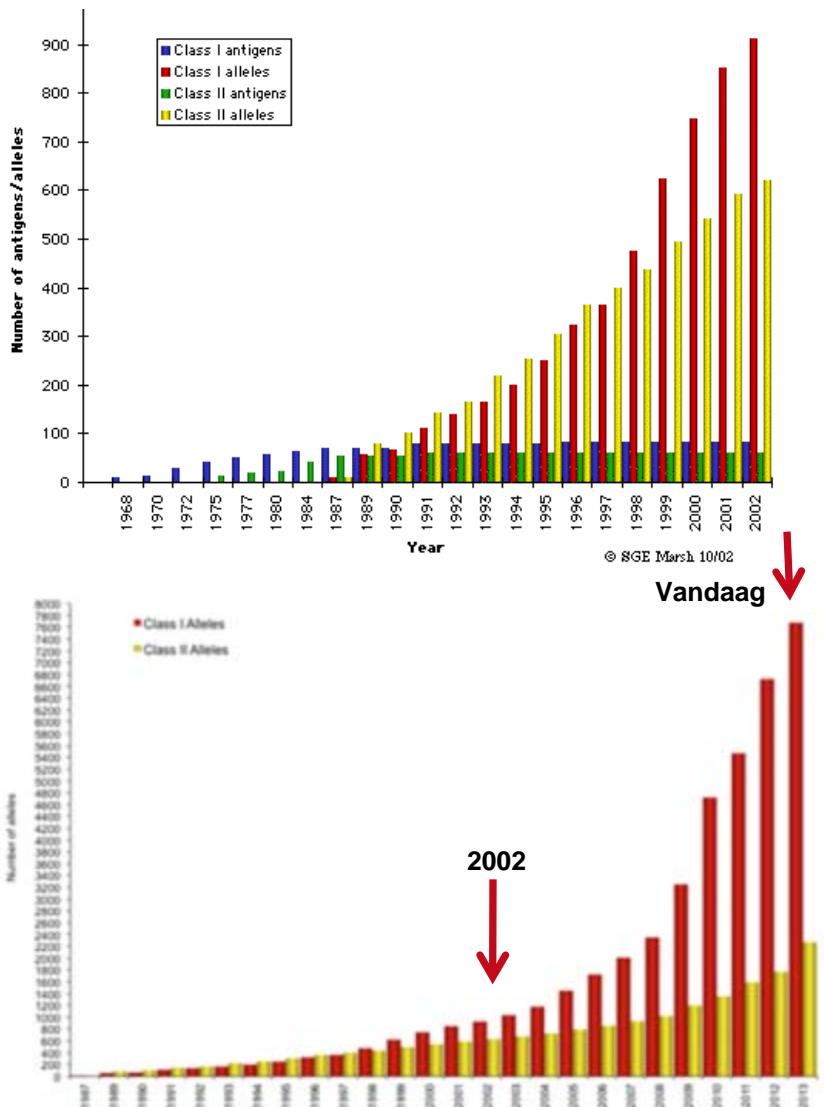
In stemcell transplantation, **patient HLA (immune system) is replaced by donor HLA (immune system)**

- > Rejection in case of mismatches
- > Graft versus Host disease if donors recognises patient as foreign
- > Insufficient recognition will lead to overwhelming infection

Majeure Histocompatibiliteitscomplex: MHC



Detected polymorphism in classical HLA



Serology Antigen (MD)	DNA: Allele (low and high resolution)
A3,A2,A11 , A24,.....	A*03:01 A*03:02...
B61,B7,...	B*40:02 B*40:06...
DR15,DR4,	DRB1*15:01 DRB1*15:02 DRB5*01:01

D - HLA ALLELES AND ANTIGENS

D1.000 Terminology of HLA alleles and antigens must conform to the latest report of the WHO Committee on Nomenclature.

Nomenclature	Indicates
HLA	the HLA region and prefix for an HLA gene
HLA-DRB1	a particular HLA locus i.e. DRB1
HLA-DRB1*13	a group of alleles which encode the DR13 antigen
HLA-DRB1*13:01	a specific HLA allele
HLA-DRB1*13:01N	a null allele
HLA-DRB1*13:01:02	an allele which differs by a synonymous mutation
HLA-DRB1*13:01:01:02	an allele which contains a mutation outside the coding region
HLA-DRB1*1301:01:02N	a null allele which contains a mutation outside the coding region

13AGM 1301/1316/1322/1327 Multiple allele codes

HLA DR13 : serological nomenclature / also used for serological equivalent (Match determinant), used for search purposes
(MICA, MICB, KIR genes, LMP & TAP are named by the same nomenclature committee)

www.efi.org; www.bmdw.org; www.nmdp.org;

HLA typing -> to find an HLA identical donor

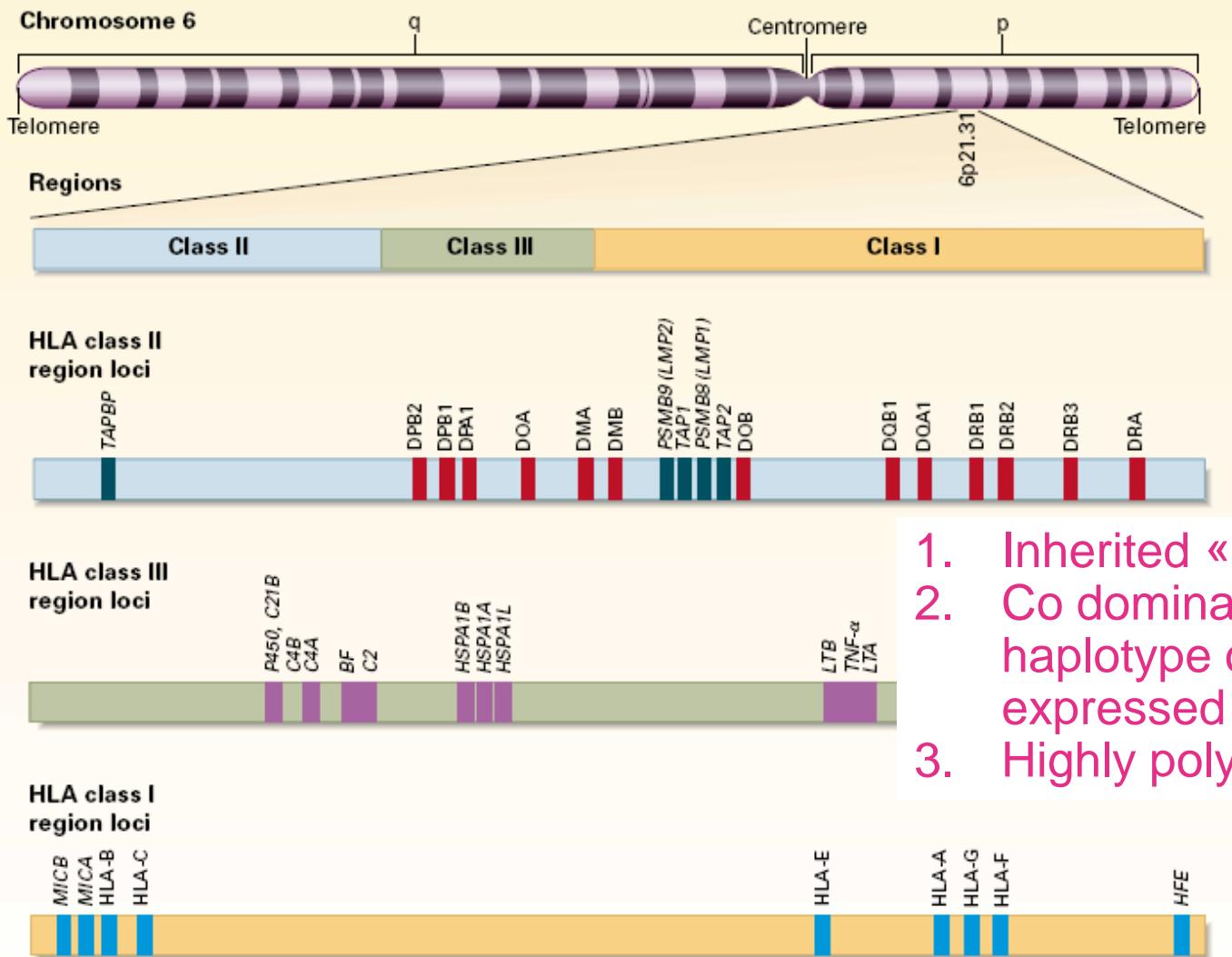
Bepaling	HLA A	HLA B	HLA Cw	HLA DRB1 HR	HLA DQB1
HR Typing (2nd Field)	A*26:01 A*33:03 28/10/13 11:00	B*55:01 B*58:01 28/10/13 11:00	C*03:02 C*03:03 28/10/13 11:00	DRB1*11:01 DRB1*13:02 28/10/13 11:00	DQB1*03:01 DQB1*06:09 28/10/13 11:00
LR Typing (1st field)	A*26 A*33 17/10/13 08:00	B*55 B*58 17/10/13 08:00	C*03 C*03 17/10/13 08:00	DRB1*11 DRB1*13 17/10/13 08:00	DQB1*03 DQB1*06 17/10/13 08:00
Match determinant:	A26(A10) A33(A19) 17/10/13 08:00	B55 B58(B17) 17/10/13 08:00	Cw10(Cw3) Cw9(Cw3) 17/10/13 08:00	DR11(DR5) DR13(DR6) 17/10/13 08:00	DQ7(DQ3) DQ6(DQ1) 17/10/13 08:00

LR typing: (2 digits) 1st field mismatch = Antigenic mismatches

HR typing: (4 digits) 2nd field mismatch = allelic mismatches

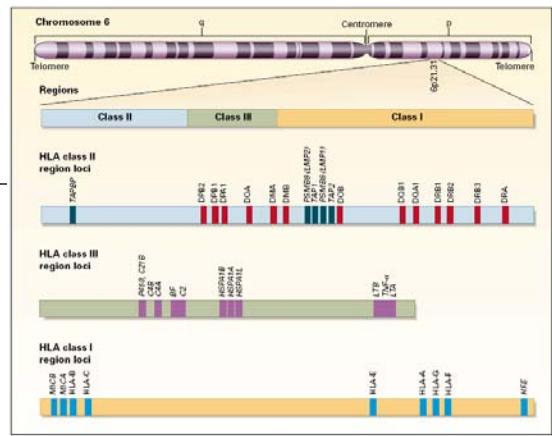
Match Determinant: 1st field, used for matching algorithm

Majeure Histocompatibiliteitscomplex: MHC



1. Inherited « en bloc »
2. Co dominant expression, haplotype of each parent is expressed
3. Highly polymorphic

Moeder van Bas		Vader van Bas				Ria, Partner van Bas, moeder van Joeri	
Maria		Joannes					
A	B	C	D				
A*02	A*11	A*03	A*31				
B*49	B*56	B*35	B*51				
Cw*07	Cw*01	Cw*04	Cw*15				
DRB1*04	DRB1*07	DRB1*01	DRB1*11				
DQB1* 03	DQB1* 03	DQB1* 05	DQB1* 03				
Patiënt		Broer van Bas		Zus van Bas			
Bas		Jan		Eva			
B	C	A	C	B	D		
A*11	A*03	A*02	A*03	A*11	A*31		
B*56	B*35	B*49	B*35	B*56	B*51		
Cw*01	Cw*04	Cw*04	Cw*04	DRB1*04	DRB1*11		
DRB1*07	DRB1*01	DRB1*04	DRB1*01	DRB1*04	DRB1*11		
DQB1* 03	DQB1* 05	DQB1* 03	DQB1* 05	DQB1* 04	DQB1* 11		
Kind van Bas & Ria		Zus van Bas		Broer van Bas			
Joeri		Lies		Tim			
B	F	A	D	B	C		
A*11	A*03	A*02	A*03	A*11	A*03		
B*56	B*50	B*49	B*35	B*56	B*35		
DRB1*07	DRB1*08	DRB1*04	DRB1*01	DRB1*07	DRB1*01		
DQB1* 03	DQB1* 05	DQB1* 03	DQB1* 05	DQB1* 03	DQB1* 05		



Moeder van Bas	
Maria	
A	B
A*02	A*11
B*49	B*56
Cw*07	Cw*01
DRB1*04	DRB1*07
DQB1* 03	DQB1* 03

Vader van Bas	
Joannes	
C	D
A*03	A*31
B*35	B*51
Cw*04	Cw*15
DRB1*01	DRB1*11
DQB1* 05	DQB1* 03

Ria, Partner van Bas, moeder van Joeri	
E	F
A*29	A*03
B*07	B*50
DRB1*12	DRB1*08

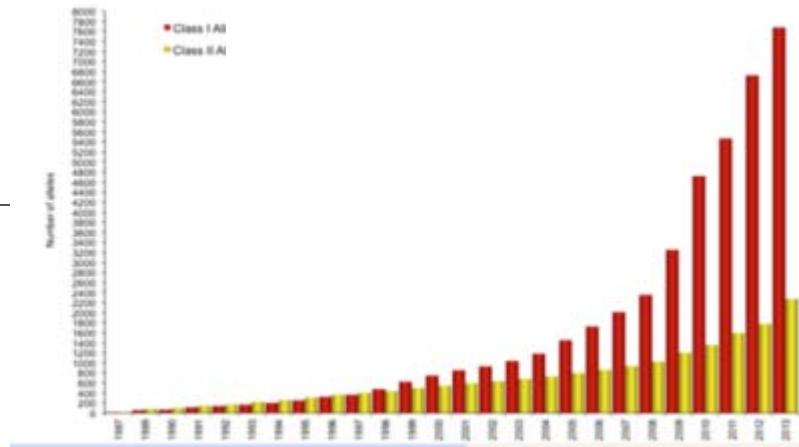
Patient	
Bas	
B	C
A*11	A*03
B*56	B*35
Cw*01	Cw*04
DRB1*07	DRB1*01
DQB1* 03	DQB1* 05

Broer van Bas	
Jan	
A	C
A*02	A*03
B*49	B*35
DRB1*04	DRB1*01

Zus van Bas	
Eva	
B	D
A*11	A*31
B*56	B*51
DRB1*07	DRB1*11

Zus van Bas	
Lies	
A	D
A*02	A*31
B*49	B*51
DRB1*04	DRB1*11

Kind van Bas & Ria	
Joeri	
B	F
A*11	A*03
B*56	B*50
DRB1*07	DRB1*08



A*11:01 A*03:01
 B*56:01 B*35:08
 C*01:02 C*04:01
 DRB1*07:01 DRB1*01:02
 DQB1*03:03 DQB1*05:01



Start MUD search (1)

1. registration by transplantcenter if HLA data are OK



2. Verify chance to find a suitable donor (www.bmdw.org)

3. Be informed on the urgency & the required matching degree. This might influence the search strategy

4. MDPB standards: have to be fulfilled. For HLA: at least a 9/10 match for a MUD donor; at least 4/6 for a CB.



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Start MUD search (2)



- 1. EFI Requirement patient: Confirmed, High resolution A B C DR DQ (null alleles excluded) - 2nd Field typing**
- 2. Verify the HLA typing of the donor to the same extend as the matching requirement before starting the work up**
- 3. Requirements for initial donortyping as less stringent**





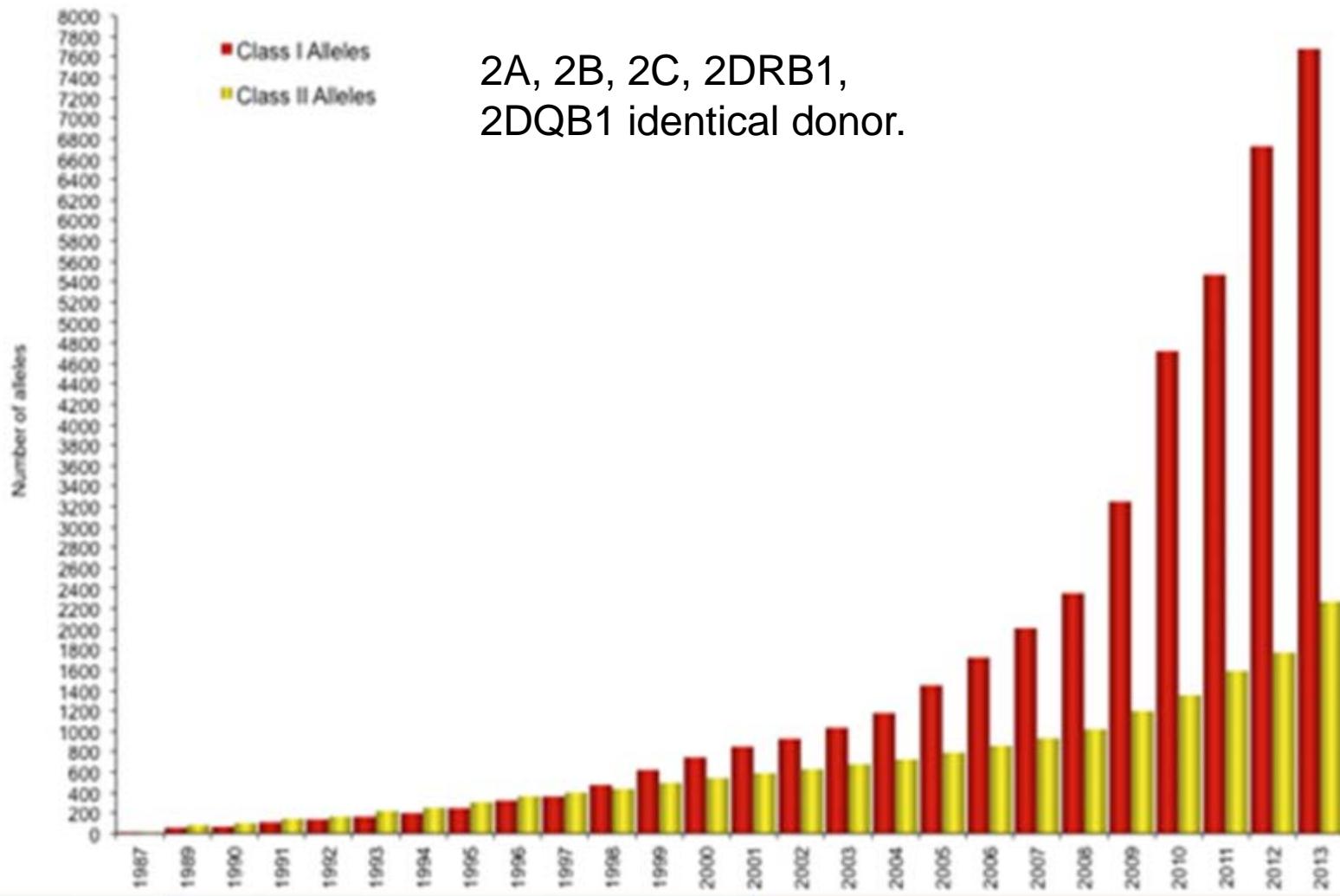
Start MUD search (3)

- 1. EFI Requirement Cord Donor: initial typing: A B low DRB1 High resolution**
- 2. Verify the HLA typing on a segment before it leaves the CBB.**
- 3. Verify the HLA typing of a segment of the CB to the same extend as the matching requirement after receipt in the transplantcenter. Standard: LR AB HR DRB1**



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Many donors in international registries

BONE MARROW DONORS WORLDWIDE

Welcome to Bone Marrow Donors Worldwide

Bone Marrow Donors Worldwide (BMDW) is the continuing effort to collect the HLA phenotypes and other relevant data of volunteer stem cell donors and cord blood units, and is responsible for the co-ordination of their worldwide distribution. Participants are 71 stem cell donor registries from 51 countries, and 48 cord blood banks from 32 countries.

The current number of donors and cord blood units in the BMDW database is:

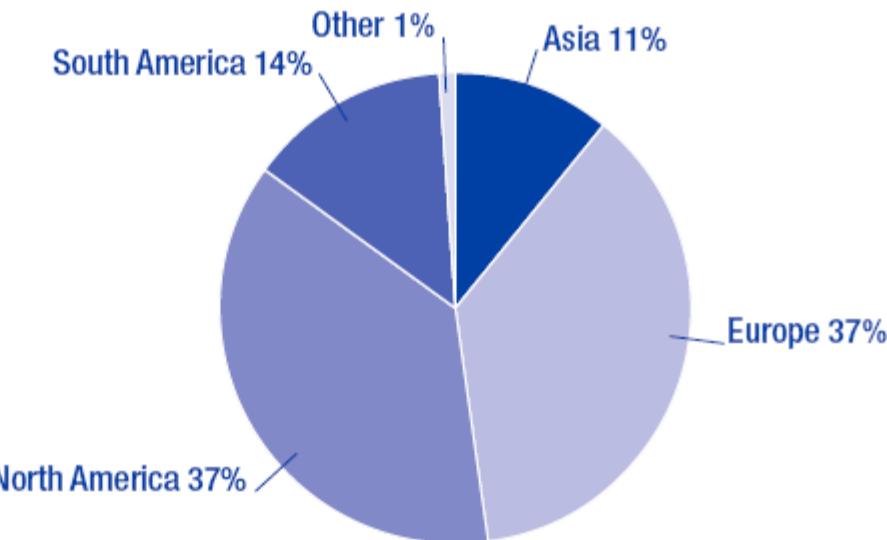
22,578,604 (21,983,667 donors and 594,937 CBU's)

There are currently 860 users from 518 organisations authorized to access the on-line BMDW services.

To find, faster, more donors, that are high resolution typed, near to the patient.
And for more (but not all) patients.

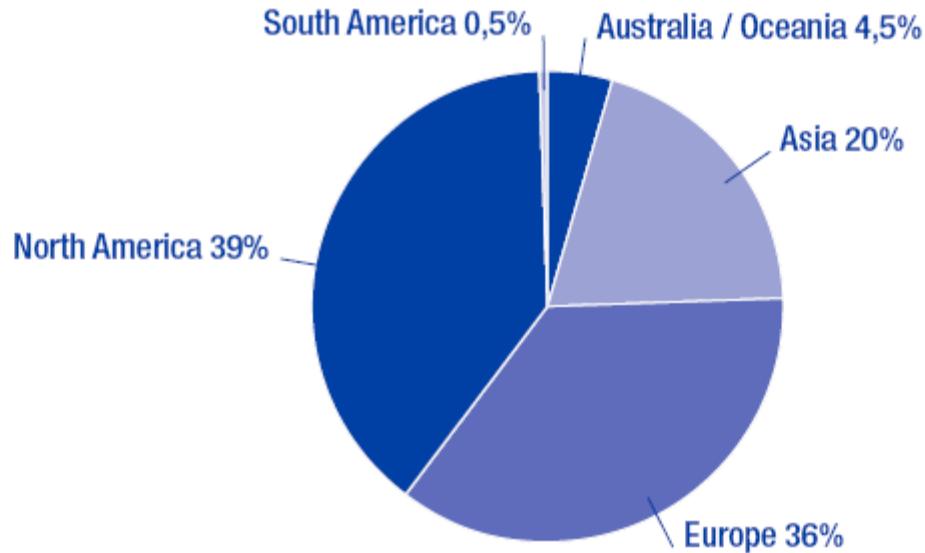
*Figure 8
The distribution of
stem cell donors
per continent*

© BMDW

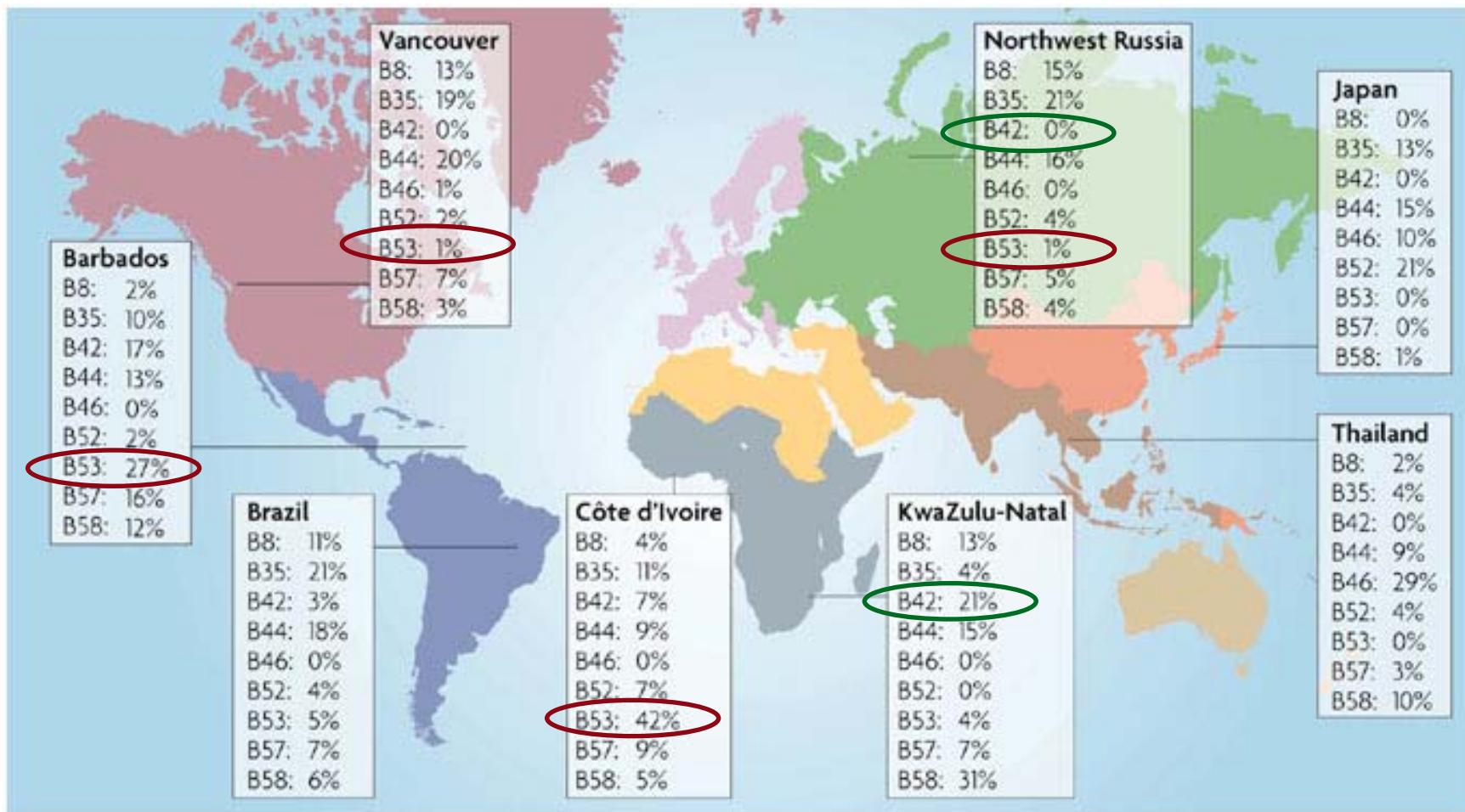


*Figure 10
Distribution of cord blood units
per continent*

© BMDW



Racial differences in HLA type



Distribution of HLA alleles

A1 B8 DR3 .048324 A3 B7 DR15 .033044

EXTENDED HAPLOTYPE: is niet verwant haplotype dat qua genetische origine erg homogeen is waardoor de hele regio (4000 kb van het MHC) een gelijkenis vertoont bij onverwanten alsof zij genetisch verwant waren (overgeërfd).

Het zijn meestal frequente haplotypes (tgv afwezigheid recombinatie hot spots, bewaard door natuurlijke selectie)

LINKAGE DISEQUILIBRIUM: Bepaalde combinaties komen veel frequenter voor dan verwacht. Daarenboven is er bvb een zeer sterke linkage tussen DRB1 & DQB1 en tussen B & Cw. (bvb DRB1*1401,DQB1*0503)

Recipient ID: TEST12112007BMR

Last name: XX

First name: XX

- HLA-C considered
- HLA-DQ considered
- Extended sorting on DRB1

Frequent HLA haplotype

A	B	C	DRB1	DQB1	Reg	#	Additional details DRB3/4/5
0101	0801	0702	0301	0201			

Allele matched:

0101	0801		0301	0201	PL4	1	
0101	0801		0301	0201	D	1	3*01XX
0101	0801		0301	0201	D	6	3*0101
0101	0801		0301	0201	D	5	
0101	0801		0301		TW	1	
0101	0801		0301		PL3	2	
0101	0801		0301		PL	1	
0101	0801		0301		D	14	

31

2007: 31 HR
typed donors
without C

Potentially (Allele) Matched:

0101	0801		0301	03AD	D	4	
0101	0801	08XX	0301	03AD	D	13	
---	---		----	----	---	-	

16939

BMDW Match Programs

Run Date: 18-Oct-2010

2010: 511 HR
typed donors
incl. HLA-C

Match Results - Regular Match Program

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Recipient ID: test20102010

Last name: test

First name: test

Search determinants: A: 1, B: 8, DR: 17,

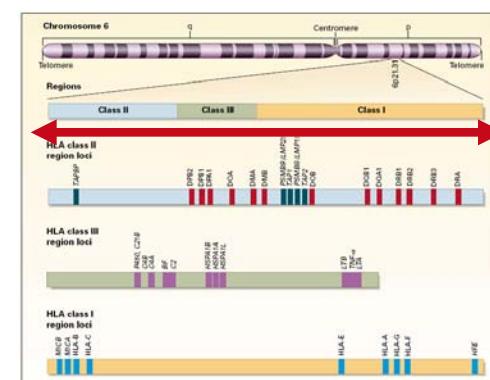
A	B	C	DRB1	DQB1	Reg	#	Additional details DRB3/4/5
01:01	08:01	07:01	03:01	02:01			

Allele matched:

01:01	08:01	07:01	03:01	02:01	D	1	3*01:01 4*NNNN 5*NNNN
01:01	08:01	07:01	03:01	02:01	A	1	3*01:01
01:01	08:01	07:01	03:01	02:01	CH	1	3*01:01
01:01:01	08:01:01	07:01	03:01:01	02:01:01	D	2	3*01:01
01:01	08:01	07:01	03:01	02:01	D	1	3*03:01
01:01	08:01	07:01	03:01	02:01	D	7	3*01:01
01:01	08:01	07:01	03:01	02:01	D	1	3*01:01
01:01	08:01	07:01	03:01	02:01	D	1	3*01:01
01:01	08:01	07:01	03:01	02:01	D	1	3*01:01
01:01	08:01	07:01	03:01	02:01	D	10	3*01:01
01:01	08:01	07:01	03:01:01	02:01	D	7	3*01:01
01:01	08:01	07:01	03:01:01	02:01	D	1	3*01:01
01:01	08:01	07:01	03:01:01	02:01	D	1	3*01:01
01:01	08:01	07:01	03:01:01	02:01	F	2	3*01:01
01:01	08:01	07:01	03:01	02:01	F	1	3*01:01
01:01	08:01	07:01	03:01	02:01	F	2	3*01:01
01:01	08:01	07:01	03:01	02:01	F	2	3*01:01

511

Extended haplotype



Increased number of High Resolution, typed donors

Frequent HLA haplotype

Recipient ID: test20102010

Last name: test

First name: test

Search determinants: **A: 1, B: 8, DR: 17,**

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10/10 matched
donor

A	B	C	DRB1	DQB1	Reg	#	DRB3/4/5	DPB1
01:01	08:01	07:01	03:01	02:01				

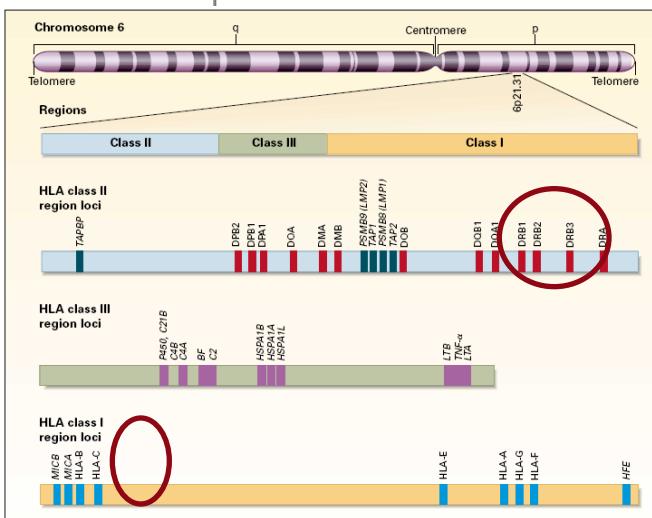
Allele matched:					1258			
01:01	08:01	07:01	03:01	02:01	D	1	3*01:01 4*NNNN 5*NNNN	H
01:01	08:01	07:01	03:01	02:01	A	2	3*01:01	
01:01	08:01	07:01	03:01	02:01	CH	1	3*01:01	
01:01	08:01	07:01	03:01	02:01	CND	1	3*01:01	04:01,04:02
01:01:01	08:01	07:01	03:01	02:01:01	D	1	3*01:01	04:01,04:02
01:01	08:01	07:01	03:01	02:01	D	1	3*01:01	04:01
01:01	08:01	07:01	03:01	02:01	D	4	3*01:01	
01:01	08:01	07:01	03:01:01	02:01	D	14	3*01:01	
01:01	08:01	07:01	03:01:01	02:01	D	1	3*01:01	01:01,02:01
01:01	08:01	07:01	03:01:01	02:01	D	2	3*01:01	01:01,04:01
01:01	08:01	07:01	03:01:01	02:01	D	1	3*01:01	04:01,05:01
01:01	08:01	07:01	03:01:01	02:01	D	1	3*01:01	03:01,04:01
01:01	08:01	07:01	03:01	02:01	D	1	3*01:01	

HR- typed

2013: 1258

donors
completely
typed and
ready for
selection and
work up

Linkage disequilibrium



BMDW Match Programs

Run Date: 2013-11-18

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M. Emonds
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Recipient ID: test20102010

Last name: test

First name: test

Search determinants: A: 1, B: 8, DR: 17,

<< First page | < Previous page Page nr: 7 (of 51) Next page > | Last page >>

A	B	C	DRB1	DQB1	Reg	#	DRB3/4/5	DPB1
01:01	08:01	07:01	03:01	02:01				

Potentially (Allele) Matched:

01:RZUD	08:XKT	07:JECH	03:01:01	02:01:01	D	1	03:FNWX
01:RZUD	08:XKT	07:JECH	03:01:01	02:01:01	D	1	04:01:01:19:01
01:RZUD	08:XKT	07:JECH	03:01:01	02:01:01	D	1	04:01:01:05:RGPW
01:RZUD	08:XKT	07:JECH	03:01:01	02:01:01	D	1	04:02:01
01:RZUD	08:XKT	07:JECH	03:01	02:01:01	D	1	02:02:04:01
01:RZUD	08:XKT	07:JECH	03:01	02:01:01	D	1	02:01:02:19:01
01:RZUD	08:XKT	07:JECH	03:01	02:01:01	D	12	03:FNWX,04:01
01:RGPH	08:XKT	07:JECH	03:01	02:01:01	D	1	03:FNWX,05:RGPW
01:RGPH	08:XKT	07:JECH	03:01	02:01:01	D	5	03:FNWX,04:02
01:RGPH	08:XKT	07:JECH	03:01	02:01:01	D	2	03:FNWX,09:01
01:PAUK	08:XKT	07:JECH	03:01	02:01:01	D	1	01:01:01:19:01
01:RGPH	08:XKT	07:JECH	03:01	02:01:01	D	1	03:FNWX,10:01
01:RGPH	08:XKT	07:JECH	03:01	02:01:01	D	1	01:01:01:19:01
01:RGPH	08:XKT	07:CVAG	03:01	02:01:01	D	1	04:FNVS,09:01
01:KTKV	08:XKT	07:JECH	03:01	02:01:01	D	1	01:01:01:20:01:01
01:RGPH	08:XKT	07:JECH	03:01	02:01:01	D	1	01:01:01:23:01
01:KTKV	08:XKT	07:CVAG	03:01	02:01	D	1	01:01:04:01
01:KTKV	08:XKT	07:CVAG	03:01	02:01	D	1	01:01:05:01
01:RGPH	08:XKT	07:JECH	03:01	02:01:01	D	1	02:01:03:FNWX
01:KTKV	08:XKT	07:CVAG	03:01	02:01	06:02	D	2
01:KTKV	08:XKT	07:CVAG	03:01	02:01	D	2	03:FNWX
01:RGPH	08:XKT	07:JECH	03:01	02:01:01	D	11	02:01:04:01

Multiple allele codes

IR- typed

Bestand Bewerken Beeld Favorieten Extra Help

x Google

Favorieten Laatste adviezen aandelen ... DNA & RNA Services EMBL... Remote access pagina

<https://www.bmdw.org/scripts/runisa.dll?RM>

Match Results - Regular Match Program

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Recipient ID: BEUZGTEST

Last name: AM First name: AM

Search determinants: A: 2, 32 B: 44, 50 DR: 4, 7

Page nr: 1 (of 5)

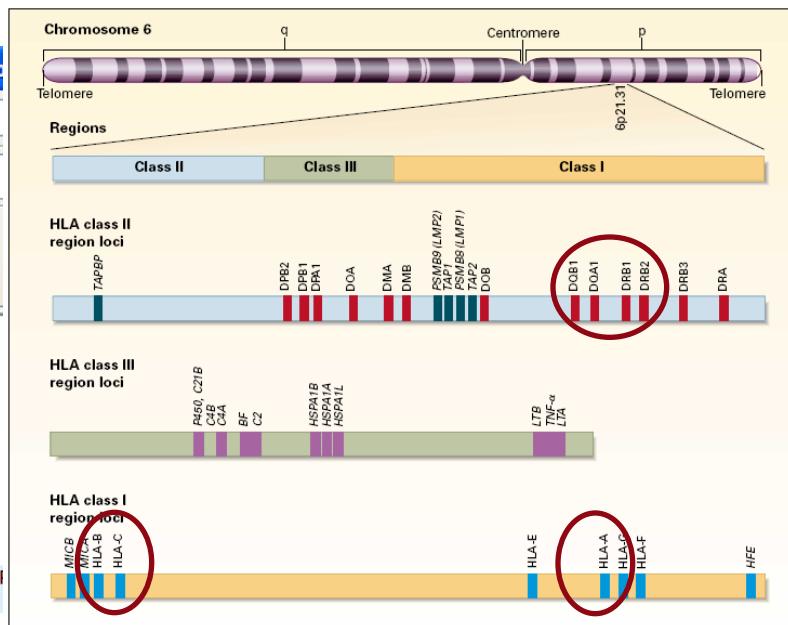
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A	B	C	DRB1	DQB1	Reg	#	DI
02:01	32:01	44:02	50:01	05:01	06:02	04:01	07:01

Potentially (Allele) Matched:

122

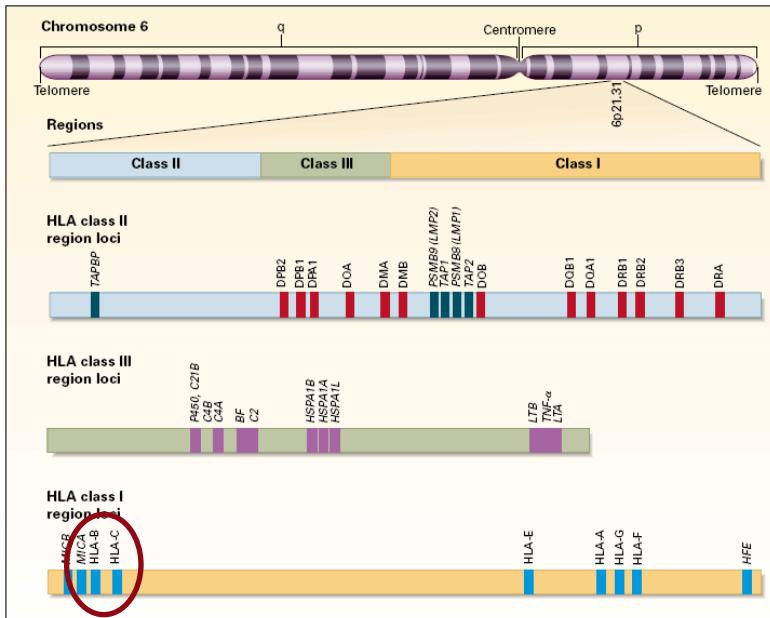
02:01:01G32:01:01G44:02:01G50:01:01	05:01:01G06:02:01G04:01:01	07:01:01G02:02:01	03:01:01	D	1		
02:KNHP 32:01	44:JGMU 50:01	05:JEAU 06:JCBB 04:01	07:01	02:02	03:01	D	1
02:GNF 32:01	44:PYV 50:01	05:AC 06:02	04:01:01	07:01:01	02:EAN	03:SNFR	D 1 4*01:XX
02:DFKP 32:01	44:ENWF 50:01	05:EX 06:NS	04:01	07:01	02:MS	03:02	
02:01 32:01	44:02 50:01	05:01	06:02	04:01	07:XX		
02:DFKP 32:01	44:ENWF 50:01	04:FJCR 05:DMRZ	04:01:01	07:01:01	02:MS	03:EN'	
02:DFKP 32:01	44:ENWF 50:01	05:EX 06:NS	04:01:01	07:01:01	02:MS	03:EN'	
02:RGPK 32:01	44:JGMU 50:01	05:TMVG 06:TMVJ	04:01	07:01	02:EAN	03:SN	
02:DFKP 32:01	44:ENWF 50:01	05:EX 06:NS	04:01	07:01	02:MS	03:EN'	
02:CUPK 32:AG	44:WRJ 50:01	05:EX 06:NS	04:01:01	07:01:01	02:EAN	03:RC..	
02:KNHP 32:01	44:MBJP 50:AK	05:JXFW 06:JXGK	04:01	07:01	02:EAN	03:JEAW USA1	1 4*01:XX
02:VTCU 32:WEKB	44:WCRH 50:VXUT	05:WDFB 06:WECX	04:VYHU 07:01	02:02	03:VWZV GB	1	4*01:TFE
02:DFKP 32:01	44:WRJ 50:01	05:EX 06:NS	04:01:01	07:01:01	D	1	4*01:XX
02:XX 32:XX	44:XX 50:XX	05:AC 06:02	04:01	07:01	02:MN	03:VNJ	D 1 4*01:MY
02:XX 32:XX	44:XX 50:XX	05:AC 06:02	04:01	07:01	02:MN	03:VNJ	USA1 1 4*01:MY
02:ANXF 32:YH	44:AGWY 50:01	05:ARSE 06:ASCZ	04:01	07:AC	02:XX	03:AD	USA1 1 4*01:GM
02:XX 32:XX	44:XX 50:XX	05:AC 06:02	04:01	07:01	02:AB	03:PUH	USA1 1 4*01:MY



B*44:02,C*05:01 is in linkage disequilibrium

-> many 10/10 matches

-> 1st step = CT



Page nr: 1 (of 4)

Next page > | Last page >>

A	B	C	DRB1	DQB1	Reg	#					
02:01	32:01	44:03	50:01	05:01	06:02	04:01	07:01	03:02	04:02		

Potentially (Allele) Matched:

02:DFKP	32:01	44:03	50:01	04:CVAF	06:02	04:01:01	07:01:01		D	1	
02:XX	32:XX	44:XX	50:XX	05:AC	06:02	04:01	07:01	02:MN	03:VNJ	D 1	
02:XX	32:XX	44:XX	50:XX	05:AC	06:02	04:01	07:01	02:MN	03:VNJ	USA1 1	
02:XX	32:XX	44:XX	50:XX	05:AC	06:02	04:01	07:01	02:AB	03:PUH	USA1 1	
2	32	44	50			04:01	07:01	03:01	03:03	D 1	
02:XX	32:XX	44:XX	50:XX	05:01	06:02	04:XX	07:01		DK	1	
02:XX	32:XX	44:XX	50:XX	06:BG	16:XX	04:XX	07:XX	02:MS	03:NX	GB4 1	
2	32	44	50			04:01	07:01	02:01	03:02	D 1	
2	32	44	50			04:01	07:01	02:01	03:01	D 1	
02:TRNH	32:TRRM	44:YCNB	50:TUHA			04:TRXP	07:MAWZ	02:CR	03:TRWK	GB3 1	
02:XX	32:XX	44:XX	50:01			04:01	07:01		U		
02:XX	32:01	44	50			04:01	07:01		U		
02:XX	32:XX	44:XX	50:XX			04:01	07:01		C		
02:XX	32:XX	44:XX	50:XX			04:01:01	07:01:01		D		
2	32	44	50			04:01	07:01	02:AB	03:AD	D	
02:XX	32:01	44:XX	50:XX			04:VN	07:01		U		
2	32	44	50			04:01	07:01	02:XX	03:AD	U	
02:GKES	32:GKHP	44:GNSZ	50:FWM			04:DZTR	07:FMAN		B		
2	32	44	50			04:BMS	07:MT	02:AB	03:01	G	
02:XX	32:01	44:XX	50:XX			04:JEF	07:DWH		U		
02:GKES	32:GKHP	44:XX	50:FWM			04:DZTR	07:FMAN		B		
02:XX	32:XX	44:XX	50:XX	05:XX	06:XX	04:XX	07:XX		B	1	
02:FMGC	32:EKAP	44:XX	50:XX			04:DZTR	07:FMAN		BR	1	
02:FMGC	32:EKAP	44:FRGR	50:XX			04:XX	07:FMAN		BR	1	
02:XX	32:XX	44:XX	50:XX			04:XX	07:01		D	1	
2	32	44	50			04:XX	07:01	02:XX	03:02	F	1
02:XX	32:01	44:XX	50:XX			04:XX	07:XX		GB4	1	
02:XX	32:XX	44:XX	50:XX	06:XX	16:XX	04:XX	07:XX		I	1	
02:XX	32:XX	44:XX	50:XX			04:JEF	07:MT		CND3	1	
2	32	44	50			04:01:01	07:01:01		D	1	
02:XX	32:XX	44:XX	50:XX			04:IEF	07:MT		D	1	

B*44:03, C*05:01 = rare HLA-B,C association

-> no fully matched donor available

-> 1st step is HR typing requests

-> probably only 9/10 match

Rare alleles (independent from race)

erings persoon:

Bepaling	HLA A	HLA B	HLA Cw	HLA DRB1	HLA DQB1
Laatste	A*31:01 A*68:01 26/05/10	B*15:17 B*51:07 26/05/10	C*07 C*14 26/05/10	DRB1*13:02 niet gedetecteerd 26/05/10	DQB1*06:04 DQB1*06:09 26/05/10
Voorlaatste	A*31(A31) A*68(A68) 09/09/08	B*15(B63) B*51(B51) 09/09/08	-	DRB1*13(DR13) niet gedetecteerd 09/09/08	-

erings relaties:

Relatie	Naam	HLA A	HLA B	HLA Cw	HLA DRB1	HLA DQB1
vader		A*03(A3) A*68(A68) 02/08/10	B*15(B63) B*57(B57) 02/08/10	-	DRB1*13(DR13) DRB1*15(DR15) 02/08/10	-
moeder		A*02(A2) A*31(A31) 02/08/10	B*35(B35) B*51(B51) 02/08/10	-	DRB1*07(DR7) DRB1*13(DR13) 02/08/10	-
broer		A*02(A2) A*03(A3) 09/09/08	B*35(B35) B*57(B57) 09/09/08	-	DRB1*07(DR7) DRB1*15(DR15) 09/09/08	-

Match Results - Regular Match Program

[Back to Menu](#) | [Select different match \(options\)](#) | [Show Summary](#) | [Match on incomplete typings](#)

Recipient ID: test

Last name: test

First name:

Search determinants: A: 31, 68 B: 63, 51 DR: 13,

A	B	C	DRB1	DQB1	Reg	#	Additional details		
31:01	68:01	15:17	51:07	07:XX	14:02	13:02	06:04	06:09	DRB3/4/5

HLA-A or -B Allele/Split Antigen Mismatched:

31:XX	68:XX	51:XX	15:JUS	03:04	15:BJ	13:TKS	13:TKT	USA1	1	3*02:KBM
<u>32:XX</u>	68:CTTA	51:XX	15:17			13:FKRU	13:FKRV	D	1	
<u>30:01</u>	68:XX	51:AZRE	15:XX			13:XX		D	1	
<u>32:XX</u>	68:XX	51:XX	15:XX	03:XX	15:XX	13:XX		N	1	
<u>32:XX</u>	68:XX	51	63	07:XX	15:XX	13:XX		I	1	
31	28	<u>52</u>	63			13:AB	13:KP	USA1	1	3*01:01
<u>32:XX</u>	68:XX	51:XX	15:XX			13:XX		IL2	1	
31	28	<u>51</u>	<u>62</u>			13:JEW	13:JHN	D	1	3*02:JSU,02:KAA
31	68	5	<u>62</u>			13:XX		D	1	

Registry Code Information:

D: Germany

N: Norway

I: Italy

USA1; USA-NMDP

IL2: Israel-Ezer Mizion

Multiple Allele Code Information:

AB: 01/02

JSU: 01/02/03/06/07/09/10/11/12

AZRE: 51:01-51:10/51:11N/51:12-
51:24/51:26/51:27N/51:28-51:36/ 52:01-
52:06

JUS: 15:01/15:01N/15:04/15:33/15:34/15:38/15:60

BJ: 02/13

KAA: 01/02/03/06/07/09/10/11/12/13

Oktober 2010

14.900.000
donorsOnly mismatched
donors available

Rare alleles

Match Results - Regular Match Program

[Back to Menu](#) | [Select different match \(options\)](#) | [Show Summary](#) | [Match on incomplete typings](#)

Recipient ID: test

Last name: test

First name:

Search determinants: A: 31, 68 B: 63, 51 DR: 13,

A	B	C	DRB1	DQB1	Reg	#
31:01	68:01	15:17	51:07	07:XX	14:02	13:02

Potentially (Allele) Matched:

31:XX	68:XX	51:XX	15:XX	13:XX	BR	4
-------	-------	-------	-------	-------	----	---

HLA-A or -B Allele/Split Antigen Mismatched:

31:XX	68:XX	51:XX	<u>15:JUS</u>	03:04	15:BJ	13:TKS	13:TKT	USA1	1
31:JDZD	68:CAKR	51	<u>62</u>	03:FJUM	15:AYVB	13:JEW	13:JHN	D	1
<u>32:XX</u>	68:CTTA	51:XX	<u>15:17</u>			13:FKRU	13:FKRV	D	1
<u>30:01</u>	68:XX	51:AZRE	<u>15:XX</u>			13:XX		D	1
<u>32:XX</u>	68:XX	51:XX	<u>15:XX</u>	03:XX	<u>15:XX</u>	13:XX		N	1
<u>32:XX</u>	68:XX	51	63	07:XX	<u>15:XX</u>	13:XX		I	1
<u>31</u>	28	<u>52</u>	63			13:AB	13:KP	USA1	1
<u>33:XX</u>	68:XX	51:XX	<u>15:XX</u>			13:XX		BR	2
<u>32:XX</u>	68:XX	51:XX	<u>15:XX</u>			13:XX		BR	1
<u>29:XX</u>	68:XX	51:XX	<u>15:XX</u>			13:XX		BR	2
<u>30:XX</u>	68:XX	51:XX	<u>15:XX</u>			13:XX		BR	1
<u>74:XX</u>	68:XX	51:XX	<u>15:XX</u>			13:XX		BR	3
<u>32:XX</u>	68:XX	51:XX	<u>15:XX</u>			13:XX		IL2	1
<u>29:XX</u>	68:XX	51:XX	<u>15:XX</u>			13:XX		P	2

HLA-DR Allele/Split Antigen Mismatched:

31:XX	68:XX	51:XX	15:XX	13:XX	<u>14:XX</u>	BR	2
-------	-------	-------	-------	-------	--------------	----	---

November 2013

> 22 000 000
donors4 potentially allele
matched donors
availableVirtually, only
mismatched
donors available

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https://www.bmdw.org/scripts/runisa.dll?RM

BMDW Match Programs

Run Date: 2013-11-16

Match Results - Regular Match Program

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Recipient ID: BEANSDW070740

Search determinants: A: 2, 11 B: 51, 57 DR: 17, 14

A	B	C	DRB1	DQB1	Reg	#	DRB3/4/5	DPB1	
02:01	11:01	51:01	57:01	01:02	06:02	03:01	14:BCAD	02:01	05:03

Potentially (Allele) Matched:

02:DFKP 11:BDFZ 51:CVAE 57:01:01	01:FNYV 06:EXRF 03:BMBB 14:DZBU 02:MS	05:03:01 B	1
02:XX 11:XX 51:XX 57:XX	03:ENW 14:ECZ	USA1	1
02:JWRB 11:XX 51:XX 57:JZJE	03:KCFZ 14:GPKR	BR	1
2 11 51:MDBU 57:JZJE	03:KCFZ 14:GPKR	BR	1

HLA-A or -B Allele/Split Antigen Mismatched:

02:01:01 11:01:01 51:01:01 58:01:01	03:02 14:02:01 03:01 14:54	CN	1
02:DFKP 11:BDFZ 51:08	57:01:01 06:02 16:02 03:BMBB 14:DZBU	PL6	1
02:DFKP 11:BDFZ 51:CVAE 58:VE	07:CVAG 03:BMBB 14:DZBU 02:MS	05:03:01 D	1
02:DFKP 11:BDFZ 51:CVAE 58:VE	02:02:02 03:02 03:CVT 14:BZFP	D	1
02:RHCU 11:PWMU 51 58	03:02 15:AYVB 03:PYVG 14:PYWS 02:EAN	05:BK USA1	1
02:XX 11:XX 51:XX 58:01	03:AGZM 14:PGC	USA1	1
02:BXJY 11:BPDM 51:AFJP 58:09	03:AUFU 14:BYUG	BR	1
02:XX 11:XX 51:XX 58:XX	03:EBUT 14:XX	TW	1
02:XX 11:XX 52:XX 57:XX	03:XX 14:XX	BR	1
02:XX 11:XX 51:XX 58:XX	03:XX 14:XX	P	1

HLA-DR Allele/Split Antigen Mismatched:

02:XX 11:XX 51:XX 57:XX 06:02 14:02	03:01 13:01 02:AB 06:03	USA1	1
02:ANDC 11:XSH 51:AFJR 57:GW 06:AJB 15:02	03:XEV 13:ASGS	USA1	1
02:JWRB 11:NVXT 51:JYXV 57:JYPZ	03:JXKA 13:JXRP	CND	1
02:XX 11:XX 51:XX 57:XX	03:XX 13:XX	BR	4
2 11 51:GWGR 57:EADY	03:GJRE 13:DHAD	BR	2

Rare HLA-B HLA-DR association



BMDW Match Programs

Database updated: 22-May-2007

2007: 0 donors
beschikbaar

Match Results - Regular Match Program

[Back to Menu](#) | [Select different match \(options\)](#) | [Show Summary](#) | [Match on incomplete typings](#)

Recipient [REDACTED] BAN Last [REDACTED] ERT First [REDACTED] EM

■ HLA-C considered ■ HLA-DQ considered ■ Extended sorting on DRB1

A	0301	3201	B	4701	5501	C	03XX	06XX	DRB1	0401	1501	DOB1	0301	0602	Reg #	Additional details	Info
---	------	------	---	------	------	---	------	------	------	------	------	------	------	------	-------	--------------------	------

NO DONORS/CBU's FOUND

= CB registered in NetCord

= CB registry partly registered in NetCord

[Back to Menu](#) | [Select different match \(options\)](#) | [Show Summary](#) | [Match on incomplete typings](#)

For your comments: BMDW@Europdonor.NL || [BMDW Homepage](#) || [Disclaimer](#)

Rare AB - DR association. None of the alleles is extremely rare.

BMDW Match Programs

Run Date: 18-Oct-2010

2010: nog steeds
0 donors
beschikbaar

Match Results - Regular Match Program

[Back to Menu](#) | [Select different match \(options\)](#) | [Show Summary](#) | [Match on incomplete typings](#)

Recipient ID: TEST20102010-2

Last name: test zzm

First name: test zzm

Search determinants: A: 3, 32 B: 47, 55 DR: 4, 15

A	03:01	32:01	B	47:01	55:01	C	03:XX	06:XX	DRB1	04:01	15:01	DQB1	03:01	06:02	Reg #	Additional details	Info
---	-------	-------	---	-------	-------	---	-------	-------	------	-------	-------	------	-------	-------	-------	--------------------	------

NO DONORS FOUND

= CB registered in NetCord

= CB registry partly registered in NetCord

**2013: virtually still no
donors available**

Match Results - Regular Match Program

[Back to Menu](#) | [Select different match \(options\)](#) | [Show Summary](#) | [Match on incomplete typings](#)

Recipient ID: TEST20102010-2

Last name: test zzm First name: test zzm

Search determinants: **A: 3, 32 B: 47, 55 DR: 4, 15**

A	B	C	DRB1	DQB1	Reg	#	DRB3/4/5				
03:01	32:01	47:01	55:01	03:XX	06:XX	04:01	15:01	03:01	06:02		

HLA-A or -B Allele/Split Antigen Mismatched:

03:XX	<u>30:XX</u>	55:XX	47:XX	15:XX	04:XX	BR	1
-------	--------------	-------	-------	-------	-------	----	---

HLA-DR Allele/Split Antigen Mismatched:

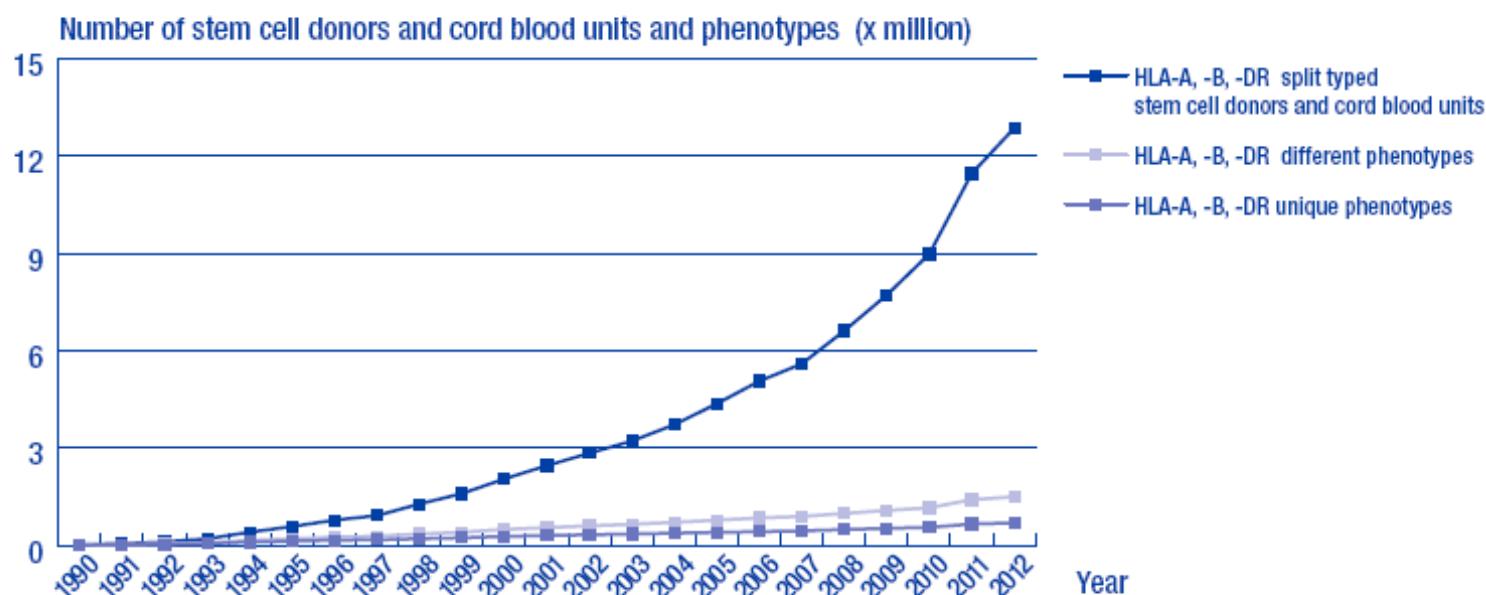
03:DCTR	32:EATM	55:DHRD	47:01	<u>15:DGMS</u>	<u>04:AMCV</u>	BR	1
03:JYYA	32:JYFA	55:KWBR	47:MR	<u>16:DCME</u>	<u>04:DZTR</u>	BR	1

Rare AB - DR association. None of the alleles is extremely rare.

Figure 12

*Number of stem cell donors
and cord blood units per year*

© BMDW



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https://www.bmdw.org/scripts/runisa.dll?RM

BMDW Match Programs

Run Date: 2013-11-16

Match Results - Regular Match Program

[Back to Menu](#) | [Select different match \(options\)](#) | [Show Summary](#) | [Match on incomplete typings](#)

Recipient ID: BEANSDW070740

Search determinants: A: 2, 11 B: 51, 57 DR: 17, 14

A	B	C	DRB1	DQB1	Reg	#	DRB3/4/5	DPB1	
02:01	11:01	51:01	57:01	01:02	06:02	03:01	14:BCAD	02:01	05:03

Potentially (Allele) Matched:

02:DFKP 11:BDFZ 51:CVAE 57:01:01	01:FNYV 06:EXRF 03:BMBB 14:DZBU 02:MS	05:03:01 B	1
02:XX 11:XX 51:XX 57:XX	03:ENW 14:ECZ	USA1	1
02:JWRB 11:XX 51:XX 57:JZJE	03:KCFZ 14:GPKR	BR	1
2 11 51:MDBU 57:JZJE	03:KCFZ 14:GPKR	BR	1

HLA-A or -B Allele/Split Antigen Mismatched:

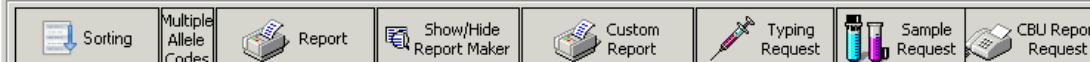
02:01:01 11:01:01 51:01:01 58:01:01	03:02 14:02:01 03:01 14:54	CN	1
02:DFKP 11:BDFZ 51:08	57:01:01 06:02 16:02 03:BMBB 14:DZBU	PL6	1
02:DFKP 11:BDFZ 51:CVAE 58:VE	07:CVAG 03:BMBB 14:DZBU 02:MS	05:03:01 D	1
02:DFKP 11:BDFZ 51:CVAE 58:VE	02:02:02 03:02 03:CVT 14:BZFP	D	1
02:RHCU 11:PWMU 51 58	03:02 15:AYVB 03:PYVG 14:PYWS 02:EAN	05:BK USA1	1
02:XX 11:XX 51:XX 58:01	03:AGZM 14:PGC	USA1	1
02:BXJY 11:BPDM 51:AFJP 58:09	03:AUFU 14:BYUG	BR	1
02:XX 11:XX 51:XX 58:XX	03:EBUT 14:XX	TW	1
02:XX 11:XX 52:XX 57:XX	03:XX 14:XX	BR	1
02:XX 11:XX 51:XX 58:XX	03:XX 14:XX	P	1

HLA-DR Allele/Split Antigen Mismatched:

02:XX 11:XX 51:XX 57:XX 06:02 14:02	03:01 13:01 02:AB 06:03	USA1	1
02:ANDC 11:XSH 51:AFJR 57:GW 06:AJB 15:02	03:XEV 13:ASGS	USA1	1
02:JWRB 11:NVXT 51:JYXV 57:JYPZ	03:JXKA 13:JXRP	CND	1
02:XX 11:XX 51:XX 57:XX	03:XX 13:XX	BR	4
2 11 51:GWGR 57:EADY	03:GJRE 13:DHAD	BR	2

Rare HLA-B HLA-DR association





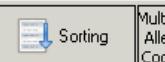
Drag a column header here to group by that column

iii	Msg	Donor Updat	Validity	Record Update	HUB	ID	State	Type	Sex	DOB	Match Grade	Match	A.1 [02:01]	A.2 [11:01]	B.1 [51:01]	B.2 [57:01]	C.1 [01:02]	C.2 [06:02]	DR.1 [03:01]	DR.2 [14:BC]	DQ.1 [02:01]	DQ.2 [05:03]	TC BETRAANS1		A 02:01	B 51:01	C 01:02	DRB1 03:01	DRB1 03:01	DRB1 03:01	
																						11:01	57:01	06:02	14:BCAD	02:01	05:03				
	Old	New	Latest	16/10/2013	BE	BEANT0006593	AV	MD	M	1960	4/4 AB Antigen Match	10/10	2	11	51	17															
+ Old	Upd	Latest	14/11/2013	BE	BEANT10004562	RS	MD	F	1977	6/6 Potential (Allele) Match	10/10	02:01	11:01	51:01	57:01	01:02	06:02	03:01	14:BCAD	02:01	05:03										
	Old	New	Latest	16/10/2013	DE	DEHAN.....54359	AV	MD	F	1967	4/4 AB Antigen Match	10/10	2	11	51	57	1	6													
	Old	New	Latest	16/10/2013	DE	DEDKM....400167	AV	MD	F	1959	4/4 AB Antigen Match	10/10	2	11	51	57	1	6													
	Old	New	Latest	16/10/2013	DE	DEWSZ....38916939	AV	MD	F	1959	4/4 AB Antigen Match	10/10	2	11	51	57	1	6													
	Old	New	Latest	16/10/2013	DE	DELSA..2963710704	AV	MD	F	1955	4/4 AB Antigen Match	10/10	2	11	51	57	1	6													
	Old	New	Latest	16/10/2013	DE	DEHUU...200930776	AV	MD	F	1986	4/4 AB Antigen Match	10/10	2	11	51	57															
	Old	New	Latest	16/10/2013	DE	DEMBG....2006399	AV	MD	M	1969	4/4 AB Antigen Match	10/10	2	11	51	57															
	Old	New	Latest	16/10/2013	DE	DEMAN.....15245	AV	MD	F	1968	4/4 AB Antigen Match	10/10	2	11	5	57															
	Old	New	Latest	16/10/2013	DE	DEWSZ....47671140	AV	MD	F	1968	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:TFE															
»	Old	New	Latest	16/10/2013	DE	DEAKB....855543	AV	MD	F	1968	4/4 AB Antigen Match	10/10	02:PXTZ	11:PXVE	51:RCDB	57:RCDU															
	Old	New	Latest	16/10/2013	DE	DECOL.....18600	AV	MD	M	1967	4/4 AB Antigen Match	10/10	2	11	51	57															
	Old	New	Latest	16/10/2013	DE	DEDKM....2603643	AV	MD	M	1965	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:GW															
	Old	New	Latest	16/10/2013	DE	DEDKM....2598791	AV	MD	F	1965	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:XX															
	Old	New	Latest	16/10/2013	DE	DEDKM....2653581	AV	MD	M	1965	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:XX															
	Old	New	Latest	16/10/2013	DE	DEDKM....2158679	AV	MD	F	1964	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:XX															
	Old	New	Latest	16/10/2013	DE	DEDKM....2323274	AV	MD	F	1964	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:XX															
	Old	New	Latest	16/10/2013	DE	DEDKM....3274287	AV	MD	F	1964	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:TFE															
	Old	New	Latest	16/10/2013	DE	DEDKM....2333464	AV	MD	F	1963	4/4 AB Antigen Match	10/10	02:XX	11:MN	51:XX	57:01															
	Old	New	Latest	16/10/2013	DE	DEDKM....2625274	AV	MD	F	1963	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:XX															
	Old	New	Latest	16/10/2013	DE	DEDKM....3058079	AV	MD	F	1963	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:TFE															
	Old	New	Latest	16/10/2013	DE	DEHAN...603621317	AV	MD	M	1962	4/4 AB Antigen Match	10/10	2	11	51	57															
	Old	New	Latest	16/10/2013	DE	DEDKM....834775	AV	MD	F	1962	4/4 AB Antigen Match	10/10	2	11	51	57															
	Old	New	Latest	16/10/2013	DE	DEDKM....2127981	AV	MD	F	1962	4/4 AB Antigen Match	10/10	02:XX	11:MN	51:XX	57:01															
	Old	New	Latest	16/10/2013	DE	DEDKM....2379903	AV	MD	F	1962	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:XX															
	Old	New	Latest	16/10/2013	DE	DEDKM....3203452	AV	MD	F	1962	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:TFE															
	Old	New	Latest	16/10/2013	DE	DEDKM....3123243	AV	MD	M	1962	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:TFE															
	Old	New	Latest	16/10/2013	DE	DEDKM....2148339	AV	MD	M	1961	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:XX															
	Old	New	Latest	16/10/2013	DE	DEDKM....2196181	AV	MD	F	1961	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:XX															
	Old	New	Latest	16/10/2013	DE	DEDKM....2268842	AV	MD	F	1961	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:XX															
	Old	New	Latest	16/10/2013	DE	DEDKM....2484488	AV	MD	F	1961	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:GW															
	Old	New	Latest	16/10/2013	DE	DEDKM....2599875	AV	MD	F	1961	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:GW															
	Old	New	Latest	16/10/2013	DE	DEDKM....2663879	AV	MD	F	1961	4/4 AB Antigen Match	10/10	02:XX	11:XX	51:XX	57:GW															

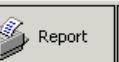
Potential match = no mismatches detected, even if only LR A B or A B DR is available

EMDIS Search Results: Visser, BE79401P

Patient | Summary of Donors | List of Donors | Donor - Details



10



Show/Hide Report Maker



A small icon of a stylized pen or pencil.



CBU Report Request

Drag a column header here to group by that column

BE79401P
Visser Simon

TC
BE

BAANS1

A 01:01
68:01

B 08:01
38:01

C 07:01
12:03

DRB1

01 D
05

iii	Msg	Donor Updat	Validity	Record Update	HUB	ID	State	Type	Sex	DOB	Match Grade	▼	Match Grade	<input checked="" type="checkbox"/> A.1 [01:01]	A.2 [68:01]	B.1 [08:01]	B.2 [38:01]	C.1 [07:01]	C.2 [12:03]	DR.1 [03:01]	DR.2 [04:05]	DQ.1 [02:01]	DQ.2 [03:02]
	Old	New	Latest	2/09/2013	US	US033516584	AV	MD	F	1963	6/6 Potential [Allele] Match	10/10	1	28	8	38				17	4		
	Old	New	Latest	2/09/2013	US	US015116866	AV	MD	F	1966	6/6 Potential [Allele] Match	10/10	1	28	8	38				03:01	04:FN		
►	Old	New	Latest	2/09/2013	US	US019899954	AV	MD	M	1958	6/6 Potential [Allele] Match	10/10	1	28	8	38				03:AD	04:PK		
	Old	New	Latest	2/09/2013	NL	NLNL10600950	AV	MD	M	1977	6/6 Potential [Allele] Match	10/10	01:BVNZ	68:AEBF	08:BRMZ	38:AF				03:01	04:XX	02:AD	03:02
+ New	Upd		Latest	5/09/2013	NL	NLNL00325826	TU	MD	F	1978	6/6 Potential [Allele] Match	10/10	01:XX	68:01	08:01	38:01	07:AAS	12:CF	03:MV	04:EG	02:XX	03:TF	
	Old	New	Latest	2/09/2013	DE	DEMBG.....2010907	AV	MD	F	1970	6/6 Potential [Allele] Match	10/10	01:XX	68:XX	08:XX	38:XX	07:XX	12:XX	03:XX	04:XX			
	Old	New	Latest	2/09/2013	DE	DEAKB.....728682	AV	MD	M	1964	6/6 Potential [Allele] Match	10/10	01:CRRH	68:CRZH	08:CPVH	38:01				03:XX	04:XX		
	Old	New	Latest	2/09/2013	DE	DEFFM.....80435	AV	MD	M	1983	6/6 Potential [Allele] Match	10/10	01:XX	68:XX	08:XX	38:XX				03:XX	04:XX		
	Old	New	Latest	2/09/2013	DE	DEKSH.....1011866	AV	MD	F	1981	6/6 Potential [Allele] Match	10/10	1	28	8	38				03:XX	04:XX		
	Old	New	Latest	2/09/2013	DE	DERKS....200004577	AV	MD	M	1977	6/6 Potential [Allele] Match	10/10	1	68	8	38	7			03:01	04:XX	02:01	03:02
	Old	New	Latest	2/09/2013	DE	DEWSZ....1079217	AV	MD	M	1976	6/6 Potential [Allele] Match	10/10	1	28	8	38	7			03:01	04:XX	02:01	03:02
	Old	New	Latest	2/09/2013	DE	DERKS....200014498	AV	MD	F	1974	6/6 Potential [Allele] Match	10/10	1	68	8	38	7			03:XX	04:XX	02:XX	03:XX
	Old	New	Latest	2/09/2013	DE	DEVKS....601101063	AV	MD	F	1970	6/6 Potential [Allele] Match	10/10	1	28	8	38	7			03:XX	04:XX		
	Old	New	Latest	2/09/2013	DE	DEKSH.....1009334	AV	MD	M	1959	6/6 Potential [Allele] Match	10/10	1	28	8	38				03:XX	04:XX		
	Old	New	Latest	2/09/2013	DE	DEDUS.....76705	AV	MD	M	1957	6/6 Potential [Allele] Match	10/10	1	28	8	38				03:01	04:XX	02:XX	03:NZY
	Old	New	Latest	2/09/2013	DE	DERKS....200014284	AV	MD	M	1957	6/6 Potential [Allele] Match	10/10	1	68	8	38	7			03:XX	04:XX	02:XX	03:XX
	Old	New	Latest	2/09/2013	DE	DEFFM.....68260	AV	MD	M	1954	6/6 Potential [Allele] Match	10/10	01:XX	68:XX	08:XX	38:XX				03:XX	04:XX		
+ New	Upd		Latest	11/11/2013	US	US130953375	AV	MD	M	1987	6/6 Allele Match	10/10	01:01	68:01	08:01	38:01	07:WTR	12:03	03:01	04:05	02:01	03:02	
+ New	Upd		Latest	11/11/2013	US	US091275255	AV	MD	M	1982	6/6 Allele Match	10/10	01:01	68:01	08:01	38:01	07:WTR	12:03	03:01	04:05	02:01	03:02	
	Old	New	Latest	1/09/2013	BE	BEKUL10205	AV	MD	F	1955	4/4 AB Antigen Match	10/10	1	28	8	38							
	Old	New	Latest	2/09/2013	US	US039345111	AV	MD	F	1976	4/4 AB Antigen Match	10/10	1	68	8	38							
	Old	New	Latest	2/09/2013	US	US002204196	AV	MD	F	1966	4/4 AB Antigen Match	10/10	1	68	8	38							
	Old	New	Latest	2/09/2013	US	US002322634	AV	MD	F	1968	4/4 AB Antigen Match	10/10	1	68	8	38							
	Old	New	Latest	2/09/2013	US	US018621235	AV	MD	M	1966	4/4 AB Antigen Match	10/10	1	68	8	38							
	Old	New	Latest	2/09/2013	US	US026229211	AV	MD	F	1965	4/4 AB Antigen Match	10/10	1	68	8	38							
	Old	New	Latest	2/09/2013	US	US012619763	AV	MD	F	1962	4/4 AB Antigen Match	10/10	1	68	8	38							
	Old	New	Latest	2/09/2013	US	US013147608	AV	MD	F	1959	4/4 AB Antigen Match	10/10	1	68	8	38							
	Old	New	Latest	2/09/2013	US	US026361386	AV	MD	M	1976	4/4 AB Antigen Match	10/10	1	28	8	38							
	Old	New	Latest	2/09/2013	US	US032994691	AV	MD	F	1977	4/4 AB Antigen Match	10/10	1	28	8	38							
	Old	New	Latest	2/09/2013	US	US002692226	AV	MD	M	1966	4/4 AB Antigen Match	10/10	1	28	8	38							
	Old	New	Latest	2/09/2013	US	US003041027	AV	MD	M	1965	4/4 AB Antigen Match	10/10	1	28	8	38							
	Old	New	Latest	2/09/2013	US	US003137650	AV	MD	M	1966	4/4 AB Antigen Match	10/10	1	28	8	38							
	Old	New	Latest	2/09/2013	US	US0292452222	AV	MD	M	1966	4/4 AB Antigen Match	10/10	1	28	8	38							

(Match Grade = 10)





Multiple Allele Codes



Msg	Donor Updat	Validity	Record Update	HUB	ID	State	Type	Sex	DOB	Match Grade	Match Grade	BE79401P Visser Simon		TC BETRAANS1		A 01:01		B 08:01		C 07:01		DRB1 03:01		DQB1 02:01	
												A.1 [01:01]	A.2 [68:01]	B.1 [08:01]	B.2 [38:01]	C.1 [07:01]	C.2 [12:03]	DR.1 [03:01]	DR.2 [04:05]	DQ.1 [02:01]	DQ.2 [03:02]				
Old	New	Latest	2/09/2013	US	US098874308	AV	MD	F	1978	6/6 Antig.Match - Allele MM	9/10	01:EJSW	68:CAKR	08:XKT	38:BPSA			03:01		04:01					
Old	New	Latest	2/09/2013	US	US020630174	AV	MD	F	1965	6/6 Antig.Match - Allele MM	9/10	1	28	8	38					03:YH	04:YK				
Old	New	Latest	2/09/2013	US	US023283815	AV	MD	M	1977	6/6 Antig.Match - Allele MM	9/10	1	68	8	38				03:01	04:BK					
Old	New	Latest	2/09/2013	US	US997510244	AV	CB	F	2002	6/6 Antig.Match - Allele MM	9/10	01:CRY	68:01	08:XKT	38:01	07:WTR	12:03	03:01	04:01	02:01	03:02				
Old	New	Latest	2/09/2013	DE	DESMS.....497830	AV	MD	M	1991	6/6 Antig.Match - Allele MM	9/10	01:01	68:01	08:01	38:01	07:WTR	12:03	03:01	04:02	02:01	03:02				
Old	New	Latest	2/09/2013	DE	DEDKM....5281576	AV	MD	M	1988	6/6 Antig.Match - Allele MM	9/10	01:KTMG	68:CAKR	08:XKT	38:01	07:JAUP	12:CNB	03:AUCN	04:02	02:01:01	03:02:01				
Old	New	Latest	2/09/2013	DE	DEDKM....6213588	AV	MD	F	1988	6/6 Antig.Match - Allele MM	9/10	01:TFDY	68:RDZA	08:XKT	38:01	07:JECH	12:CNB	03:01	04:02	02:01:01	03:02:01				
Old	New	Latest	2/09/2013	DE	DEDKM....5924542	AV	MD	M	1969	6/6 Antig.Match - Allele MM	9/10	01:RDSU	68:RDZA	08:XKT	38:01	07:JECH	12:CNB	03:NFTN	04:02	02:01:01	03:02:01				
Old	New	Latest	2/09/2013	DE	DEDKM....6457095	AV	MD	F	1965	6/6 Antig.Match - Allele MM	9/10	01:01:01	68:01:02	08:01:01	38:01:01	07:01:01	12:03:01	03:01:01	04:02:0	02:01:01	03:02:01				
Old	New	Latest	2/09/2013	DE	DEDKM....5543954	AV	MD	F	1993	6/6 Antig.Match - Allele MM	9/10	01:KTEM	68:DGGM	08:XKT	38:01:01	07:CVKN	12:BCK	03:01:01	04:02	02:MS	03:02:01				
Old	New	Latest	2/09/2013	DE	DEDKM....5129242	AV	MD	F	1991	6/6 Antig.Match - Allele MM	9/10	01:KTEM	68:DGGM	08:XKT	38:01:01	07:CVKN	12:BCK	03:01:01	04:02	02:MS	03:02:01				
Old	New	Latest	2/09/2013	DE	DEDKM....5474510	AV	MD	M	1989	6/6 Antig.Match - Allele MM	9/10	01:KTEM	68:DGGM	08:XKT	38:01:01	07:CVKN	12:BCK	03:01:01	04:02	02:MS	03:02:01				
Old	New	Latest	2/09/2013	DE	DEVKS.....60111160	AV	MD	M	1987	6/6 Antig.Match - Allele MM	9/10	01:KTEM	68:DGGM	08:XKT	38:01:01	07:CVKN	12:BCK	03:01:01	04:02	02:MS	03:02:01				
Old	New	Latest	2/09/2013	DE	DEDKM....3176740	AV	MD	F	1986	6/6 Antig.Match - Allele MM	9/10	01:BYSG	68:GJF	08:XKT	38:01:01	07:WTR	12:03:01	03:01:01	04:02						
Old	New	Latest	2/09/2013	DE	DEDKM....6279742	AV	MD	M	1985	6/6 Antig.Match - Allele MM	9/10	01:KNHM	68:CAKR	08:XKT	38:01:01	07:JUEP	12:GMAX	03:01	04:02:0	02:EAN	03:RCH				
Old	New	Latest	2/09/2013	DE	DEPLDKM-324736	AV	MD	F	1985	6/6 Antig.Match - Allele MM	9/10	01:KTKP	68:01	08:XKT	38:01:01	07:CVKN	12:BCK	03:01:01	04:02	02:MS	03:02:01				
Old	New	Latest	2/09/2013	DE	DEDKM....4008023	AV	MD	M	1984	6/6 Antig.Match - Allele MM	9/10	01:DUHE	68:DGGM	08:XKT	38:01:01	07:CVKN	12:BCK	03:01:01	04:02	02:EAN	03:RCH				
+ Old	Upd	Latest	13/09/2013	DE	DEDKM....3347952	AV	MD	F	1983	6/6 Antig.Match - Allele MM	9/10	01:DUHE	68:DGGM	08:XKT	38:01:01	07:CVKN	12:BCK	03:01:01	04:02	02:EAN	03:RCH				
Old	New	Latest	2/09/2013	DE	DEDKM....4247520	AV	MD	M	1983	6/6 Antig.Match - Allele MM	9/10	01:KTEM	68:DGGM	08:XKT	38:01:01	07:CVKN	12:BCK	03:01:01	04:02	02:MS	03:02:01				
Old	New	Latest	2/09/2013	DE	DERKS.....900115133	AV	MD	F	1982	6/6 Antig.Match - Allele MM	9/10	01:01	68:01	08:01	38:01:01	07:01	12:03	03:01	04:02						
Old	New	Latest	2/09/2013	DE	DEDKM....2888576	AV	MD	F	1980	6/6 Antig.Match - Allele MM	9/10	01:CPZT	68:CCXJ	08:XKT	38:01:01	07:APAW	12:BCK	03:01:01	04:02						
Old	New	Latest	2/09/2013	DE	DEDKM....5256192	AV	MD	M	1976	6/6 Antig.Match - Allele MM	9/10	01:KTEM	68:DGGM	08:XKT	38:01:01	07:CVKN	12:BCK	03:01:01	04:02	02:MS	03:02:01				
Old	New	Latest	2/09/2013	DE	DEDKM....2837855	AV	MD	F	1975	6/6 Antig.Match - Allele MM	9/10	01:TUS	68:AZWA	08:XX	38:AF			03:01:01	04:02						
Old	New	Latest	2/09/2013	DE	DEDKM....6046494	AV	MD	F	1974	6/6 Antig.Match - Allele MM	9/10	01:KNHM	68:CAKR	08:XKT	38:01:01	07:JUEP	12:GMAX	03:01	04:02:0	02:EAN	03:RCH				
Old	New	Latest	2/09/2013	DE	DEVKS.....60111204	AV	MD	M	1973	6/6 Antig.Match - Allele MM	9/10	01:KNHM	68:CAKR	08:XKT	38:01:01	07:JUEP	12:GMAX	03:01	04:02:0	02:EAN	03:RCH				
Old	New	Latest	2/09/2013	DE	DEVKS.....60110907	AV	MD	M	1972	6/6 Antig.Match - Allele MM	9/10	01:KTEM	68:DGGM	08:XKT	38:01:01	07:CVKN	12:BCK	03:01:01	04:02	02:MS	03:02:01				
Old	New	Latest	2/09/2013	DE	DEPLDKM-475273	AV	MD	M	1971	6/6 Antig.Match - Allele MM	9/10	01:KNHM	68:CAKR	08:XKT	38:01:01	07:JUEP	12:GMAX	03:01	04:01:0	02:EAN	03:RCH				
Old	New	Latest	2/09/2013	DE	DEDKM....5147520	AV	MD	F	1968	6/6 Antig.Match - Allele MM	9/10	01:KTEM	68:DGGM	08:XKT	38:01:01	07:CVKN	12:BCK	03:01:01	04:01:0	02:MS	03:02:01				
Old	New	Latest	2/09/2013	DE	DEAKB.....158355	AV	MD	F	1966	6/6 Antig.Match - Allele MM	9/10	01:PYXR	68:PZCK	08:PYKF	38:PYPB	07:KFEW	12:KFDN	03:PYVF	04:02	02:01	03:SFY				
Old	New	Latest	2/09/2013	DE	DEDKM....3354864	AV	MD	M	1966	6/6 Antig.Match - Allele MM	9/10	01:BYSG	68:GJF	08:XKT	38:01:01	07:WTR	12:03:01	03:01:01	04:02						
Old	New	Latest	2/09/2013	DE	DEDKM....3909163	AV	MD	M	1965	6/6 Antig.Match - Allele MM	9/10	01:DUHE	68:DGGM	08:XKT	38:01:01	07:CVKN	12:BCK	03:01:01	04:01:0						
Old	New	Latest	2/09/2013	DE	DEDKM....5253759	AV	MD	F	1958	6/6 Antig.Match - Allele MM	9/10	01:KTEM	68:DGGM	08:XKT	38:01:01	07:CVKN	12:BCK	03:01:01	04:02	02:MS	03:02:01				
Old	New	Latest	2/09/2013	DE	DEDKM....83207	AV	MD	F	1973	6/6 Antig.Match - Allele MM	9/10	1	28	8	38			03:JED	04:BK						

((Match Grade = 10) or (Match Grade = 9))

Customize

Customize

1

1

Count: 344

Suppose that 0 MM donor is not available; is DRB1 mismatch accepted?

EMDIS Search Results: Rogiers, BE85025P

Patient | Summary of Donors | List of Donors | Donor - Details |

	Sorting	Multiple Allele Codes	Report	Show/Hide Report Maker	Custom Report	Typing Request	Sample Request	CBU Report Request														
Drag a column header here to group by that column																						
Init	Msg	Donor Updat	Validity	Record Update	HUB	ID	State	Type	Sex	DOB	Match Grade	Match Grade	A.1 [26:01]	A.2 [33:03]	B.1 [58:01]	B.2 [03:03]	C.1 [03:02]	C.2 [11:01]	DR.1 [13:02]	DR.2 [03:01]	DQ.1 [06:09]	
	[+ New	Upd	Latest	16/11/2013	DE	DEDKM.....5552696	RS	MD	F	1971	6/6 Potential (Allele) Match	10/10	26:JCKB	33:KNHH	55:01	58:PCSA	03:FJUM	03:02	11:KNBT	13:02	03:01	06:09
	Old	New	Latest	13/11/2013	DE	DEDKM....2456105	AV	MD	M	1973	6/6 Potential (Allele) Match	10/10	26:KXM	33:DWH	55:XX	58:AD			11:BBMH	13:APS		
	Old	New	Latest	13/11/2013	DE	DEMBG....1008481	AV	MD	F	1974	6/6 Potential (Allele) Match	10/10	26:XX	33:XX	55:XX	58:XX	03:XX		11:XX	13:XX		
	Old	New	Latest	13/11/2013	DE	DEDKM....4313800	AV	MD	F	1991	6/6 Potential (Allele) Match	9/10	26:GAX	33:BEKE	55:01	58:VE	01:02	03:02	11:01:01	13:02:01		
	Old	New	Latest	13/11/2013	FR	FRFPO07489	AV	MD	M	1962	6/6 Potential (Allele) Match	10/10	26:GAX	33:FEAM	55:01	58:VE	03:BPSK	03:02	11:04:0	13:02:01	03:ENW	06:09
	Old	New	Latest	13/11/2013	DE	DEDKM....4328705	AV	MD	M	1967	6/6 Antig. Match - Allele MM	9/10	26:GAX	33:03:01	55:01	58:VE	03:BPSK	03:02	11:UPH	13:ANK		
	Old	New	Latest	13/11/2013	DE	DEDKM....3057856	AV	MD	F	1980	6/6 Antig. Match - Allele MM	9/10	26:GAX	33:03:01	55:01	58:VE	03:BPSK	03:02	11:03	13:02		
	Old	New	Latest	13/11/2013	DE	DEDKM....2912081	AV	MD	F	1978	6/6 Antig. Match - Allele MM	9/10	26:KXM	33:DWH	55:ARJG	58:AD			11:03	13:02		
	Old	New	Latest	13/11/2013	DE	DEDKM....3009546	AV	MD	F	1960	6/6 Antig. Match - Allele MM	9/10	26:BMW	33:DWH	55:XX	58:AD			11:03	13:02		
	Old	New	Latest	13/11/2013	DE	DEDKM....3847151	AV	MD	M	1959	6/6 Antig. Match - Allele MM	9/10	26:GAX	33:BEKE	55:01	58:VE	03:BPSK	03:02	11:03	13:02:01		
	Old	New	Latest	13/11/2013	DE	DEMAN....11538	AV	MD	F	1971	6/6 Antig. Match - Allele MM	9/10	26:01	33:03	55:01	58:01	03:03	03:02	11:01	13:03		
	Old	New	Latest	13/11/2013	DE	DEDKM....6315458	AV	MD	M	1964	5/6 Antigen Match	9/10	01:RGP	33:KNHH	55:01	58:PCSA	03:VUSX	03:TEXA	11:CTPB	13:02	03:01	06:09
>	Old	New	Latest	13/11/2013	DE	DEPLDKM-42145	AV	MD	M	1984	5/6 Antigen Match	9/10	26:GAX	33:FEAM	55:01	58:VE	03:BPSK	03:02	10:01:0	13:02:01		
	Old	New	Latest	13/11/2013	DE	DEDKM....2778184	AV	MD	F	1973	5/6 Antigen Match	9/10	01:WUS	33:DWH	55:ARJG	58:AD			11:CTPB	13:02		
	Old	New	Latest	13/11/2013	DE	DEHAN....196416	AV	MD	F	1965	5/6 Antigen Match	9/10	26:XX	66:XX	55:XX	58:XX			11:DFYK	13:CAXA		
	Old	New	Latest	13/11/2013	DE	DEULM....70789	AV	MD	M	1960	5/6 Antigen Match	9/10	26:01	24:02	55:01	58:01	03:03	03:02	11:01	13:02		
	Old	New	Latest	13/11/2013	DE	DEULM....70723	AV	MD	M	1955	5/6 Antigen Match	9/10	26:01	24:02	55:01	58:01	03:03	03:02	11:01	13:02		
	Old	New	Latest	13/11/2013	DE	DEDUS....104878	AV	MD	F	1966	5/6 Antigen Match	9/10	1	33	55	58			11:XX	13:XX	03:XX	06:XX
	Old	New	Latest	13/11/2013	DE	DEFFM....87480	AV	MD	M	1955	5/6 Antigen Match	9/10	26:01	33:AC	15:01	58:01			11:01	13:02		
	Old	New	Latest	13/11/2013	DE	DEHAN....369316	AV	MD	M	1989	5/6 Antigen Match	9/10	24:DGJI	33:CVPU	55:DHRC	58:CCVS			11:DFYK	13:CAXA		
	Old	New	Latest	13/11/2013	DE	DEDKM....2795161	AV	MD	F	1975	5/6 Antigen Match	9/10	24:AZW	33:DWH	55:ARJG	58:AD			11:BBMH	13:APS		
	Old	New	Latest	13/11/2013	DE	DEDKM....873649	AV	MD	F	1963	5/6 Antigen Match	9/10	2	33	55	58			11:XX	13:XX		
	Old	New	Latest	13/11/2013	DE	DEDKM....3550915	AV	MD	F	1968	5/6 Antigen Match	9/10	26:GAX	33:03:01	55:01	58:VE	03:BPSK	03:02	11:CVDZ	14:CVE		
	Old	New	Latest	13/11/2013	DE	DEAKB....990988	AV	MD	M	1968	5/6 Antigen Match	9/10	26:01:01	33:03:01	55:01:01	58:01:01			07:01:0	13:02:01		
	Old	New	Latest	13/11/2013	DE	DEDKM....2371756	AV	MD	M	1965	5/6 Antigen Match	9/10	26:XX	33:XX	55:XX	58:XX			11:01	09:01		
	Old	New	Latest	13/11/2013	DE	DEWUE....17105	AV	MD	F	1990	5/6 Antigen Match	9/10	26:XX	33:XX	35:XX	58:XX			11:01	13:02		
	Old	New	Latest	13/11/2013	DE	DESMS....527066	AV	MD	M	1986	5/6 Antigen Match	9/10	26:01	33:03	40:01	58:01			11:01	13:02		
	Old	New	Latest	13/11/2013	DE	DEDKM....2518009	AV	MD	M	1979	5/6 Antigen Match	9/10	26:KXM	33:CF	07:XX	58:01			11:ARZK	13:BMM		
	Old	New	Latest	13/11/2013	DE	DEDKM....2717905	AV	MD	F	1959	5/6 Antigen Match	9/10	26:KXM	33:DWH	51:XX	58:XX			11:01	13:02		
	Old	New	Latest	13/11/2013	DE	DEDKM....2638865	AV	MD	M	1956	5/6 Antigen Match	9/10	26:XX	33:XX	35:XX	58:01			11:BBMH	13:APS		
	Old	New	Latest	13/11/2013	DE	DEAKB....728053	AV	MD	M	1985	5/6 Antigen Match	9/10	26:CFXP	33:CNY	55:ANDE	58:UTW			11:01P	03:01P		
	Old	New	Latest	13/11/2013	DE	DEWSZ....1098690	AV	MD	M	1984	5/6 Antigen Match	9/10	26:XX	33:XX	39:XX	58:XX			11:01	13:02	03:01	06:XX
	Old	New	Latest	13/11/2013	DE	DEBBB....19924	AV	MD	F	1983	5/6 Antigen Match	9/10	26:XX	33:XX	18:XX	58:XX			11:XX	13:XX		

((Match Grade = 6/6 Potential (Allele) Match) or (Match Grade = 6/6 Antig. Match - Allele MM) or (Match Grade = 5/6 Antigen Match)) and ((Match Grade = 10) or (Match Grade = 9))

Customize...



5/6 Antigen Match

Count: 36

BEKULAA210785														TC BETRAANSI		A 03:01	B 35:08	C 01:02	DRB1 11:03	DQB1 03:01		
	Msg	Donor Updat	Validity	Record Update	HUB	ID	State	Type	Sex	DOB	Match Grade	Match	A.1 [03:01]	A.2 [24:02]	B.1 [35:08]	B.2 [55:01]	C.1 [01:02]	C.2 [04:JKT]	DR.1 [11:03]	DR.2 [13:01]	DQ.1 [03:01]	DQ.2 [06:03]
►	Old	New	Latest	3/04/2013	BE	BEANT0000137	AV	MD	M	1959	5/6 Antigen Match	9/10	3	9	35	44			11	6	3	1
	Old	New	Latest	3/04/2013	BE	BEANT0000371	AV	MD	M	1959	5/6 Antigen Match	9/10	3	9	7	22			11	6	3	1
	Old	Dupl	Latest	8/10/2013	BE	BEANT0004698	AV	MD	F	1955	6/6 Antig.Match - Allele MM	9/10	3	9	35	22			11:MS	13:XJ		
	Old	New	Latest	3/04/2013	BE	BEANT0005132	AV	MD	F	1955	5/6 Antigen Match	9/10	3	24	35	22			11:GX	01:AD		
	Old	New	Latest	3/04/2013	BE	BEANT0005618	AV	MD	M	1971	5/6 Antigen Match	9/10	3	24	35	7			11	13		
	Old	New	Latest	3/04/2013	BE	BEANT0007108	AV	MD	M	1964	5/6 Antigen Match	9/10	3	24	35	22			01:AD	13:XJ		
	Old	New	Latest	3/04/2013	BE	BEBT000069806	AV	MD	M	1971	5/6 Antigen Match	9/10	3	24	35	55			01:XX	13:XX		
	Old	New	Latest	3/04/2013	BE	BEKUL11314	AV	MD	M	1970	5/6 Antigen Match	9/10	3	24	35	27	1	4	11	13	7	6
	Old	New	Latest	3/04/2013	BE	BEKUL18228	AV	MD	M	1962	5/6 Antigen Match	9/10	3	24	35	51	1		11	13	7	6
	Old	New	Latest	3/04/2013	BE	BEUCL0320636	AV	MD	M	1971	5/6 Antigen Match	9/10	3	24	35	62			11:03	13:01	7	1
	Old	New	Latest	3/04/2013	BE	BEULBCM003762	AV	MD	F	1966	5/6 Antigen Match	9/10	11	24	35	55			11:XX	13:XX	7	6
	Old	New	Latest	3/04/2013	BE	BEULBDV005492	AV	MD	F	1975	5/6 Antigen Match	9/10	3	24	35	49			11:XX	13:XX		
	Old	New	Latest	3/04/2013	BE	BEULBV003872	AV	MD	F	1957	5/6 Antigen Match	9/10	3	24	35	7			11	6	7	1
	Old	New	Latest	3/04/2013	BE	BEVBU00000692	AV	MD	M	1963	5/6 Antigen Match	9/10	3	24	35	7	4	1	11:XX	13:XX		
	Old	New	Latest	3/04/2013	BE	BECB030008001882	AV	CB	F	2008	5/6 Antigen Match	9/10	03:XX	24:XX	35:XX	55:XX			16:XX	13:XX		
	Old	New	Latest	3/04/2013	BE	BECB030009000954	AV	CB	F	2009	5/6 Antigen Match	9/10	03:XX	24:XX	35:XX	55:XX			11:XX	04:XX		
	Old	New	Latest	3/04/2013	BE	BECB030010001768	AV	CB	F	2010	5/6 Antigen Match	9/10	03:XX	24:XX	35:XX	15:XX			11:XX	13:XX		
	Old	New	Latest	3/04/2013	BE	BECBLVCB002095	AV	CB	F	2001	5/6 Antigen Match	9/10	03:XX	24:XX	35:XX	55:XX			01:MV	13:GVA		
	Old	New	Latest	3/04/2013	BE	BECBLVCB002411	AV	CB	F	2001	5/6 Antigen Match	9/10	03:XX	24:XX	35:XX	55:XX			14:MX	13:GVA		
	Old	New	Latest	3/04/2013	BE	BECBLVCB012158	AV	CB	F	2012	5/6 Antigen Match	9/10	03:XX	24:XX	35:XX	55:XX			15:AB	13:AB		

What was found? many 9/10 potential matches; C & DQ and/or DRB1& DQ not typed yet

C & DQ: it depends on HLA type of the patient if donor with minimal 9/10 match will be found

Transplant center decided to proceed with Haplo/cord transplantation

Frequently encountered problems:

- An HR HLA-DRB1 2nd field mismatch can result in an additional HLA-DQ mismatch
- An HR HLA-B 2nd field mismatch will often result in an additional HLA-C mismatch
- HLA-B C linkage is less strong than an HLA-DRB1/DQB1 linkage (often 9/10 match due to HLA-C mismatch)



Consider HLA-DQ when grading match results *

Extended sorting on locus **

 HLA-A HLA-B HLA-DRB1 None

Sort cord blood units on TNC within each match category ****

Include additional data in the match results

Include 2 and 3 NIMA in match*****

* If the recipient is not typed for HLA-C or HLA-DQ, then enabling these preferences do not effect the search process.

** Sorts donors and cords blood units with high-resolution DNA to the top of the match category they are in.

**** Only applies to the cord blood match. With this option enabled HLA of the cord blood units is not included in the sorting within each match category.

***** Only applies to the NIMA match. With this option enabled cord blood units with 2 or 3 NIMA's are also used.

! Important notice: the regular match program and the mismatch program provide results upto 1 antigen/allele mismatch (6/6 and 5/6 matches). When the options to consider HLA-C and HLA-DQ are used, a donor or CBU with one mismatch on HLA-A, -B, or -DRB1, and an additional mismatch on HLA-C or -DQ results in the donor or CBU no longer being shown on the search report, due to this second mismatch. See the user guide for more details.

Options for this matchrun

Do NOT paginate the output

Select the type of match to run

Regular Match Program

Mismatch on HLA-A
 Mismatch on HLA-B
 Mismatch on HLA-DR

CBU Match Program:

Identical & 1 antigen/allele mismatch
 2 antigen/allele mismatches

NIMA Match Program:

Identical Matches

Search

- Extended sorting on DRB1
- Only identical and 1 allele/antigen mismatch
- Sorted on TNC

A	B	C	DRB1	DQB1	Reg	#	Additional details		
					ID		TNC (10 ⁷)	Vol. (ml)	CD34+MN (10 ⁶) (10 ⁷)
03:01	24:02:01:02L35:08	55:01	01:02	04:JKTU	11:03	13:01	03:01	06:03	
Potentially (Allele) Matched:									
03:XX	24:XX	55:XX	35:XX	11:XX	13:XX		ATCB	M0005 11 031962	104 19 2.7
HLA-A or -B Allele/Split Antigen Mismatched:									
3	24	<u>56</u>	35	11:XX	13:XX		DUCB	DUCB02627	92 24
HLA-DR Allele/Split Antigen Mismatched:									
03:XX	24:XX	55:XX	35:XX	01:XX	04:XX	11:XX	<u>14:XX</u>	03:XX	05:XX NICB CY1129954D 185 120 2.7
03:XX	24:XX	55:XX	35:XX			<u>11:01</u>	13:01		ECB SPUCLBAR0048259 137 2
03:DGBS	<u>24:DGBT</u>	55:SMK	35:BZVK	01:02	04:BSUG	<u>11:JECW</u>	13:MTWH		FCB 59126070925 106 68 8.2

- Extended sorting on DRB1
- Only 2 allele/antigen mismatches
- Sorted on TNC

A	B	C	DRB1	DQB1	Reg	#	Additional details		
					ID		TNC (10 ⁷)	Vol. (ml)	CD34+MN (10 ⁶) (10 ⁷)
03:01	24:02:01:02L35:08	55:01	01:02	04:JKTU	11:03	13:01	03:01	06:03	
Two Allele/Antigen Mismatched:									
03:XKS	<u>24:02</u>	<u>15:GYF</u>	<u>35:14</u>		<u>16:02</u>	13:01		ACCB 6507037	361 144 11
03:01	<u>24:02</u>	<u>35:01</u>	<u>35:14</u>		<u>16:02</u>	13:01		NYCB 901361	346 212 23.2
<u>02:XX</u>	03:XX	55:XX	35:XX		<u>01:XX</u>	13:XX		BCB BECB014611060080	293 134
03:XX	24:XX	<u>15:XX</u>	35:XX		<u>13:01</u>	<u>14:BCAD</u>		BCB BECBLVVCB009704	292 191 90
03:KAKM	<u>24:KAKN</u>	<u>38:01</u>	<u>35:01</u>		<u>13:01</u>	<u>13:03</u>		SRCB 700040001332300	282 123 23.4
03:01	<u>24:02</u>	<u>15:01</u>	<u>35:03</u>	04:JERF	03:BPSK	13:MJMR	<u>04:03</u>	03:02 06:03	U1CB 989839551 274 96
03:01:01G	24:02:01G	<u>38:01</u>	35:01:01G	04:XX	12:XX	<u>01:01</u>	13:01	05:01	SRCB 700040000884200 268 179 3.6
03:REYJ	<u>24:ETFC</u>	<u>50:KEBX</u>	<u>35:RCRU</u>	04:RCEK	06:RCEN	<u>04:AAHZ</u>	13:PYWK		FCB 0000008099R 265 161 7.4
<u>02:CGAE</u>	03:EKN	<u>14:01</u>	<u>35:ENSJ</u>			<u>11:03</u>	<u>13:01</u>		ACCB 6541329 265 125 10.1
03:01		55:01	<u>35:03</u>			<u>13:01</u>	<u>14:54</u>		ICB 05PDCB10507 257
03:01	<u>24:02</u>	<u>38:01</u>	<u>35:01</u>	04:01	12:03	<u>15:01</u>	13:01		ECB SPUCLBAR0040938 256 18
03:XX		<u>07:XX</u>	35:XX			<u>11:XX</u>	13:XX		BCB BECB030010001058 255 89
03:XKS	<u>24:WYU</u>	<u>44:AMUT</u>	<u>35:TDS</u>	05:01	04:CXBM	<u>11:01</u>	13:01	03:01 06:03	U1CB 996202405 252 136
<u>24:ENXY</u>	<u>11:ENTP</u>	55:ABSC	35:08	12:AUCW	03:WZTV	<u>13:01</u>	<u>07:01</u>		U1CB 992062332 248 88
03:XX	<u>66:XX</u>	<u>58:XX</u>	35:XX			<u>11:XX</u>	13:XX		W3CB 1390 243 93
03:XX	<u>30:XX</u>	<u>18:XX</u>	35:XX			<u>11:XX</u>	13:XX		ILCB 260157 237 25

Take home message

- ✓ > 95 % chance to find a 10/10 HR match
 - ✓ Many donors available
 - ✓ Other markers than HLA can be taken into account (ABO/Sex/CMV)
- ✓ < 5 % chance to find a 10/10 or 9/10 match
 - ✓ Alternative donor (on request of the transplant physician)
 - ✓ (Haplo / CB / MM)
- ✓ Intermediate Chance:
 - ✓ Search for 3 months, ask for HR typings and inform clinician on the status (this group becomes smaller as more donors are available & high resolution typed). Try to make a prediction based on linkage disequilibrium & frequency data.

Take home message

- ✓ A real 10/10 match = a 10/10 allelic (2nd Field) match
- ✓ highly polymorphic alleles (e.g. HLA-B44) if only 1st field results in query (e.g. HLA-B*44:XX) -> HR typing required to decide
- ✓ Very low polymorphic alleles (e.g. HLA-B8, HLA-DR7) if only 1st field in query (e.g. HLA-B*08:XX) -> HR typing not required to decide
- ✓ Allelic mismatches (2nd field) are preferred to antigenic mismatches (1st field)
- ✓ Before recruiting a donor, the HLA typing has to be confirmed in the HLA lab of the transplantcenter

