

REPORT OF THE 380th CELL EXCHANGE

APRIL 9, 2014

B-cell Lines	499-500
Cells	1517-1520

B-cell Line Exchange #250

The results for B-cell Line Exchange #250 are summarized on Tables 1 - 2 and individual laboratory results reported for each cell are listed in Tables 3 -

6. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, bioinformatics.nmdp.org.

Ter-499. The consensus type for this Black sample is DRB1*04:05-DRB1*14:02-DRB3*01:01-DRB4*01:03-DQA1*03:03-DQA1*05:03-DQB1*03:01-DQB1*03:02-DPA1*01:03-DPA1*02:01-DPB1*01:01-DPB1*04:02-A*01:01-A*02:01-B*35:04-B*82:01-C*03:02-C*04:01. One likely haplotype in this cell is DRB1*04:05-DRB4*01:03-DQA1*03:03-DQB1*03:02, as observed in previous Exchange cells Ter 414 (same as Ter 323), Ter 233, and Ter 234. The other probable association is DRB1*14:02-DRB3*01:01-DQA1*05:03-DQB1*03:01, as observed in Ter 280.

This sample is RB22 (1), the reference cell for B*35:04 and MICA*043. It was previously typed as Ter 266 (2000) and Ter 239(1999), as correctly identified by Han, Lopez-Cepero, and Tiercy. In this present retyping, DRB1*04:05 and DRB1*14:02 were assigned by 48% and 52%, respectively, compared to 69% and 72% in 2000. DRB1*04:05:01 was assigned by 6 labs. DRB4*01:01/03/05, denoted as DRB4*01:01:01G, was reported by 4 labs.

This sample was also typed for class I as extracts 432 (2008), 301 (2004), and 87 (1999). In this present typing, B*35:04 and B*82:01 were assigned by 55% and 52%, respectively, compared to 57% and 47% in 2008. B*35:04:01 was assigned by 4 labs.

Ter-500. The consensus type for this Vietnamese sample is DRB1*04:03-DRB1*14:54-DRB3*02:02-DRB4*01:03-DQA1*01:04-DQA1*03:01-DQB1*03:02-

DQB1*05:02-DPA1*01:03-DPB1*02:01-A*02:03-A*02:07-B*38:02-B*46:01-C*01:02-C*07:02. One likely haplotype in this cell is A*02:03-B*38:02-DRB1*04:03-DQB1*03:02, observed exclusively in Asians, with HF=0.00177. The other probable haplotype may then be A*02:07-B*46:01-DRB1*14:54-DQB1*05:02. Tiercy commented that the DRB1*14:54-DQB1*05:02 association in this cell is not observed in European populations.

This cell was previously typed as Ter 261 (2000), as astutely noted by Lopez-Cepero and Tiercy. In this present retyping, DRB1*14:54 was assigned by 34%, whereas in 2000, DRB1*14:01 (64%) was the assigned type. DRB1*14:54:01 was assigned by 3 labs. DRB1*14:54 was officially assigned in 2005. DRB1*15:54 differs from DRB1*14:01 in exon 3 by a single nucleotide substitution at codon 112 (TAC to CAC), resulting in an amino acid change from tyrosine to histidine (2). DRB1*04:03 was assigned by 48%, a decrease from a detection level of 70% in 2000. DRB1*04:03:01 was reported by 6 labs. DRB4*01:01/03/06 was assigned by 4 labs and denoted as DRB4*01:01:01G. DQA1*03:01/02/03, denoted as DQA1*03:01:01G, was reported by 7 labs.

This sample was also typed for class I as extract 169 (2001). Two different subtypes of A*02 were detected in this cell, A*02:03 (36%) and A*02:07 (36%). In 2001, only 17% of labs assigned A*02:07, while A*02:03 was reported by 47%. B*38:02 and B*46:01 were each assigned by 48% in this retyping, with 3 labs assigning B*38:02:01 and B*46:01:01.

References:

1. Ellexson M, Stewart D, Chretien P, et al. Description of a modified strategy and the molecular characterization of HLA-B*82:01. Tissue Antigens 1996;47:438.
2. Yang KL, Chen MJ, Lee SK, et al. New allele name of some HLA-DRB1*1401:HLA-DRB1*1454. Int J Immunogenet 2009 Apr; 36(2) :119-120.

Table 1: Summary of the 250th B-cell Line Exchange

Ter-499

DNA Typing - class II	61 LABS - DRB1	%(n)
	DRB1*04:05:01	10(6)
	DRB1*04:05	38(23)
	DRB1*04:05+	14(9)
	DRB1*04	38(23)
	DRB1*14:02	52(32)
	<i>DRB1*14:09</i>	1 (1)
DRB1*14:02+	13(8)	
DRB1*14	33(20)	

40 LABS - DRB3	
DRB3*01:01:02	2 (1)
DRB3*01:01	43(17)
DRB3*01:01/11	12(5)
DRB3*01	23(9)
DRB3*+	20(8)
40 LABS - DRB4	
DRB4*01:01:01G	10(4)
DRB4*01:03	48(19)
DRB4*01	21(8)
DRB4*+	21(8)

32 LABS - DQA1	%(n)
DQA1*03:03	38(12)
DQA1*03:03+	28(9)
DQA1*03	34(11)
DQA1*05:03	38(12)
DQA1*05:03+	28(9)
DQA1*05	34(11)

58 LABS - DQB1	%(n)
DQB1*03:01:01	3 (2)
DQB1*03:01:01G	3 (2)
DQB1*03:01	40(23)
DQB1*03:01+	19(11)
DQB1*03(DQ7)	7 (4)
DQB1*03	28(16)
DQB1*03:02:01	7 (4)
DQB1*03:02	46(27)
DQB1*03:02+	14(8)
DQB1*03(DQ8)	7 (4)
DQB1*03	26(15)

12 LABS - DPA1	%(n)
DPA1*01:03	75(9)
<i>DPA1*01:05</i>	8 (1)
DPA1*01	17(2)
DPA1*02:01	75(9)
<i>DPA1*01:11</i>	8 (1)
DPA1*02	17(2)

30 LABS - DPB1	%(n)
DPB1*01:01:01	14(4)
DPB1*01:01P	3 (1)
DPB1*01:01	77(23)
DPB1*01:01/+	3 (1)
DPB1*01	3 (1)
DPB1*04:02:01	7 (2)
DPB1*04:02:01G	7 (2)
DPB1*04:02P	3 (1)
DPB1*04:02	77(23)
<i>DPB1*75:01</i>	3 (1)
DPB1*04:02/*+	3 (1)

Serology - class II	4 LABS - DR	%(n)
	DR4	100(4)
	DR14	50(2)
	DR6	25(1)
<i>DR17</i>	25(1)	

4 LABS - DR	%(n)
DR52	100(4)
DR53	100(4)

4 LABS - DQ	%(n)
DQ7	100
DQ8	50(2)
DQ3	50(2)

DNA Typing - class I	33 LABS - HLA-A	%(n)
	A*01:01:01:01	3 (1)
	A*01:01:01	3 (1)
	A*01:01:01G	3 (1)
	A*01:01	30(10)
	A*01:01+	15(5)
	A*01	46(15)
	A*02:01:01:01	3 (1)
	A*02:01:01	3 (1)
	A*02:01:01G	3 (1)
	A*02:01	21(7)
	A*02:01+	24(8)
A*02	46(15)	

33 LABS - HLA-B	%(n)
B*35:04:01	12(4)
B*35:04	43(14)
B*35:04+	6 (2)
B*35	39(13)
B*82:01	52(17)
B*82:01/02	9 (3)
B*82	39(13)

33 LABS - HLA-C	%(n)
C*03:02:02	3 (1)
C*03:02:01G	3 (1)
C*03:02	33(11)
C*03:02+	15(5)
C*03(Cw10)	3 (1)
C*03	42(14)
C*04:01:01	3 (1)
C*04:01:01G	6 (2)
C*04:01P	3 (1)
C*04:01	18(6)
C*04:01+	24(8)
C*04	46(33)

Table 2: Summary of the 250th B-cell Line Exchange

Ter-500

DNA Typing - class II	61 LABS - DRB1	%(n)
	DRB1*04:03:01	10(6)
	DRB1*04:03	38(23)
	DRB1*04:03:01+	14(9)
	DRB1*04	38(23)
	DRB1*14:54:01	5 (3)
	DRB1*14:01:01G	3 (2)
	DRB1*14:01P	2 (1)
	DRB1*14:54	29(18)
DRB1*14:54+	16(10)	
DRB1*14:01+	7 (4)	
DRB1*14	38(23)	

40 LABS - DRB3	
DRB3*02:02	35(14)
DRB3*02:02+	20(8)
DRB3*02	25(10)
DRB3*+	20(8)
40 LABS - DRB4	
DRB4*01:01:01G	10(4)
DRB4*01:03	48(19)
DRB4*01	20(8)
DRB4*+	22(9)

32 LABS - DQA1	%(n)
DQA1*01:01:01G	3 (1)
DQA1*01:04	41(13)
DQA1*01:01+	22(7)
DQA1*01	34(11)
DQA1*03:01:01G	25(8)
DQA1*03:01	41(13)
DQA1*03	34(11)

58 LABS - DQB1	%(n)
DQB1*03:02:01	7(4)
DQB1*03:02	50(29)
DQB1*03:02+	12(7)
DQB1*03(DQ8)	7 (4)
DQB1*03	24(14)
DQB1*05:02:01	5 (3)
DQB1*05:02:01G	2 (1)
DQB1*05:02	48(28)
DQB1*05:05	2 (1)
DQB1*05:02+	12(7)
DQB1*05	31(18)

12 LABS - DPA1	%(n)
DPA1*01:03	83(10)
DPA1*01	17(2)

30 LABS - DPB1	%(n)
DPB1*02:01:02	10(3)
DPB1*02:01:02G	7 (2)
DPB1*02:01P	7 (2)
DPB1*02:01	63(19)
DPB1*02:01/*141:01	13(4)

Serology - class II	5 LABS - DR	%(n)
	DR4	100(5)
	DR14	100(5)

5 LABS - DR	%(n)
DR52	100(5)
DR53	100(5)

5 LABS - DQ	%(n)
DQ8	60(3)
DQ3	40(2)
DQ5	20(1)
DQ1	80(4)

DNA Typing - class I	33 LABS - HLA-A	%(n)
	A*02:03:01	6 (2)
	A*02:03:01G	3 (1)
	A*02:03	27(9)
	A*02:03+	21(7)
	A*02	43(14)
	A*02:07:01	6 (2)
	A*02:07:01G	3 (1)
	A*02:07	27(9)
	A*02:07+	15(5)
A*02:01+	6 (2)	
A*02	43(14)	

33 LABS - HLA-B	%(n)
B*38:02:01	9 (3)
B*38:02:01G	3 (1)
B*38:02	36(12)
B*38:02+	12(4)
B*38	40(13)
B*46:01:01	9 (3)
B*46:01:01G	6 (2)
B*46:01	33(11)
B*46:01+	9 (3)
B*46	43(14)

33 LABS - HLA-C	%(n)
C*01:02:01G	3 (1)
C*01:02	32(10)
C*01:02+	22(7)
C*01	43(14)
C*07:02:01G	6 (2)
C*07:02	22(7)
C*07:02+	28(9)
C*07	44(14)

Table 3: Individual laboratory results for B-cell #499 - class II

Center	Investigator	DRB1		DRB3	DRB4	DQA1		DQB1		DPA1		DPB1		METHOD
5488	Adams, Sharon	*04:05:01+	*14:02/13	*01	*01	*03:03	*05:03	*03:01:01	*03:02:01			*01:01:01	*04:02:01	SSO, SBT, SSP
4691	Ajjan, Abdula	*04:05	*14:02					*03:01/27+	*03:02/37					SSO, SBT
8038	Cao, Kai	*04:05:01	*14:02	*01:01:02	*01:03	*03:02/03	*05:03/07	*03:01:01	*03:02:01	*01:03	*02:01	*01:01:01	*04:02	SSO, SSP, SBT
774	Cecka, J. Mich	*04:05/90+	*14:02	*01:01	*01:03	*03:03	*05:03	*03:01/21+	*03:02/32+					SSP
8070	Chang, Uckjin	*04	*14											P-SSP
9916	Charlton, Ron	*04:05:01	*14:02	*01:01	*01:03			*03:01/75+	*03:02/85					SSP, SBT
9916	Charlton_LR	*04	*14	*+	*+			*03	*03					SSP
4492	Charron, D.	*04:05	*14:02	*01:01	*01:03	*03	*05	*03:01/50+	*03:02/62+	*01:03	*02:01	*01:01	*04:02	P-SSO, SSP
8021	Clark, Brenda	*04:05	*14:02	*01	*01			*03:01	*03:02			*01:01	*04:02	P-SSP, RVSSO
3632	Colombe, Beth	*04:05	*14:02	*01:01	*01:03	*03:03	*05:03	*03:01	*03:02					SSOP, SSP
5130	Costeas, Paul	*04:05	*14:02	*01:01	*01:03	*03:03	*05:03	*03:01	*03:02					SSO, SSP
779	Daniel, Claud	*04	*14:02/13+	*01:01/11	*01:01:01G	*03:03	*05:03	*03:01	*03:02	*01:03	*02:01	*01:01	*04:02	P-SSP, SSO
5219	Daniel, Dolly	*04	*14					*03	*03					P-SSOP
5891	Du, Keming	*04:05/08	*14:02/13					*03:01/03	*03:02/04					P-SBT
3766	Dunn, Paul	*04	*14	*+	*+	*03	*05	*03	*03	*01	*02	*01:01	*04:02	RT-PCR
5214	Eckels/CPMC	*04	*14	*01	*01	*03	*05	*03 (DQ7)	*03 (DQ8)	*01:03	*02:01	*01:01	*04:02	SSOP
3135	Enczmann, J	*04:05	*14:02	*01:01	*01:03			*03:01	*03:02			*01:01	*04:02	SBT, P-SSP, P-SSO
762	Fischer, Got	*04:05	*14:02	*01:01	*01:03	*03:03	*05:03	*03:01/19+	*03:02			*01:01	*04:02	SSO, SBT
4079	Fort, Marylis	*04	*14					*03	*03			*01:01/*+	*04:02	SSP
792	Gandhi, Manis	*04:05	*14:02	*01:01	*01:03	*03:03	*05:03	*03:01	*03:02			*01:01	*04:02	SSO, SSP
8043	Gideoni, Osna	*04:05	*14:02			*03:03	*05:03	*03:01	*03:02	*01:03	*02:01	*01:01	*04:02	SSP
9002	Gideoni_LR	*04	*14					*03						SSO, SSP
910	Hahn, Amy B.	*04:05/45+	*14:02	*01:01/11+	*01:03			*03:01/21+	*03:02/32+					SSP
2344	Hurley/Hartz	*04:05:01	*14:02					*03:01:01G	*03:02:01			*01:01:01	*04:02:01G	SBT, SSOP
771	Israel, Shosh	*04:05	*14:02					*03:01	*03:02					SSP
9003	Israel_LR	*04	*14					*03						SSO
794	Jaatinen, Tai	*04:05	*14:02	*01:01	*01:03	*03:02/03	*05:03/07	*03:01	*03:02	*01:03	*02:01	*01:01	*04:02	SBT, SSO, SSP
8086	Jie, Pan	*04:05	*14:02			*03:01/03	*05:01/03	*03:01	*03:02			*01:01	*04:02	SBT
2847	Kihara, Masaaki	*04	*14											RVSSO
4337	Kim, Tai-Gyu	*04:05	*14:02					*03:01	*03:02			*01:01	*04:02	SBT, SSP
1694	Kissel&Hess	*04	*14	*+	*+			*03	*03					SSP
87	Land, Geoffre	*04:05	*14:02	*01:01	*01:03	*03:03	*05:03	*03:01	*03:02			*01:01	*04:02	SBT, SSO, SSP
725	Lardy, N.M.	*04	*14	*+	*+	*03	*05	*03						SSO, SSP
278	Lee, Jar-How	*04:05	*14:02	*01:01	*01:03	*03:03	*05:03	*03:01	*03:02	*01:03	*02:01	*01:01	*04:02	SSP, RVSSOP
6649	Lim, Young Ae	*04	*14	*+	*+									SSP
274	Lo, Raymundo	*04	*14:09			*03	*05	*03	*03:02	*01:05	*01:11	*01:01	*75:01	SSO
731	Loewenthal, R	*04:05:01	*14:02					*03:01/19	*03:02					SBT, SSO
759	Lopez-Cepero	*04:05/08+	*14:02/13+	*01:01/11	*01:01:01G	*03:02/03	*05:03/07	*03:01/27+	*03:02/37	*01:03	*02:01	*01:01P	*04:02P	RVSSO
8029	Mani, Rama	*04	*14					*03	*03					SSO
8052	Marcos, Cintia Y	*04	*14:02/13+			*03:02/03	*05:03/07	*03	*03					P-SSO
206	McAlack-Hana	*04	*14	*01	*01	*03	*05	*03 (DQ7)	*03 (DQ8)					RVSSOP
8042	Muncher, Lior	*04:05	*14:02					*03:01	*03:02					SSO, SSP
9001	Muncher_LR	*04	*14					*03						SSO, SSP
54	Pancoska, Ca	*04	*14	*01	*01	*03	*05	*03 (DQ7)	*03 (DQ8)	*01:03	*02:01	*01:01	*04:02	RVSSO
3966	Permpikul&Ve	*04:05	*14:02	*01:01	*01:03			*03:01	*03:02					P-SSP
2400	Phelan, Donna	*04:05	*14:02	*01	*01	*03:02/03	*05:03/07	*03:01	*03:02			*01:01	*04:02	SSO, SBT, SSP
8001	Rao, Prakash	*04:05	*14:02	*01:01	*01:03	*03	*05	*03:01	*03:02			*01:01	*04:02	RVSSO, SSP
3753	Reed, Elaine	*04:05/08	*14:02/13	*01:01/11	*01:01:01G	*03:02/03	*05:03/07	*03:01	*03:02					SBT, SSO

Table 3: Individual laboratory results for B-cell #499 - class II

Center	Investigator	DRB1		DRB3	DRB4	DQA1		DQB1		DPA1		DPB1		METHOD
3519	Renac, Virginie	*04:05	*14:02	*01:01	*01:03	*03:03	*05:03	*03:01	*03:02			*01:01	*04:02/*+	SBT,P-SSP
3519	Renac, Virginie_LR	*04	*14					*03	*03			*01:01	*04:02	P-SSP
1160	Rosen-Bronson	04:05/08	*14:02/13	*01	*01			*03:01	*03:02					SSO,SBT
793	Rubocki,Rona	*04	*14	*01	*+	*03	*05	*03 (DQ7)	*03 (DQ8)			*01	*04:02	SSP
4251	Schiller,J	*04:05	*14:02	*01:01/11	*01:01:01G	*03	*05	*03:01	*03:02	*01	*02	*01:01	*04:02:01G	P-RVSSO,SBT
8068	Shanmugam,He	*04	*14	*+	*+			*03						P-SSP
1108	Sutherland,L	*04	*14	*01	*01	*03	*05	*03	*03					SSOP
747	Tiercy,Jean-	*04:05:01	*14:02	*01:01	*01:03	*03:02/03	*05:03/07	*03:01:01G	*03:02:01			*01:01:01	*04:02:01	SSO,SSP,SBT
5451	Tilanus,Marc	*04:05:01	*14:02	*+	*+			*03						SBT,SSP
5462	Turner,E.V.	*04:05	*14:02	*01:01	*01:03			*03:01	*03:02			*01:01	*04:02	SSP,SSO,SBT
5642	Varnavidou-N	*04:05/152	*14:02	*+	*+			*03:01/21+	*03:02/32+					P-SSP
797	Yabe,Hirosama	*04:05/08	*14:02/13			*03:02/03	*05:03/07	*03:01/27+	*03:02					SSO,+SBT-DR
3511	Zeevi,Adrian	*04:05	*14:02	*01:01	*01:03	*03:03	*05:03	*03:01	*03:02			*01:01	*04:02	RVSSOP,SSP

CTR	DIRNAME	DR4	DR14	DR52	DR53			DQ7	DQ8	OTH1	OTH2
4492	Charron,D.	NT									
910	Hahn,Amy B.	+		+	+			+	DQ3	DR17	
4908	Kvam,Vonnett	+	DR6	+	+			+	DQ3		
54	Pancoska,Car	+	+	+	+			+	+		
793	Rubocki,Rona	+	+	+	+			+	+		

Table 4: Individual laboratory results for B-cell #499 - class I

Center	Investigator	HLA-A		HLA-B		HLA-C		METHOD
5488	Adams, Sharon	*01	*02	*35:04:01	*82:01	*03	*04	SSO, SBT, SSP
4691	Ajjan, Abdula	*01	*02	*35	*82	*03	*04	SSO, SBT
8038	Cao, Kai	*01:01:01:01+	*02:01:01	*35:04:01	*82:01	*03:02	*04:01/09N/30/82	SSO, SBT
9916	Charlton, Ron	*01:01:01:01	*02:01:01:01	*35:04:01	*82:01	*03:02:02	*04:01:01	SSP, SBT
9916	Charlton_LR	*01	*02	*35	*82	*03	*04	SSP
4492	Charron, D.	*01:01/105/110+	*02:01/01L/97+	*35:04	*82:01	*03:02/146/190	*04:01/75/79/82+	P-SSO, SSP
8021	Clark, Brenda	*01:01+	*02:01+	*35:04+	*82:01/02	*03:02+	*04:01+	P-SSP, RVSSO
3632	Colombe, Beth	*01	*02	*35	*82	*03	*04	SSOP, SSP
5130	Costeas, Paul	*01:01	*02:01/01:01:02L	*35:04	*82:01	*03:02	*04:01	SSO, SSP
5219	Daniel, Dolly	*01	*02	*35	*82	*03	*04	P-SSOP
5891	Du, Keming	*01:01/30/66+	*02:01/246/338+	*35:04	*82:01	*03:02/15/60	*04:01/09N/30+	P-SBT
3766	Dunn, Paul	*01	*02	*35	*82	*03	*04	RT-PCR
3135	Enczmann, J	*01:01	*02:01/01L	*35:04	*82:01	*03:02	*04:01/09N	SBT, P-SSP, P-SSO
792	Gandhi, Manis	*01:01	*02:01	*35:04	*82:01/02	*03:02	*04:01	SSO, SSP
2344	Hurley/Hartz	*01:01:01G	*02:01:01G	*35:04:01	*82:01	*03:02:01G	*04:01:01G	SBT, SSOP
794	Jaatinen, Tai	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01/30/82	SBT, SSO, SSP
8086	Jie, Pan	*01:01/14/98/100	*02:01/101+	*35:04	*82:01	*03:02/60	*04:01/09N/30+	SBT
2847	Kihara, Masaaki	*01	*02	*35	*82	*03	*04	RVSSO
4337	Kim, Tai-Gyu	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SBT, SSP
278	Lee, Jar-How	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSP, RVSSOP
274	Lo, Raymundo	*01	*02	*35	*82	*03	*04	SSO
8029	Mani, Rama	*01	*02	*35	*82	*03	*04	SSO
8052	Marcos, Cintia Y	*01	*02	*35:04/09/12/83	*82:01/02	*03	*04	P-SSO
54	Pancoska, Ca	*01	*02	*35	*82	*03 (Cw10)	*04	RVSSO
3966	Permpikul&Ve	*01	*02	*35	*82	*03	*04	P-SSP
2400	Phelan, Donna	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01:01G	SSO, SBT, SSP
3753	Reed, Elaine	*01:01/14/30/66+	*02:01/36/90+	*35:04	*82:01	*03:02/15/60	*04:01/09N/11+	SBT, SSO
3519	Renac, Virginie	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SBT, P-SSP
3519	Renac, Virginie_LR	*01	*02	*35	*82	*03	*04	P-SSP
4251	Schiller, J	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01P	P-RVSSO, SBT
8068	Shanmugam, He	*01	*02	*35	*82	*03	*04	P-SSP
1108	Sutherland, L	*01	*02	*35	*82	*03	*04	SSOP
5462	Turner, E.V.	*01:01	*02:01/01L	*35:04	*82:01	*03:02	*04:01	SSP, SSO, SBT

Table 5: Individual laboratory results for B-cell #500 - class II

Center	Investigator	DRB1		DRB3	DRB4	DQA1		DQB1		DPA1		DPB1		METHOD
5488	Adams, Sharon	*04:03:01+	*14:54:01+	*02	*01	*01:04	*03:01	*03:02:01	*05:02:01			*02:01:02		SSO,SBT,SSP
4691	Ajlan, Abdula	*04:03	*14:01/39/54+					*03:02	*05:02					SSO,SBT
8038	Cao, Kai	*04:03:01	*14:01/54	*02:02+	*01:03	*01:01/04+	*03:01:01G	*03:02:01	*05:02:01	*01:03		*02:01+		SSO,SSP,SBT
774	Cecka, J. Mich	*04:03/93+	*14:54	*02:02+	*01:03	*01:04	*03:01	*03:02/32+	*05:02/14+					SSP
8070	Chang, Uckjin	*04	*14											P-SSP
9916	Charlton, Ron	*04:03:01	*14:54:01	*02:02	*01:03			*03:02/85	*05:02/19+					SSP,SBT
9916	Charlton_LR	*04	*14	*+	*+			*03	*05					SSP
4492	Charron, D.	*04:03+	*14:54/01:04+	*02:02	*01:03	*01	*03	*03:02/85	*05:02/19+	*01:03		*02:01+	*02:01+	P-SSO,SSP
8021	Clark, Brenda	*04:03	*14:54	*02	*01			*03:02	*05:02			*02:01		P-SSP,RVSSO
3632	Colombe, Beth	*04:03	*14:54	*02:02	*01:03	*01:04	*03:01	*03:02	*05:02					SSOP,SSP
5130	Costeas, Paul	*04:03	*14:54	*02:02	*01:03	*01:04	*03:01	*03:02	*05:02					SSO,SSP
779	Daniel, Claud	*04	*14	*02	*01:01:01G	*01:04	*03:01	*03:02/85	*05:02/17+	*01:03		*02:01		P-SSP,SSO
5219	Daniel, Dolly	*04	*14					*03	*05					P-SSOP
5891	Du, Keming	*04:03/146	*14:01/54/23					*03:02	*05:02					P-SBT
3766	Dunn, Paul	*04	*14	*+	*+	*01	*03	*03	*05	*01		*02:01		RT-PCR
5214	Eckels/CPMC	*04	*14	*02	*01	*01	*03	*03 (DQ8)	*05	*01:03	*01:03	*02:01G		SSOP
3135	Enczmann, J	*04:03	*14:54	*02:02	*01:03			*03:02	*05:02			*02:01		SBT,P-SSP,P-SSO
762	Fischer, Got	*04:03	*14:54/01	*02:02+	*01:03	*01:04	*03:01	*03:02	*05:02			*02:01		SSO,SBT
4079	Fort, Marylis	*04	*14					*03	*05			*02:01		SSP
792	Gandhi, Manis	*04:03	*14:54	*02:02	*01:03	*01:04	*03:01	*03:02	*05:02			*02:01	*02:01+	SSO,SSP
8043	Gideoni, Osna	*04:03	*14:54			*01:04	*03:01	*03:02	*05:02	*01:03		*02:01		SSP
9002	Gideoni_LR	*04	*14					*03	*05					SSO,SSP
910	Hahn, Amy B.	*04:03/93+	*14:54	*02:02+	*01:03			*03:02/32+	*05:02/14+					SSP
2344	Hurley/Hartz	*04:03:01	*14:01:01G					*03:02:01	*05:02:01G			*02:01:02	*02:01:02	SBT,SSOP
771	Israel, Shosh	*04:03	*14:54					*03:02	*05:02					SSP
9003	Israel_LR	*04	*14					*03	*05					SSO
794	Jaatinen, Tai	*04:03	*14:54	*02:02	*01:03	*01:01/04+	*03:01:01G	*03:02	*05:02	*01:03		*02:01+		SBT,SSO,SSP
8086	Jie, Pan	*04:03	*14:54/39/113			*01:04	*03:01	*03:02	*05:02			*02:01	*02:01	SBT
2847	Kihara, Masaaki	*04	*14											rSSO
4337	Kim, Tai-Gyu	*04:03	*14:54					*03:02	*05:02			*02:01		SBT,SSP
1694	Kissel&Hess	*04	*14	*+	*+			*03	*05					SSP
87	Land, Geoffre	*04:03	*14:54	*02:02	*01:03	*01:04	*03:01	*03:02	*05:02			*02:01	*02:01	SBT,SSO,SSP
725	Lardy, N.M.	*04	*14	*+	*+	*01	*03	*03	*05					SSO,SSP
278	Lee, Jar-How	*04:03	*14:54	*02:02	*01:03	*01:04	*03:01	*03:02	*05:02	*01:03		*02:01		SSP,RVSSOP
6649	Lim, Young Ae	*04	*14	*+	*+									SSP
274	Lo, Raymundo	*04	*14			*01	*03	*03:02	*05:05	*01:03	*01:03	*02:01	*02:01	SSO
731	Loewenthal, R	*04:03:01	*14:01:01/54:01					*03:02	*05:02					SBT,SSO
759	Lopez-Cepero	*04:03/39+	*14:01/26/38+	*02:02+	*01:01:01G	*01:01/04+	*03:01:01G	*03:02	*05:02	*01:03		*02:01P		RVSSO
8029	Mani, Rama	*04	*14					*03	*05					SSO
8052	Marcos, Cintia Y	*04	*14			*01:01/04+	*03:01:01G	*03:02/85	*05:02/17+					P-SSO
206	McAlack-Hana	*04	*14	*02	*01	*01	*03	*03 (DQ8)	*05					RVSSOP
8042	Muncher, Lior	*04:03	*14:54					*03:02	*05:02					SSO,SSP
9001	Muncher_LR	*04	*14					*03	*05					SSO,SSP
54	Pancoska, Ca	*04	*14	*02	*01	*01	*03	*03 (DQ8)	*05	*01:03		*02:01		RVSSO
3966	Permpikul&Ve	*04:03	*14:01/54	*02:02	*01:03			*03:02	*05:02					P-SSP
2400	Phelan, Donna	*04:03	*14:54	*02	*01	*01:01:01G	*03:01:01G	*03:02	*05:02			*02:01:02G		SSO,SBT,SSP
8001	Rao, Prakash	*04:03	*14:54	*02:02	*01:03	*01	*03	*03:02	*05:02			*02:01		RVSSO,SSP
3753	Reed, Elaine	*04:03/146	*14:54/23	*02:02+	*01:01:01G	*01:01/04+	*03:01:01G	*03:02	*05:02					SBT,SSO

Table 5: Individual laboratory results for B-cell #500 - class II

Center	Investigator	DRB1		DRB3	DRB4	DQA1		DQB1		DPA1		DPB1		METHOD
3519	Renac, Virginie	*04:03	*14:01/54	*02:02	*01:03	*01:04	*03:01	*03:02	*05:02			*02:01		SBT,P-SSP
3519	Renac, Virginie_LR	*04	*14					*03	*05			*02:01		P-SSP
1160	Rosen-Bronson	*04:03/146	*14:54	*02	*01			*03:02	*05:02					SSO,SBT
793	Rubocki,Rona	*04	*14	*02	*+	*01	*03	*03 (DQ8)	*05			*02:01		SSP
4251	Schiller,J	*04:03	*14:01:01G	*02:02+	*01:01:01G	*01	*03	*03:02	*05:02	*01	*01	*02:01:02G	*02:01:02G	P-RVSSO,SBT
8068	Shanmugam,He	*04	*14	*+	*+			*03	*05					P-SSP
1108	Sutherland,L	*04	*14	*02	*01	*01	*03	*03	*05					SSOP
747	Tiercy,Jean-	*04:03:01	*14:54:01	*02:02	*01:03	*01:01/04+	*03:01:01G	*03:02:01	*05:02:01			*02:01:02		SSO,SSP,SBT
5451	Tilanus,Marc	*04:03:01	*14:54:01	*+	*+			*03	*05					SBT,SSP
5462	Turner,E.V.	*04:03	*14:01P	*02:02+	*01:03			*03:02	*05:02			*02:01+		SSP,SSO,SBT
5642	Varnavidou-N	*04:03/96+	*14:54/87/88+	*+	*+			*03:02/32+	*05:02/14+					P-SSP
797	Yabe,Hiromasa	*04:03	*14:01/54/114			*01:01/04+	*03:01:01G	*03:02	*05:02					SSO,+SBT-DR
3511	Zeevi,Adrian	*04:03	*14:54	*02:02	*01:03	*01:04	*03:01	*03:02	*05:02			*02:01		RVSSOP,SSP

CTR	DIRNAME	DR4	DR14	DR52	DR53			DQ8	DQ1	OTH1	OTH2
4492	Charron,D.	+	+	+	+			DQ3	+		
910	Hahn,Amy B.	+	+	+	+			+	+		
4908	Kvam,Vonnett	+	+	+	+			DQ3	+		
54	Pancoska,Car	+	+	+	+			+	+		
793	Rubocki,Rona	+	+	+	+			+	DQ5		

Table 6: Individual laboratory results for B-cell #500 - class I

Center	Investigator	HLA-A		HLA-B		HLA-C		METHOD
5488	Adams, Sharon	*02:03:01/171:02	*02:07:01/191	*38:02:01	*46:01:01	*01	*07	SSO, SBT, SSP
4691	Aijan, Abdula	*02	*02	*38	*46	*01	*07	SSO, SBT
8038	Cao, Kai	*02:03:01	*02:07:01	*38:02:01	*46:01:01	*01:02	*07:02/50	SSO, SSP, SBT
9916	Charlton, Ron	*02:03:01	*02:07:01	*38:02:01	*46:01:01	*01:02	*07:02	SSP, SBT
9916	Charlton_LR	*02		*38	*46	*01	*07	SSP
4492	Charron, D.	*02:03/253/264/370	*02:07/265/426/432	*38:02/43	*46:01/34/39	*01:02/40/44	*07:02/159/160+	P-SSO, SSP
8021	Clark, Brenda	*02:03+	*02:01+	*38:02+	*46:01+	*01:02+	*07:02+	P-SSP, RVSSO
3632	Colombe, Beth	*02		*38	*46	*01	*07	SSOP, SSP
5130	Costeas, Paul	*02:03	*02:01/07	*38:02	*46:01	*01:02/28/30	*07:02	SSO, SSP
5219	Daniel, Dolly	*02	*02	*38	*46			P-SSOP
5891	Du, Keming	*02:03/171	*02:07/191	*38:02	*46:01	*01:02/17/22/54+	*07:02/50/39/37+	P-SBT
3766	Dunn, Paul	*02	*02	*38	*46	*01	*07	RT-PCR
3135	Enczmann, J	*02:03	*02:07	*38:02	*46:01	*01:02	*07:02	SBT, P-SSP, P-SSO
792	Gandhi, Manis	*02:03	*02:07	*38:02	*46:01	*01:02	*07:02	SSO, SSP
2344	Hurley/Hartz	*02:03:01G	*02:07:01G	*38:02:01G	*46:01:01G	*01:02:01G	*07:02:01G	SBT, SSOP
794	Jaatinen, Tai	*02:03	*02:07	*38:02	*46:01	*01:02	*07:02/50	SBT, SSO, SSP
8086	Jie, Pan	*02:03/171	*02:07/191	*38:02	*46:01	*01:02/02:01/58	*07:02/50/51	SBT
2847	Kihara, Masaaki	*02	*02	*38	*46	*01	*07	RVSSO
4337	Kim, Tai-Gyu	*02:03	*02:07	*38:02	*46:01	*01:02	*07:02	SBT, SSP
278	Lee, Jar-How	*02:03/370	*02:07	*38:02/15	*46:01/24/38	*01:02/25/40/44	*07:02/159/160+	SSP, RVSSOP
274	Lo, Raymundo	*02	*02	*38	*46	*01	*07	SSO
8029	Mani, Rama	*02	*02	*38	*46	*01	*07	SSO
8052	Marcos, Cintia Y	*02	*02	*38:02/15/18/23+	*46	*01	*07	P-SSO
54	Pancoska, Ca	*02		*38	*46	*01	*07	RVSSO
3966	Permpikul&Ve	*02	*02	*38	*46	*01	*07	P-SSP
2400	Phelan, Donna	*02:03	*02:07	*38:02	*46:01	*01:02	*07:02/50	SSO, SBT, SSP
3753	Reed, Elaine	*02:03/171	*02:07/191	*38:02	*46:01	*01:02/17/22/54+	*07:02/17/29/37+	SBT, SSO
3519	Renac, Virginie	*02:03	*02:07	*38:02	*46:01	*01:02	*07:02	SBT, P-SSP
3519	Renac, Virginie_LR	*02		*38	*46	*01	*07	P-SSP
4251	Schiller, J	*02:03	*02:07	*38:02	*46:01:01G	*01:02	*07:02:01G	P-RVSSO, SBT
8068	Shanmugam, He	*02		*38	*46	*01	*07	P-SSP
1108	Sutherland, L	*02	*02	*38	*46	*01	*07	SSOP
5462	Turner, E.V.	*02:03	*02:07	*38:02	*46:01	*01:02	*07:02	SSP, SSO, SBT

Cell Exchange #380

The results for Cell Exchange #380 are summarized in Table 7 and Table 8. Molecular typing results for individual laboratories are listed in

Tables 9-12 for each sample and individual serology results for each sample are listed in Table 13.

Cell 1517. The consensus type for this Black sample is A*03:01(A3)-A*66:02(A66)-B*57:03(B57)-B*58:01(B58)-C*07:01(Cw7). One likely haplotype in this cell is A*66:02-B*58:01-C*07:01, with HF=0.00375, in African Americans. The other probable haplotype is A*03:01-B*57:03-C*07:01, observed exclusively in African American populations, with HF=0.00189.

This cell was previously typed as cell 1391 (2010), as correctly noted by Askar, Claas, Dunn, Lopez-Cepero, Mah, and Tiercy. Two different splits of B17 were present in this cell, B57 (93%) and B58 (41%). As in the 2010 study, a number of labs in this present typing commented that they were unable to type for B58 in the presence of B57. B*57:03 (45%) and B*58:01 (42%) were assigned by DNA, with 5 labs assigning B*57:03:01 and B*58:01:01. A66 was detected by 82%, with 6 labs reporting A6602. A*66:02 (58%) was assigned by DNA. A34 was misassigned by 3 labs. C*07:18 (30%) was reported as the C-locus type. Four of the labs assigning C*07:18, were unable to resolve C*07:01 from C*07:08 for the second C-locus allele.

Cell 1518. The consensus type for this Caucasian cell is A*01:01(A1)-A*26:01(A26)-B*08:01(B8)-B*35:08(B35)-C*04:01(Cw4)-C*07:01(Cw7). The likely haplotypes in this cell are A*01:01-B*35:08-C*04:01 and A*26:01-B*08:01-C*07:01, with respective frequencies of 0.00048 and 0.00079, in Caucasians.

This sample was previously typed as cell 1306 (2007), as correctly identified by Askar, Claas, Lopez-Cepero, Mah, and Tiercy. In this present retyping, B*35:08 was assigned by 36%, compared to 66% of labs assigning B*35:08 in 2007. B*35:08:01 was assigned by 4 labs. More than half the labs (55%) simply reported B*35.

Cell 1519. The consensus type for this Japanese cell is A*24:02(A24)-A*26:03(A26)-B*15:01(B62)-B*51:01(B51)-C*14:02-C*15:02. One likely haplotype in this cell is A*24:02-B*51:01-C*14:02, observed commonly in Asians, with HF= 0.01180. The other probable haplotype is A*26:03-B*15:01-C*15:02, observed exclusively in Asians, with HF=0.00028.

This sample has been typed numerous times in the Exchange as cells 1317 (2007), 1122 (2002), 1053 (2000), 1000 (1999), 968 (1998), and extracts 592 (2013) and 17 (1998). Askar, Claas, Dunn, Lopez-Cepero, and Mah correctly identified this cell as being previously typed in the Exchange. In this retyping, A26 was detected by 88% and confirmed as A*26:03 (45%). A*26:03:01 was assigned by 4 labs. Askar observed weak reactivity with some monospecific A24 and A26 reagents. A24 was typed in complete consensus and confirmed as A*24:02 (48%).

Cell 1520. The consensus type for this Asian cell is A*11:01(A11)-A*26:01(A26)-B*15:12(B76)-B*39:01(B39)-C*03:03(Cw3)-C*07:02(Cw7). One likely haplotype in this cell is A*11:01-B*39:01-C*07:02, observed across all populations, with HF=0.00619, in Asians. By contrast, the other probable haplotype, A*11:03-B*15:12-C*03:03, is observed exclusively in Asian populations, with HF=0.00028.

This sample was previous typed as cell 1376 (2009), as astutely identified by Askar, Claas, Dunn, Lopez-Cepero, and Mah. In this retyping, B76 was reported by 75% and confirmed as B*15:12 (52%). One lab misassigned B75 and another misassigned B62. B39 was detected by 96% as the second B-locus type and confirmed as B*39:01 (35%). Interestingly, the detection of A26 by 88% in this cell was lower than that of Cell 1518, in which 96% of labs reported A26. A*26:01 was assigned by (41%).

NEXT MAILING DATE: May 7, 2014

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Table 7. Summary of the 380th Cell Exchange (Cell #1517-1520)

DNA typing							
Cell 1517		Cell 1518		Cell 1519		Cell 1520	
<u>31 labs</u>	% (n)	<u>31 labs</u>	% (n)	<u>29 labs</u>	% (n)	<u>29 labs</u>	% (n)
*03:01:01	16(5)	A*01:01:01:01	6 (2)	A*24:02	45(13)	A*11:01:01	7 (2)
*03:01	23(7)	A*01:01:01	3 (1)	A*24:02+	3 (1)	A*11:01	34(10)
*03:01+	6 (2)	A*01:01	26(8)	A*24	52(15)	A*11:01+	7 (2)
*03	55(17)	A*01:01+	10(3)			A*11	52(15)
		A*01	55(17)				
A*66:02	58(18)	A*26:01:01	10 (3)	A*26:03:01	14(4)	A*26:01:01	7 (2)
A*66:02+	6 (2)	A*26:01	29(9)	A*26:03	31(9)	A*26:01	34(10)
A*66	36(11)	A*26:01+	6 (2)	A*26:03+	14(4)	A*26:01+	7 (2)
		A*26	55(17)	A*26	41(12)	A*26	52(15)
<u>31 labs</u>	% (n)	<u>31 labs</u>	% (n)	<u>29 labs</u>	% (n)	<u>29 labs</u>	% (n)
B*57:03:01	16(5)	B*08:01:01	6 (2)	B*15:01	42(12)	B*15:12	52(15)
B*57:03	29(9)	B*08:01	36(11)	B*15:01+	17(5)	B*15:12+	21(6)
B*5703+	10(3)	B*08:01+	3 (1)	B*15	41(12)	B*15	27(8)
B*57	45(14)	B*08	55(17)				
B*58:01:01	16(5)	B*35:08:01	13(4)	B*51:01	41(12)	B*39:01	35(10)
B*58:01	26(8)	B*35:08	23(7)	B*51:01+	7 (1)	B*39:01+	17(5)
B*58:01+	6 (2)	B*35:08+	10(3)	B*51	52(15)	B*39	48(14)
B*58	52(16)	B*35	55(17)				
<u>30 labs</u>	% (n)	<u>30 labs</u>	% (n)	<u>28 labs</u>	% (n)	<u>28 labs</u>	% (n)
C*07:01:01G	3 (1)	C*04:01:01	7 (2)	C*14:02:01	4 (1)	C*03:03:01	4 (1)
C*07:18	30(9)	C*04:01P	3 (1)	C*14:02	32(9)	C*03:03	32(9)
C*07:01	3 (1)	C*04:01	20(6)	C*14:02+	11 (3)	C*03:03+	28(8)
C*07:01+	14(4)	C*04:01+	13(4)	C*14	53(15)	C*03	36(10)
C*07	50(15)	C*04	57(17)				
		C*07:01:01G	3 (1)	C*15:02:01	4 (1)	C*07:02:01	4 (1)
		C*07:01	27(8)	C*15:02	32(9)	C*07:02:01G	4 (1)
		C*07:01+	20(6)	C*15:02+	11(3)	C*07:02	25(7)
		C*07	50(15)	C*15	53(15)	C*07:02+	21(6)
						C*07	46(13)

Table 9. Individual laboratory results for Cell #1517

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
16	Askar,Medhat	*03:01:01	*66:02	*57:03:01	*58:01:01	*07:18		PCR-RSSO,SBT
774	Cecka,J.Michael	*03	*66:02/03/16	*57:03	*58	*07		SSP
8070	Chang,Uckjin	*03	*66	*57	*58	*07		SSP
4492	Charron,D.	*03	*66	*57	*58	*07		SSP
798	Claas,F.H.J.	*03:01:01	*66:02	*57:03:01	*58:01:01	*07:18		SBT
3632	Colombe,Beth	*03:01	*66:02	*57:03	*58:01	*07:18	*07:01/18	SSO,SSP
779	Daniel,Claud	*03	*66:02	*57:03/17/46	*58	*07		PCR-SSP,SSO
3766	Dunn,Paul	*03	*66:02	*57:03/17/46	*58	*07		SSO
5214	Eckels/CPMC	*03	*66:02	*57	*58	*07		SSO
762	Fischer,Gottfried	*03	*66	*57	*58	*07		SSO,SSP,SBT
4079	Fort,Marylise	*03	*66	*57	*58	*07		SSP
8043	Gideoni,Osnat	*03:01	*66:02	*57:03	*58:01	*07:18	*07:18/01	SSP
9002	Gideoni_LR	*03	*66	*57	*58	*07		SSO
3808	Hogan,Patrick	*03	*66:02/16	*57	*58:01+	*07:01+		SSP
771	Israel,Shoshana	*03:01	*66:02	*57:03	*58:01	*07:18	*07:01/18	SSP
9003	Israel_LR	*03	*66	*57	*58	*07		PCR-SSOP
725	Lardy,N.M.	*03	*66	*57	*58	*07		SSO,SSP
745	Latham, Katy	*03:01:01	*66:02	*57:03:01	*58:01:01	*07:18		SSO,SSP,SBT
278	Lee,Jar-How	*03:01	*66:02	*57:03	*58:01	*07:01/18		SSP,RSSO
6649	Lim,Young Ae	*03	*66	*57	*58			SSP
731	Loewenthal,R	*03:01:01	*66:02	*57:03:01	*58:01:01	*07:01		SBT,SSO
759	Lopez-Cepero	*03:01/03N/04+	*66:02	*57:03/17/46	*58:01/04/10N/11+	*07:01/06/18/20+		RSSO
54	Pancoska,Carol	*03	*66:02	*57	*58	*07		RSSOP
8001	Rao,Prakash	*03	*66	*57	*58	*07		RSSO,SSP
3625	Rees,Tracey	*03:01	*66:02	*57:03	*58:01	*07:18	*07:18	PCR-SSP,SBT
793	Rubocki,Ronald	*03	*66	*57	*58	*07		SSP
4251	Schiller,Jennifer	*03:01	*66:02	*57:03	*58:01	*07:01:01G	*07:01:01G	PCR-RSSO,SBT
3545	Scornik,Juan C	*03:01/01N	*66:02	*57:03	*58:01	*07:01/06/18		SSOP,SBT
747	Tiercy,Jean-Marie	*03:01:01:01/01:01:03	*66:02	*57:03:01	*58:01:01	*07:18	*07:01/18	SSO,SSP,SBT
5462	Turner,E.V.	*03:01	*66:02	*57:03	*58:01	*07:18		SBT,SSO,SSP
3186	Watson,Narelle	*03	*66	*57	*58	*07	*07	SSO

Table 10. Individual laboratory results for Cell #1518

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
16	Askar,Medhat	*01:01	*26:01	*08:01	*35:08:01	*04:01	*07:01	PCR-RSSO,SBT
774	Cecka,J.Michael	*01	*26	*08	*35	*04	*07	SSP
8070	Chang,Uckjin	*01	*26	*08	*35	*04	*07	SSP
4492	Charron,D.	*01	*26	*08	*35	*04	*07	SSP
798	Claas,F.H.J.	*01:01:01:01	*26:01:01	*08:01	*35:08:01	*04:01:01	*07:01/343	SBT
3632	Colombe,Beth	*01:01	*26:01	*08:01	*35:08	*04:01	*07:01	SSO,SSP
779	Daniel,Claud	*01	*26	*08	*35	*04	*07	PCR-SSP,SSO
3766	Dunn,Paul	*01	*26	*08	*35:08+	*04	*07	SSO
5214	Eckels/CPMC	*01	*26	*08	*35	*04	*07	SSO
762	Fischer,Gottfried	*01	*26	*08	*35	*04	*07	SSO,SSP,SBT
4079	Fort,Marylise	*01	*26	*08	*35	*04	*07	SSP
8043	Gideoni,Osnat	*01:01	*26:01	*08:01	*35:08	*04:01	*07:01	SSP
9002	Gideoni_LR	*01	*26	*08	*35	*04	*07	SSO
3808	Hogan,Patrick	*01	*26	*08	*35	*04	*07:01+	SSP
771	Israel,Shoshana	*01:01	*26:01	*08:01	*35:08	*04:01	*07:01	SSP
9003	Israel_LR	*01	*26	*08	*35	*04	*07	PCR-SSOP
725	Lardy,N.M.	*01	*26	*08	*35	*04	*07	SSO,SSP
745	Latham, Katy	*01:01	*26:01	*08:01	*35:08:01	*04:01	*07:01	SSO,SSP,SBT
278	Lee,Jar-How	*01:01/01L/01N+	*26:01/77/80/82	*08:01	*35:08/158/176	*04:01/75/79/82/84+	*07:01/103/152/166	SSP,RSSO
6649	Lim,Young Ae	*01	*26	*08	*35			SSP
731	Loewenthal,R	*01:01:01	*26:01:01	*08:01:01	*35	*04:01:01/09N	*07:01/06/18	SBT,SSO
759	Lopez-Cepero	*01:01/04N/09/11N+	*26:01/10/15/17/20+	*08:01/05/08N/10+	*35:08/100/142+	*04:01/05/07/09N+	*07:01/06/09/18/20+	RSSO
54	Pancoska,Carol	*01	*26	*08	*35	*04	*07	RSSOP
8001	Rao,Prakash	*01	*26	*08	*35	*04	*07	RSSO,SSP
1160	Rosen-Bronson							RSSO,SSP,SBT
793	Rubocki,Ronald	*01	*26	*08	*35	*04	*07	SSP
4251	Schiller,Jennifer	*01:01	*26:01	*08:01	*35:08	*04:01P	*07:01:01G	PCR-RSSO,SBT
3545	Scornik,Juan C	*01:01/01N	*26:01	*08:01	*35:08	*04:01/09N/30/82	*07:01/06/18	SSOP,SBT
747	Tiercy,Jean-Marie	*01:01:01:01	*26:01:01	*08:01:01	*35:08:01	*04:01:01	*07:01	SSO,SSP,SBT
5462	Turner,E.V.	*01:01	*26:01	*08:01	*35:08	*04:01	*07:01	SBT,SSO,SSP
3186	Watson,Narelle	*01	*26	*08	*35	*04	*07	SSO

Table 11. Individual laboratory results for Cell #1519

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
16	Askar,Medhat	*24:02	*26:03:01	*15:01	*51:01	*14:02	*15:02	PCR-RSSO,SBT
774	Cecka,J.Michael	*24	*26	*15	*51	*14	*15	SSP
8070	Chang,Uckjin	*24	*26	*15	*51	*14	*15	SSP
4492	Charron,D.	*24	*26	*15	*51	*14	*15	SSP
798	Claas,F.H.J.	*24:02	*26:03:01	*15:01	*51:01	*14:02:01	*15:02:01	SBT
3632	Colombe,Beth	*24:02	*26:03	*15:01	*51:01	*14:02	*15:02	SSO,SSP
779	Daniel,Claud	*24	*26:03/21	*15 (B62)	*51	*14	*15	PCR-SSP,SSO
3766	Dunn,Paul	*24	*26:03/21	*15	*51	*14	*15	SSO
5214	Eckels/CPMC	*24	*26	*15 (B62)	*51	*14	*15	SSO
762	Fischer,Gottfried	*24:02	*26:03	*15:01	*51:01	*14:02	*15:02	SSO,SSP,SBT
4079	Fort,Marylise	NT						SSP
8043	Gideoni,Osnat	*24:02	*26:03	*15:01	*51:01	*14:02	*15:02	SSP
9002	Gideoni_LR	*24	*26	*15	*51	*14	*15	SSO
3808	Hogan,Patrick	*24	*26:03/05/06/21/30+	*15:01+	*51	*14	*15	SSP
771	Israel,Shoshana	*24:02	*26:03	*15:01	*51:01	*14:02	*15:02	SSP
9003	Israel_LR	*24	*26	*15	*51	*14	*15	PCR-SSOP
725	Lardy,N.M.	*24	*26	*15	*51	*14	*15	SSO,SSP
745	Latham, Katy	*24:02	*26:03:01	*15:01	*51:01	*14:02/06	*15:02/08	SSO,SSP,SBT
278	Lee,Jar-How	*24:02	*26:03	*15:01	*51:01	*14:02	*15:02	SSP,RSSO
6649	Lim,Young Ae	*24	*26	*15 (B62)	*51			SSP
731	Loewenthal,R	*24:02	*26:03:01	*15:01/04/15	*51:01/06	*14:02/06/12	*15:02/08/07	SBT,SSO
759	Lopez-Cepero	*24:02/09N/11N/15+	*26:03/21	*15:01/04/30/33/34+	*51:01/02/03/06+	*14:02/06/07N/08+	*15:02/03/07/08/10+	RSSO
54	Pancoska,Carol	*24	*26	*15 (B62)	*51	*14	*15	RSSOP
8001	Rao,Prakash	*24	*26	*15:01	*51	*14	*15	RSSO,SSP
3625	Rees,Tracey	*24:02	*26:03	*15:01	*51:01	*14	*15	PCR-SSP,SBT
793	Rubocki,Ronald	*24	*26	*15 (B62)	*51	*14	*15	SSP
4251	Schiller,Jennifer	*24:02	*26:03	*15:01	*51:01	*14:02	*15:02	PCR-RSSO,SBT
3545	Scornik,Juan C	*24:02	*26:03	*15:01/01N	*51:01	*14:02	*15:02	SSOP,SBT
747	Tiercy,Jean-Marie	NT						SSO,SSP,SBT
5462	Turner,E.V.	*24:02	*26:03	*15:01	*51:01	*14:02	*15:02	SBT,SSO,SSP
3186	Watson,Narelle	*24	*26	*15:01/01N/04/33+	*51	*14	*15	SSO

Table 12. Individual laboratory results for Cell #1520

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
16	Askar,Medhat	*11:01	*26:01	*15:12	*39:01	*03:03/20N	*07:02	PCR-RSSO,SBT
774	Cecka,J.Michael	*11	*26	*15:12/270	*39	*03	*07	SSP
8070	Chang,Uckjin	*11	*26	*15	*39	*03	*07	SSP
4492	Charron,D.	*11	*26	*15:12/14	*39	*03:03	*07	SSP
798	Claas,F.H.J.	*11:01:01	*26:01:01	*15:12	*39:01	*03:03:01	*07:02:01	SBT
3632	Colombe,Beth	*11:01	*26:01	*15:12	*39:01	*03:03	*07:02	SSO,SSP
779	Daniel,Claud	*11	*26	*15:12/19/270	*39	*03 (Cw9)	*07	PCR-SSP,SSO
3766	Dunn,Paul	*11	*26	*15:12/19/270	*39	*03	*07	SSO
5214	Eckels/CPMC	*11	*26	*15 (B76)	*39	*03 (Cw9)	*07	SSO
762	Fischer,Gottfried	*11:01	*26:01	*15:12	*39:01/01L	*03:03	*07:02/50	SSO,SSP,SBT
4079	Fort,Marylise	NT						SSP
8043	Gideoni,Osnat	*11:01	*26:01	*15:12	*39:01	*03:03	*07:02	SSP
9002	Gideoni_LR	*11	*26	*15	*39	*03	*07	SSO
3808	Hogan,Patrick	*11	*26	*15:12	*39	*03:03+	*07:02+	SSP
771	Israel,Shoshana	*11:01	*26:01	*15:12	*39:01	*03:03	*07:02	SSP
9003	Israel_LR	*11	*26	*15	*39	*03	*07	PCR-SSOP
725	Lardy,N.M.	*11	*26	*15	*39	*03	*07	SSO,SSP
745	Latham, Katy	*11:01	*26:01	*15:12	*39:01/01L	*03:03	*07:02	SSO,SSP,SBT
278	Lee,Jar-How	*11:01/69N/86+	*26:01/77/82	*15:12	*39:01/01L/77	*03:03/62/171	*07:02/159/160/167+	SSP,RSSO
6649	Lim,Young Ae	*11	*26	*15 (B76)	*39			SSP
731	Loewenthal,R	*11:01:01	*26:01:01	*15:12	*39:01	*03:03:01/20N	*07:02:01/50	SBT,SSO
759	Lopez-Cepero	*11:01/02/03/07+	*26:01/04/10/15+	*15:12/19	*39:01/05/24/25N+	*03:03/11/12/13+	*07:02/05/10/13/27+	RSSO
54	Pancoska,Carol	*11	*26	*15 (B76)	*39:01	*03	*07	RSSOP
8001	Rao,Prakash	*11	*26	*15:12	*39	*03:03	*07	RSSO,SSP
3625	Rees,Tracey	*11:01	*26:01	*15:12	*39:01	*03:03/20N	*07:02	PCR-SSP,SBT
793	Rubocki,Ronald	*11	*26	*15 (B76)	*39	*03 (Cw9)	*07	SSP
4251	Schiller,Jennifer	*11:01	*26:01	*15:12	*39:01	*03:03	*07:02:01G	PCR-RSSO,SBT
3545	Scornik,Juan C	*11:01	*26:01	*15:12	*39:01	*03:03/20N	*07:02/50	SSOP,SBT
747	Tiercy,Jean-Marie	NT						SSO,SSP,SBT
5462	Turner,E.V.	*11:01	*26:01	*15:12	*39:01/01L	*03:03	*07:02	SBT,SSO,SSP
3186	Watson,Narelle	*11	*26	*15:12/19	*39	*03:03/88	*07	SSO

Table 13. Individual laboratory results for Cell #1517-1520

Investigator	Days Old	Cell No 1517 (Black)								Cell No 1518 (Caucasian)								Cell No 1519 (Japanese)								Cell No 1520 (Asian)									
		Viab %	A3	A66	B57	B58	CW7	BW4	OTHERS	Viab %	A1	A26	B8	B35	CW4	CW7	BW6	OTHERS	Viab %	A24	A26	B51	B62	BW4	BW6	OTHERS	Viab %	A11	A26	B39	B76	CW3	CW7	BW6	OTHERS
Alvarez, Carr	???	90	+	+	+		+		90	+	+	+				+		90	+	+	+	+	+	+		90	+	+	+	B62			+		
Askar, Medhat	2	95	+	+	+		+	+	95	+	+	+	+	+	+	+		95	+	+	+	+	+	+		95	+	+	+	+	+	+	+		
Cecka, J. Mic	???	95	+	+	+	B17		+	95	+	+	+	+			+		95	+	+	+	+	+	+		95	+	+	+	+			+		
Charron, Domi	???	100	+	+	+				100	+	+	+	+					100	+	+	+	+				100	+	A10	+	+					
Claas, F.H.J.	6	90	+	+	+			+	90	+	+	+	+	+		+		90	+	+	+	+	+	+		90	+	+	+	B15	+		+		
Dunn, Paul	???	95	+	+	+			+	95	+	+	+	+			+		95	+	+	+	+	+	+		95	+	+	+	+				+	
Enczmann, J	???	95	+	+	+	+			90	+	+	+	+					90	+	+	+	+				90	+	+	+	+					
Esteves Kondo	27	98	+	+	+	+	+	+	98	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	+	+	+	CW9	+	+		
Fort, Marylis	3	90	+	+	+	+		+	95	+	+	+	+			+																			
Hahn, Amy B.	2	99	+	A6602	+		+	+	99	+	+	+	+		+			99	+	+	+	+	+	+		99	+		+	+	+	CW9	+	+	
Hesse, Kissel	6	85	+	A34	+	+	+	+	90	+	+	+	+	+	+	+		85	+	+	+	+	+	+		85	+	+	+	+	+	+	+	+	
Hogan, Patric	???	90	+	+	+	+	+	+	90	+	+	+	+	+	+	+		80	+	+	+	+	+	+		80	+	+	+	+	+	+	+	+	
Kvam, Vonnett	3	95	+	A6602	+		+	+	97	+	+	+	+	+	+	+		90	+	+	+	+	+	+	CW14	93	+	+	+	+	+	+	+	+	
Latham, Katy	3	100	+	A6602	+	+		+	100	+	+	+	+			+		100	+	+	+	+	+	+		95	+	+	+	B15			+		
Loewenthal MD	???	90	+	+	+	+	+	+	90	+	+	+	+	+	+	+		95	+	+	+	+	+	+		90	+	+	+	+	+	+	+	+	
Mah, Helen	3	98	+	A6602	+	+	+	+	98	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	+	+	+	+	+	+	+	+
Meyer, Pieter	???	90	+	A34	+	+	+		80	+	A10	+	+	+	+			85	+	A10	+	+				80	+	A10	+	B15	+	+			
Pancoska, Car	3	98	+	A6602	+		+	+	98	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	+	B16	+	+	+	+	+	
Permpikul, Ve	6	80	+	+	+	+		+	80	+	+	+	+			+		60	+	+	+	+	+	+		60	A11.1	+	+	+			+		
Pollack, Mari	2	98	+	+	+		+	+	98	+	+	+	+	+	+	+		98	+	A66	+	+	+	+		98	+	+	+	+	+	+	+	+	+
Rees, Tracey	6	80	+	+	+	B17	+	+	90	+	+	+	+	+	+	+		60	+	+	+	+	+	+		60	+	+	+	+	+	+	+	+	
Renac, Virgin	3	99	+	A10	+			+	99	+	+	+	+			+		99	+	+	+	B15	+	+		99	+	A10	+	B15				+	
Rubocki, Rona	???	99	+	+	+	B17	+	+	99	+	+	+	+	+	+	+		99	+	+	+	+	+	+		99	+	+	+	+	+	+	+	+	
Shai, Isaac	8	82	+	A34	B17	B63	+	+	80	+	+	+	+	+	+	+		86	+	+	+	+	+	+	CW4	80	+	+	+	B75	+	+	+	+	CW8
Tiercy, Jean-	6	85	+	A6602	+			+	85	+	+	+	+			+																			
Vidan-Jeras,	???	90	+	+	+	+	+	+	100	+	+	+	+	+	+	+		90	+	+	+	+	+	+		90	+	+	+	+	+	+	+	+	
Watson, Narel	10	60	+	A10	B17			+	60	+	+	+	+			+		50	+	A10	+	B15	+	+		50									