

REPORT OF THE 385th CELL EXCHANGE MARCH 4, 2015

B-cell Lines	511-512
Cells	1537-1540

B-cell Line Exchange #256

The results for B-cell Line Exchange #256 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in

Tables 3 - 8. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <http://bioinformatics.nmdp.org/>.

Ter-511. The consensus type for this sample from a Black donor 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 probable partial haplotype in this cell is DRB1*04:05-DRB4*01:03-DQA1*03:03-DQB1*03:02, observed in another B*35:04 cell, FH41. FH41 was studied in the workshops as IHW#9429 (same as Ter 414, 323, DNA#508). The other likely partial haplotype in this cell is DRB1*14:02-DRB3*01:01-DQA1*05:03-DQB1*03:01, observed in AMALA, a reference cell for DRB1*14:02:01, DQB1*03:01:01:01, and DQA1*05:03. AMALA was studied in the workshops as IHW9064.

This cell is, RB22, the reference cell for B*35:04:01, B*82:01, and MI-CA*043 (1). It was previously studied in the Cell Exchange as Ter 499 (2014), Ter 266 (2000), and Ter 239 (1999), as astutely noted by Rao. In this present retyping, DRB1*04:05 and DRB1*14:02 were assigned by 68% and 74%, respectively. DRB1*04:05:01 and DRB1*14:02:01 were each reported by 4 labs. DRB3*01:01 was reported by 77%, with an additional 5 labs reporting DRB3*0101/04. DRB4*01:03 was assigned by 82%.

This sample was also typed for class I as extracts 87 (1999), 301 (2004), and 432 (2008). B*35:04 was well assigned by 90%, with 3 labs assigning B*35:04:01. B*82:01 was also assigned by 90%. Two labs were unable to resolve B*82:01 from B*82:02. A*01:01 and A*02:01 were each assigned by 74%, with 2 labs assigning A*01:01:01:01 and A*02:01:01:01.

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.

Ter-512. The consensus type for this sample is DRB1*11:01-DRB1*13:02-DRB3*02:02-DRB3*03:01-DQA1*01:02-DQB1*06:02-DQB1*06:09-DPA1*01:03-DPA1*04:01-DPB1*02:01-DPB1*105:01-A*26:01-A*74:01-B*78:01-B*81:01-C*16:01-C*18:01. One likely association in this cell is B*78:01-C*16:01-DRB1*13:02-DQB1*06:09, observed exclusively in African Americans, with HF=0.00108. The other probable association is B*81:01-C*18:01-DRB1*11:01-DQB1*06:02, observed commonly in African Americans, with HF=0.00217.

DRB1*11:01 (71%) and DRB1*13:02 (77%) were reported as the DRB1 types, with 6 labs assigning DRB1*11:01:02 and 4 labs assigning DRB1*13:02:01. Two subtypes of DRB3 are present in this cell, DRB3*02:02 and DRB3*03:01, assigned by 73% and 96%, respectively. DQB1*06:02 (61%) and DQB1*06:09 (67%) were reported as the DQB1 types. A number of labs, n=8, were unable to resolve DQB1*06:09 from DQB1*06:88. DQB1*06:88 is found to differ from DQB1*06:09 in exon 3 by a single nucleotide substitution at codon 130 (CAG → CGG), which results in an amino acid change from glutamine to arginine.

This sample was previously typed for class I as extract 418 (2008). The assignment of C*18:01 improved in this present typing, increasing from a detection level of only 33% in 2008 to 79%. C*16:01 was well assigned by 90%, with 3 labs assigning C*16:01:01. B*78:01 and B*81:01 were assigned as the B-locus types by 90% and 70%, respectively. B*78:01:01 was reported by 3 labs.

Table 3: Individual laboratory results for B-cell #511-Class II

Center	Investigator	Low resolution												METHOD		
		DRB1		DRB3	DRB4	DQA1		DQB1		DPA1		DPB1				
5488	Adams,Sharon			*01	*01											SSO,SSP,SBT
4691	Al Ajlan,Abdula								*03	*03						SSO
9916	Charlton,Ron	*04	*14	*+	*+				*03	*03						SSP,SBT
8021	Clark,Brendan	*04	*14	*01	*01	*03	*05	*03	*03			*01	*04			SSO
3632	Colombe,Beth	*04	*14	*01	*01	*03	*05	*03	*03	*01	*02	*01	*04			SSO,SSP
779	Daniel,Claude	*04	*14	*01	*01	*03	*05	*03	*03	*01	*02	*01	*04			SSO,SSP
5219	Daniel,Dolly	*04	*14					*03	*03							SSO
1108	DeConinck,Mart	*04	*14	*+	*+	*03	*05	*03	*03	*01	*02					SSOP
3766	Dunn,Paul	*04	*14	*01	*01			*03	*03	*01	*02					RT-PCR,SSO,SSP
5214	Eckels/CPMC	*04	*14	*01	*01	*03	*05	*03	*03	*01	*02	*01	*04			SSO
4079	Fort,Marylise	*04	*14					*03	*03							SSP,SSO
910	Hahn,Amy B.	*04	*14	*+	*+			*03	*03							SSP
1694	Hesse,Nicole	*04	*14	*+	*+											SSP
8043	Hod,Reut	*04	*14					*03	*03							SSO,SSP
771	Israel,Shoshana	*04	*14					*03								SSO
794	Jaatinen,Taina	*04	*14													SBT,SSO,SSP
2847	Kihara,Masaaki	*04	*14													SSO
4908	Kvam,Vonnette	*04	*03	*+	*+			*03	*02							Other
87	Land,Geoffrey	*04	*14	*01	*01	*03	*05	*03	*03	*01	*02	*01	*04			SSO,SSP,SBT
725	Lardy,N,M.	*04	*14	*+	*+	*03	*05	*03								SSO
278	Lee,Jar-How	*04	*14	*01	*01	*03	*05	*03	*03	*01	*02	*01	*04			SSP,RVSSOP
6649	Lim,Young Ae	*04	*14	*+	*+											SSP
206	McAlack-Hanau	*04	*14	*01	*01	*03	*05	*03	*03	*01	*02	*01	*04			SSO
8042	Muncher,Liora	*04	*14	*01	*01			*03								SSO,SSP
54	Pancoska,Carol	*04	*14	*01	*01	*03	*05	*03	*03	*01	*02	*01	*04			SSO
2400	Phelan,Donna	*04	*14	*01	*01	*03	*05	*03	*03			*01	*04			SSO,SSP,SBT
8001	Rao,Prakash					*03	*05									SSO,SSP
3519	Renac,Virginie	*04	*14					*03				*01	*04			SSP,SBT
1160	Rosen-Bronson	*04	*14	*01	*01	*03	*05	*03	*03	*01	*02	*01	*04			SSO
793	Rubocki,Ronald	*04	*14	*01	*+	*03	*05	*03	*03							SSP
4251	Schiller,Jennifer	*04	*14	*01	*01	*03	*05	*03		*01	*02	*01	*04			SSO,SBT
8068	Shanmugam,He	*04	*14	*+	*+			*03	*03							SSO,SSP
8029	Tarigopula,Anil	*04	*14					*03	*03							SSO
5451	Tilanus,Marcel			*+	*+			*03								SBT,SSP
5642	Varnavidou-Nic	*04	*14	*01	*01			*03	*03							SSP

CTR	DIRNAME	DR4	DR14	DR52	DR53			DQ7	DQ3	OTH1	OTH2
4492	Charron,D.	NT									
910	Hahn,Amy B.	+	+	+	+			+	DQ8	DR17, DR10	
4908	Kvam,Vonnett	+		+	+			DQ3		DR17	DQ2

Table 4: Individual laboratory results for B-cell #511-Class II

		High/Intermediate resolution												
Center	Investigator	DRB1		DRB3	DRB4	DQA1		DQB1		DPA1		DPB1		METHOD
5488	Adams, Sharon	*04:05:01/08:01	*14:02/13			*03:03	*05:03	*03:01:01/113	*03:02:01/14:02			*01:01:01	*04:02:01	SSO,SSP,SBT
4691	Al Ajlan, Abdula	*04:05/08	*14:02/13											SSO
5462	Arnold, Paula	*04:05	*14:02	*01:01	*01:03			*03:01/106	*03:02			*01:01	*04:02	SSO,SSP,SBT
774	Cecka, J. Michael	*04:05/90/104+	*14:02	*01:01	*01:03	*03:03	*05:03	*03:01:21/22+	*03:02/35/36+	*01:03	*02:01	*01:01	*04:02	SSO,SSP
9916	Charlton, Ron	*04:05:01	*14:02:01	*01:01	*01:03			*03:01/73/92+	*03:02					SSP,SBT
4492	Charron, D.	*04:05/178N	*14:02	*01:01	*01:03	*03:02/03	*05:03/07	*03:01/106+	*03:02	*01:03	*02:01	*01:01	*04:02	SSO,SSP
8021	Clark, Brendan	*04:05/08	*14:02/13	*01:01/04	*01:01/03	*03:02/03	*05:03/07	*03:01	*03:02			*01:01	*04:02	SSO
3632	Colombe, Beth	*04:05	*14:02	*01:01	*01:03	*03:03	*05:03	*03:01	*03:02	*01:03	*02:01	*01:01	*04:02	SSO,SSP
5130	Costeas, Paul	*04:05	*14:02	*01:01	*01:03	*03:03	*05:03	*03:01	*03:02					SSO,SSP
779	Daniel, Claude					*03:03	*05:03	*03:01	*03:02	*01:03	*02:01	*01:01	*04:02	SSO,SSP
3766	Dunn, Paul					*03:02/03	*05:03/07					*01:01	*04:02	RT-PCR,SSO,SSP
5214	Eckels/CPMC							*03:01	*03:02				*04:02	SSO
3135	Enczmann, J	*04:05	*14:02	*01:01	*01:03			*03:01	*03:02			*01:01	*04:02	SSO,SSP,SBT
762	Fischer, Gottfried	*04:05	*14:02/46	*01:01/04	*01:03	*03:03	*05:03	*03:01/19/29	*03:02			*01:01	*04:02	SSO,SBT
4079	Fort, Marylise											*01:01	*04:02	SSP,SSO
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,SBT
810	Hamdi, Nuha	*04:01/05/08+	*14:02/13+	*01:01/04	*01:01/03+	*03:02/03	*05:03/07	*03:01/04/14+	*03:02/62/63+					SSO
1694	Hesse, Nicole							*03:01	*03:02					SSP
8043	Hod, Reut	*04:05	*14:02			*03:03	*05:03	*03:01	*03:02	*01:03	*02:01	*01:01	*04:02	SSO,SSP
2344	Hurley/Hartzman	*04:05:01	*14:02:01			*03:03:01	*05:03	*03:01:01:01	*03:02:01	*01:03:01	*02:01:01	*01:01:01	*04:02:01:02	SSO
794	Jaatinen, Taina	*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			*03:03	*05:03	*03:01	*03:02					SBT
4337	Kim, Tai-Gyu	*04:05	*14:02					*03:01	*03:02			*01:01	*04:02	SBT
87	Land, Geoffrey	*04:05	*14:02	*01:01	*01:03	*03:03	*05:03	*03:01	*03:02	*01:03	*02:01	*01:01	*04:02	SBT,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	*01:01:01	*04:02	
274	Lo, Raymundo	*04:10	*14:06:01			*03:02	*05:03	*03:01	*03:02	*01:05	*01:11	*01:01	*49:01	SSO
759	Lopez-Cepero	*04:05/08/29+	*14:02/13+	*01:01/04	*01:01/03+	*03:02/03	*05:03	*03:01/27/28+	*03:02	*01:03	*02:01	*01:01P	*04:02P	SSO
8042	Muncher, Liora	*04:05	*14:02	*01:01	*01:03			*03:01	*03:02					SSO,SSP
3966	Permpikul&Vejb	*04:05	*14:02	*01:01	*01:03			*03:01	*03:02					SSP
2400	Phelan, Donna	*04:05	*14:02			*03:03	*05:03	*03:01	*03:02			*01:01	*04:02	SSO,SSP,SBT
8001	Rao, Prakash	*04:05	*14:02	*01:01	*01:03			*03:01	*03:02			*01:01	*04:02	SSO,SSP
3753	Reed, Elaine	*04:05/08	*14:02/13	*01:01/04	*01:01:01G	*03:02/03	*05:03/07	*03:01/113+	*03:02/14/74					SSO,SSP,SBT
3519	Renac, Virginie	*04:05	*14:02	*01:01	*01:03	*03:03	*05:03	*03:01	*03:02			*01:01	*04:02	SSP,SBT
1160	Rosen-Bronson	*04:05/08/178N	*14:02/13					*03:01/113	*03:02/14	*01:03	*02:01	*01:01	*04:02	SSO
793	Rubocki, Ronald											*01:01	*04:02	SSP
4251	Schiller, Jennifer	*04:05	*14:02					*03:01	*03:02			*01:01	*04:02:01G	SSO,SBT
747	Tiercy, Jean-Mar	*04:05:01	*14:02:01	*01:01	*01:03	*03:02/03	*05:03/07	*03:01:01	*03:02:01			*01:01:01	*04:02:01	SSO,SSP,SBT
5451	Tilanus, Marcel	*04:05:01	*14:02:01											SBT,SSP
5642	Varnavidou-Nic	*04:05/80/83+	*14:02					*03:01/92/93+	*03:02					SSP
3511	Zeevi, Adriana	*04:05	*14:02	*01:01P	*01:03	*03:03	*05:03	*03:01	*03:02			*01:01P	*04:02	RVSSOP,SSP

Table 5: Individual laboratory results for B-cell #511-Class I

Center	Investigator	Low Resolution						High/Intermediate resolution						METHOD
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		
5488	Adams, Sharon	*01	*02			*03	*04			*35:04:01	*82:01			SSO, SSP, SBT
4691	Al Ajlan, Abdulaziz	*01	*02	*35	*82	*03	*04							SSO
5462	Arnold, Paula							*01:01	*02:01/01L	*35:04	*82:01	*03:02	*04:01	SSO, SSP, SBT
774	Cecka, J. Michael	*01	*02	*35	*82	*03	*04							SSP
9916	Charlton, Ron	*01	*02	*35	*82	*03	*04	*01:01:01:01	*02:01:01:01	*35:04:01	*82:01	*03:02:02	*04:01:01	SSP, SBT
4492	Charron, D.							*01:01/105/110+	*02:01/01L/97+	*35:04	*82:01	*03:02/146+	*04:01/106+	SSO, SSP
8021	Clark, Brendan	*01	*02	*35	*82	*03	*04	*01:01/02/04N+	*02:01/07/09	*35:04/09/12	*82:01/02	*03:02	*04:01/05/09N	SSO
5130	Costeas, Paul							*01:01	*02:01	*35:04	*82:01	*03:02	*04:01/18	SSO, SSP
779	Daniel, Claude	*01	*02	*35	*82	*03	*04							SSO, SSP
5219	Daniel, Dolly	*01	*02	*35	*82	*03	*04							SSO
1108	DeConinck, Martha	*01	*02	*35	*82	*03	*04							SSO
3766	Dunn, Paul	*01	*02	*35	*82	*03	*04							RT-PCR, SSO, SSP
3135	Enczmann, J							*01:01	*02:01	*35:04	*82:01	*03:02	*04:01/09N	SSO, SSP, SBT
792	Gandhi, Manish							*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSO, SSP, SBT
810	Hamdi, Nuha							*01:01N/100/144	*02:01/01L/01Q+	*35:04/09/12+	*82:01/02	*03:02	*04:01/05/09N+	SSO
1694	Hesse, Nicole	*01	*02	*35	*82	*03	*04							SSP
2344	Hurley/Hartzman							*01:01:01:01	*02:01:01	*35:04:01	*82:01	*03:02:02:01	*04:01:01	SSO
794	Jaatinen, Taina	*01	*02	*35	*82	*03	*04	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01/30/82	SBT, SSO, SSP
8086	Jie, Pan							*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SBT
2847	Kihara, Masaaki	*01	*02	*35	*82	*03	*04							SSO
4337	Kim, Tai-Gyu							*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SBT
278	Lee, Jar-How	*01	*02	*35	*82	*03	*04	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	
274	Lo, Raymundo							*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSO
206	McAlack-Hanau	*01	*02	*35	*82	*03	*04							SSO
8042	Muncher, Liora	*01	*02	*35	*82	*03	*04	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSO, SSP
54	Pancoska, Carol	*01	*02	*35	*82	*03	*04							SSO
3966	Permpikul&Vejbaes	*01	*02	*35	*82	*03	*04							SSP
2400	Phelan, Donna	*01	*02	*35	*82	*03	*04	*01:01/01:01:02N	*02:01:01:01	*35:04	*82:01	*03:02	*04:01	SSO, SSP, SBT
3753	Reed, Elaine							*01:01/01:01:02N+	*02:01/90/101+	*35:04	*82:01	*03:02/15/60+	*04:01/07/11+	SBT, SSO
3519	Renac, Virginie	*01	*02	*35	*82	*03	*04	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSP, SBT
4251	Schiller, Jennifer	*01	*02	*35	*82	*03	*04	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01P	SSO, SBT
8068	Shanmugam, Hema	*01	*02	*35	*82	*03	*04							SSO, SSP
8029	Tarigopula, Anil	*01	*02	*35	*82	*03	*04							SSO

Table 6: Individual laboratory results for B-cell #512-Class II

Center	Investigator	Low resolution										METHOD		
		DRB1		DRB3	DRB3	DQA1		DQB1		DPA1			DPB1	
5488	Adams, Sharon			*02	*03									SSO,SSP,SBT
4691	Al Ajlan, Abdulaziz							*06	*06					SSO
9916	Charlton, Ron	*11	*13	*+				*06	*06					SSP, SBT
8021	Clark, Brendan	*11	*13	*02	*03	*01		*06	*06			*02	*105	SSO
3632	Colombe, Beth	*11	*13	*02	*03	*01	*01	*06	*06	*01	*04		*105	SSO,SSP
779	Daniel, Claude	*11	*13	*02	*03	*01		*06	*06	*01	*04	*02	*105	SSO,SSP
5219	Daniel, Dolly	*11	*13	*+	*+			*06	*06					SSO,SSP
1108	DeConinck, Martha	*11	*13	*+	*+	*01	*01	*06	*06	*01	*04			SSO
3766	Dunn, Paul	*11	*13	*+		*01		*06		*01	*04			RT-PCR,SSP
5214	Eckels/CPMC	*11	*13	*02	*03	*01		*06	*06	*01	*04	*02	*105	SSO
4079	Fort, Marylise	*11	*13					*06						SSP,SSO
910	Hahn, Amy B.	*11	*13	*+				*06						SSP
1694	Hesse, Nicole	*11	*13	*+										SSP
8043	Hod, Reut	*11	*13					*06	*06					SSO,SSP
771	Israel, Shoshana	*11	*13					*06						SSO
794	Jaatinen, Taina	*11	*13											SBT,SSO,SSP
2847	Kihara, Masaaki	*11	*13											SSO
4908	Kvam, Vonnnette	*11		*+										Other
87	Land, Geoffrey	*11	*13	*02	*03	*01	*01	*06	*06	*01	*04	*02	*105	SSO,SSP,SBT
725	Lardy, N.M.	*11	*13	*+		*01		*06						SSO
278	Lee, Jar-How	*11	*13	*02	*03	*01	*01	*06	*06	*01	*04	*02	*105	
6649	Lim, Young Ae	*11	*13	*+	*+									SSP
206	McAlack-Hanau	*11	*13	*02	*03	*01	*01	*06	*06	*01	*04	*02	*105	SSO
8042	Muncher, Liora	*11	*13	*02	*03			*06						SSO,SSP
54	Pancoska, Carol	*11	*13	*02	*03	*01	*01	*06	*06	*01	*04	*02	*105	SSO
2400	Phelan, Donna	*11	*13	*02	*03	*01		*06	*06			*02	*04	SSO,SSP,SBT
8001	Rao, Prakash					*01								SSO,SSP
3519	Renac, Virginie	*11	*13					*06				*02	*105	SSP,SBT
1160	Rosen-Bronson	*11	*13	*02	*03	*01		*06	*06	*01	*04	*02	*105	SSO
793	Rubocki, Ronald	*11	*13	*02	*03	*01		*06						SSP
4251	Schiller, Jennifer	*11	*13	*02	*03	*01	*01	*06		*01	*04	*02	*105	SSO,SBT
8068	Shanmugam, Hema	*11	*13	*+				*06						SSO,SSP
8029	Tarigopula, Anil	*11	*13					*06	*06					SSO
5451	Tilanus, Marcel			*+				*06						SBT,SSP
5642	Varnavidou-Nicola	*11	*13	*02	*03			*06	*06					SSP

Table 7: Individual laboratory results for B-cell #512-Class II

Center	Investigator	High/Intermediate resolution										METHOD	
		DRB1		DRB3	DRB3	DQA1	DQB1		DPA1		DPB1		
5488	Adams,Sharon	*11:01	*13:02		*03:01	*01:02/11	*06:02:01/84	*06:09:01/88			*02:01:02	*105:01	SSO,SSP,SBT
4691	Al Ajlan,Abdulaziz	*11:01/95/97+	*13:02/128										SSO
5462	Arnold,Paula	*11:01	*13:02	*02:02/28/29N	*03:01		*06:02/72/84+	*06:09/88			*02:01	*04:02P	SSO,SSP,SBT
774	Cecka,J.Michael	*11:01/133+	*13:02/142N+	*02:02/26/28+	*03:01	*01:02	*06:02/33/37+	*06:09/88+	*01:03	*04:01			SSP,SSO
9916	Charlton,Ron	*11:01:02	*13:02:01	*02:02/05	*03:01/02		*06:02/49/84+	*06:09/88					SSP,SBT
4492	Charron,D.	*11:01/95/97+	*13:02	*02:02	*03:01	*01:02/08/09+	*06:02/88+	*06:09	*01:03	*04:01	*02:01	*105:01/*04:02+	SSO,SSP
3224	Chen,Dong-Feng												SSO,SSP,SBT
8021	Clark,Brendan	*11:01	*13:02	*02:02	*03:01	*01:02/08	*06:02	*06:09			*02:01	*105:01	SSO
3632	Colombe,Beth	*11:01	*13:02	*02:02	*03:01	*01:02	*06:02	*06:09	*01:03	*04:01	*352:01	*105:01	SSO,SSP
5130	Costeas,Paul	*11:01	*13:02	*02:02	*03:01	*01:02	*06:02	*06:09					SSO,SSP
779	Daniel,Claude				*03:01	*01:02			*01:03	*04:01	*02:01:02G	*105:01	SSP,SSO
3766	Dunn,Paul									*04:01	*02:01	*105:01	RT-PCR,SSP
3135	Enczmann,J	*11:01	*13:02	*02:02	*03:01		*06:02	*06:09			*02:01	*105:01	SSO,SSP,SBT
762	Fischer,Gottfried	*11:01/30/95+	*13:02/67/103+	*02:02/12/28+	*03:01	*01:02	*06:02	*06:09			*02:01	*105:01	SSO,SSP,SBT
4079	Fort,Marylise										*02:01	*105:01	SSP,SSO
792	Gandhi,Manish	*11:01	*13:02	*02:02	*03:01	*01:02	*06:02	*06:09			*02:01	*105:01	SSO,SSP,SBT
810	Hamdi,Nuha	*11:01/32/51	*13:02/73/96+	*02:02/28/29N	*03:01	*01:09	*06:09/88/94+	*06:09/66/88+					SSO
1694	Hesse,Nicole						*06:02	*06:09					SSP
8043	Hod,Reut	*11:01	*13:02			*01:02	*06:02	*06:09	*01:03	*04:01			SSO,SSP
2344	Hurley/Hartzman	*11:01:02	*13:02:01			*01:02:01	*06:02:01/84	*06:09:01/88	*01:03:01	*04:01	*02:01:02	*105:01	SSO
794	Jaatinen,Taina	*11:01	*13:02	*02:02	*03:01	*01:02/08/09+	*06:02	*06:09	*01:03	*04:01	*02:01	*105:01	SBT,SSO,SSP
8086	Jie,Pan	*11:01	*13:02			*01:02	*06:02	*06:09					
4337	Kim,Tai-Gyu	*11:01:02	*13:02				*06:02	*06:09			*02:01	*105:01	SBT
87	Land,Geoffrey	*11:01	*13:02	*02:02	*03:01	*01:02	*06:02	*06:09	*01:03	*04:01	*02:01	*105:01	SBT,SSO,SSP
278	Lee,Jar-How	*11:01	*13:02	*02:02	*03:01	*01:02	*06:02	*06:09	*01:03	*04:01	*02:01	*105:01/*04:02	
274	Lo,Raymundo	*11:74	*13:02			*01:02	*06:19	*06:22	*01:05	*01:11	*02:01	*02:01	SSO
759	Lopez-Cepero	*11:01/05/09+	*13:02/73/96+	*02:02/28/29N	*03:01	*01:02/08/09+	*06:02/72/73+	*06:09/88	*01:03	*04:01	*02:01P	*04:02P	SSO
8042	Muncher,Liora	*11:01:02	*13:02	*02:02	*03:01		*06:02	*06:09					SSO,SSP
3966	Permpikul&Vejbaes	*11:01	*13:02	*02:02	*03:01		*06:02	*06:09					SSP
2400	Phelan,Donna	*11:01	*13:02			*01:02	*06:02	*06:09			*02:01	*105:01/*04:02	SSO,SSP,SBT
8001	Rao,Prakash	*11:01	*13:02	*02:02	*03:01		*06:02	*06:09			*02:01	*105:01	SSO,SSP
3753	Reed,Elaine	*11:01/09/11+	*13:02/05/14+	*02:02:01G	*03:01	*01:02:01G	*06:02/11/12+	*06:09:01G					SSO,SSP,SBT
3519	Renac,Virginie	*11:01	*13:02	*02:02	*03:01	*01:02	*06:02/84	*06:09/88			*02:01	*105:01	SSP,SBT
1160	Rosen-Bronson	*11:01/95/100+	*13:02/103/128		*03:01		*06:02/84	*06:09/88	*01:03	*04:01	*02:01	*105:01	SSO
793	Rubocki,Ronald										*02:01:02G	*105:01	SSP
4251	Schiller,Jennifer	*11:01	*13:02				*06:02:01G	*06:09:01G			*02:01:02G	*04:02:01G	SSO,SBT
747	Tiercy,Jean-Marie	*11:01:02	*13:02:01	*02:02	*03:01	*01:02/08/09+	*06:02:01	*06:09:01			*02:01:02	*105:01	SSO,SSP,SBT
5451	Tilanus,Marcel	*11:01:02	*13:02:01										SBT,SSP
5642	Varnavidou-Nicola	*11:01/74/75	*13:02/99/109				*06:02/107	*06:09/88					SSP
3511	Zeevi,Adriana	*11:01P	*13:02	*02:02	*03:01	*01:02	*06:02	*06:09			*02:01	*105:01	RVSSOP,SSP

Table 8: Individual laboratory results for B-cell #512-Class I

Center	Investigator	Low Resolution						High/Intermediate resolution						METHOD
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		
5488	Adams, Sharon							*26:01:01	*74:01/02:01	*78:01:01	*81:01/02	*16:01:01	*18:01/02	SSO,SSP,SBT
4691	Al Ajlan,Abdulaziz	*26	*74	*78	*81	*16	*18							SSO
5462	Arnold, Paula							*26:01	*74:01	*78:01	*81:01	*16:01	*18:01	SSO,SSP,SBT
774	Cecka, J. Michael	*26	*74	*78	*81	*16	*18							SSO,SSP
9916	Charlton, Ron	*26	*74	*78	*81	*16	*18	*26:01:01	*74:01	*78:01:01	*81:01	*16:01:01	*18:01	SSP,SBT
4492	Charron, D.							*26:01/101+	*74:01/18/19+	*78:01	*81:01/03/07	*16:01/58+	*18:01	SSO,SSP
8021	Clark, Brendan	*26	*74	*78	*81	*16	*18	*26:01/10/15	*74:01/02	*78:01	*81:01/02/03+	*16:01/08	*18:01/02/04	SSO
5130	Costeas, Paul							*26:01	*74:01	*78:01	*81:01	*16:01	*18:01	SSO,SSP
779	Daniel, Claude	*26	*74	*78	*81	*16	*18							SSO,SSP
5219	Daniel, Dolly	*26	*74	*78	*81	*16	*18							
1108	DeConinck, Martha	*26	*74	*78	*81	*16	*18							SSO
3766	Dunn, Paul	*26	*74	*78	*81	*16	*18							RT-PCR,SSP
3135	Enczmann, J							*26:01	*74:01	*78:01	*81:01	*16:01	*18:01	SSO,SSP,SBT
792	Gandhi, Manish							*26:01	*74:01	*78:01	*81:01	*16:01	*18:01	SSO,SSP,SBT
810	Hamdi, Nuha							*26:01/10/15+	*74:01/02/09+	*56:06	*81:01/02/03+			SSO
1694	Hesse, Nicole	*26	*74	*78	*81	*16	*18							SSP
2344	Hurley/Hartzman							*26:01:01	*74:01	*78:01:01	*81:01	*16:01:01	*18:01	SSO
794	Jaatinen, Taina	*26	*74	*78	*81	*16	*18	*26:01	*74:01/02	*78:01	*81:01/02	*16:01	*18:01/02	SBT,SSO,SSP
8086	Jie, Pan							*26:01	*74:01	*78:01	*81:01	*16:01	*18:01	SBT
2847	Kihara, Masaaki	*26	*74	*78	*81	*16	*18							SSO
4337	Kim, Tai-Gyu							*26:01	*74:01	*78:01	*81:01	*16:01	*18:01	SBT
278	Lee, Jar-How	*26	*74	*78	*81	*16	*18	*26:01	*74:01	*78:01	*81:01	*16:01	*18:01	
274	Lo, Raymundo							*26:72	*74:20	*56:06	*81:01	*16:01	*18:01	SSO
206	McAlack-Hanau	*26	*74	*78	*81	*16	*18							SSO
8042	Muncher, Liora	*26	*74	*78	*81	*16	*18	*26:01	*74:01	*78:01	*81:01	*16:01	*18:01	SSO,SSP
54	Pancoska, Carol	*26	*74	*78	*81	*16	*18							SSO
3966	Permpikul&Vejbaes	*26	*74	*78	*81	*16	*18							SSP
2400	Phelan, Donna	*26	*74	*78	*81	*16	*18	*26:01	*74:01/02	*78:01	*81:01/02	*16:01	*18:01/02	SSO,SSP,SBT
3753	Reed, Elaine							*26:01	*74:01:01G	*78:01	*81:01:01G	*16:01	*18:01:01G	SSO,SSP,SBT
3519	Renac, Virginie	*26	*74	*78	*81	*16	*18	*26:01	*74:01	*78:01	*81:01	*16:01	*18:01	SSP,SBT
4251	Schiller, Jennifer	*26	*74	*78	*81	*16	*18	*26:01	*74:01:01G	*78:01	*81:01:01G	*16:01	*18:01:01G	SSO,SBT
8068	Shanmugam, Hema	*26	*74	*78	*81	*16	*18							SSO,SSP
8029	Tarigopula, Anil	*26	*74	*78	*81	*16	*18							SSO

Cell Exchange #385

The results for Cell Exchange #385 are summarized in Table 9 and Table 10. Molecular typing results for individual laboratories are listed in Ta-

bles 11 -14 for each sample and individual serology results for each sample are listed in Table 15.

Cell 1537. The consensus type for this sample from a Hispanic donor is A*01:01(A1)-A*03:01(A3)-B*07:02(B7)-B*27:02(B27)-C*02:02(Cw2)-C*07:02(Cw7). One likely association in this cell is B*07:02-C*07:02, ranked as the second most common association in Hispanics, with HF=0.04916. The other likely association is, B*27:02-C*02:02, with HF=0.00226 in Hispanics. The B*27:02-C*02:02 association in this cell was also observed in previous B*27:02 donors, cells 994 (Hisp), 1189 (Cauc), and 1418 (Cauc).

B*27:02 was well typed by 88%, with 6 labs assigning B*27:02:01. B27 (92%) was detected by serology, with 1 lab reporting B27V. B*07:02 (61%) was reported as the second B-locus type, with 3 labs reporting B*07:02:01. B7 was assigned in complete consensus. A1 and A3 were also assigned in complete consensus and confirmed as A*01:01 (62%) and A*03:01 (62%).

Cell 1538. The consensus type for this sample from a donor of Black and Caucasian heritage is A*11:01(A11)-A*26:01(A26)-B*18:01(B18)-B*27:05(B27)-C*06:08-C*07:01(Cw7). One likely association in this cell is B*27:05-C*06:08, observed exclusively in African Americans, with HF=0.00042. The other probable association is B*18:01-C*07:01. B*18:07-C*07:01 is observed commonly across all populations, with the highest frequency occurring among Caucasians, HF=0.01795.

This is the first C*06:08 cell typed in the Cell Exchange. C*06:08 was reported in complete consensus by labs reporting at high resolution. Interestingly, Cw6 was assigned by only 17% of the serology labs. Another 17% reported Cw2 as being present, as several labs noted additional or weak reactivity with Cw2 sera. Cw7 (38%) was reported as the second C-locus type and confirmed as C*07:01 (50%). B*18:01 and B*27:05 were assigned by 66% and 53%, respectively. B18 (96%) and B27 (100%) were assigned by serology.

Cell 1539. The consensus type for this sample from a Caucasian donor is A*11:01(A11)-A*26:01(A26)-B*14:01(B64)-B*27:05(B27)-C*02:02(Cw2)-C*08:02(Cw8). The likely haplotypes in this cell are A*11:01-B*27:05-C*02:02 and A*26:01-B*14:01-C*08:02, with respective frequencies of 0.00081 and 0.00095, in Caucasians. The A*11:01-B*27:05-C*02:02 haplotype in this cell was also observed in cell 1097 from a Black donor.

B14 was reported in complete consensus, with 55% of labs assigning B64. The presence of B64 was confirmed by DNA as B*14:01 (80%). B*14:01:01 was reported by 6 labs. B27 was also reported in complete consensus, with DNA assigning B*27:05 (50%). A11 and A26 were each assigned by 96% and confirmed as A*11:01 (81%) and A*26:01 (81%).

Cell 1540. The consensus type for this sample from a Hispanic donor is A*02:02(A2)-A*24:02(A24)-B*27:05(B27)-B*39:06(B39)-C*02:02(Cw2)-C*07:02(Cw7). The likely associations in this cell are B*27:05-C*02:02 and B*39:06-C*07:02, with respective frequencies of HF=0.00702 and 0.01982, in Hispanics.

This cell was previously studied as cell 1325 (2008) and extract 500 (2010), as astutely identified by Lopez-Cepero and Pancoska. In this present retyping, B39 was reported by 96%. B*39:06 was assigned by 87%, with 4 labs assigning B*39:06:02. The presence of a possible new B*39:06 allele was noted by Arnold, "This sample appears to contain a new B*39:06 allele with 2 base pair changes in intron 2. There is an insertion of a "G" at (IMGT) position 687, and a G to T at position 692. We discovered this using a resolution primer (Conexio) that only sequences the B*39:06 alleles. It is not clear if these nucleotide changes have any effect on expression of the protein."

B27 was assigned in complete consensus as the second B-locus type and confirmed as B*27:05 (60%) by DNA. A2 (96%) and A24 (100%) were assigned as the A-locus types and confirmed as A*02:02 (82%) and A*24:02 (87%).

Table 9. Summary of the 385th Cell Exchange (Cell #1537-1540)

DNA typing							
Cell 1537		Cell 1538		Cell 1539		Cell 1540	
<u>16 labs High/Inter;22 labs Low</u>	% (n)	<u>16 labs High/Inter;22 labs Low</u>	% (n)	<u>16 labs High/Inter;20 labs Low</u>	% (n)	<u>17 labs High/Inter;20 labs Low</u>	% (n)
A*01:01:01:01	6 (1)	A*11:01:01	19(3)	A*11:01:01	12(2)	A*02:02:01	6 (1)
A*01:01:01	6 (1)	A*11:01:01G	6 (1)	A*11:01:01G	6 (1)	A*02:02	76(13)
A*01:01:01G	6 (1)	A*11:01	56(9)	A*11:01	63(10)	A*02:02+	18(3)
A*01:01	44(7)	A*11:01+	19(3)	A*11:01+	19(3)	A*02	100(20)
A*01:01+	38(6)	A*11	100(22)	A*11	100(20)		
A*01	100(22)						
<u>16 labs High/Inter;22 labs Low</u>	% (n)	<u>16 labs High/Inter;22 labs Low</u>	% (n)	<u>16 labs High/Inter;20 labs Low</u>	% (n)	<u>16 labs High/Inter;20 labs Low</u>	% (n)
A*03:01:01	12(2)	A*26:01:01	19(3)	A*26:01:01	12(2)	A*24:02:01	6 (1)
A*03:01:01G	6 (1)	A*26:01:01G	6 (1)	A*26:01:01G	6 (1)	A*24:02:01G	6 (1)
A*03:01	44(7)	A*26:01	56(9)	A*26:01	63(10)	A*24:02	75(12)
A*03:01+	38(6)	A*26:01+	19(3)	A*26:01+	19(3)	A*24:02+	13(2)
A*03	100(22)	A*26	100(22)	A*26	100(20)	A*24	100(20)
<u>15 labs High/Inter;22 labs Low</u>	% (n)	<u>15 labs High/Inter;22 labs Low</u>	% (n)	<u>20 labs High/Inter;20 labs Low</u>	% (n)	<u>15 labs High/Inter;20 labs Low</u>	% (n)
B*07:02:01	20(3)	B*18:01:01	13(2)	B*14:01:01	30(6)	B*27:05:02	7 (1)
B*07:02:01G	14(2)	B*18:01:01G	13(2)	B*14:01	50(10)	B*27:05:02G	13(2)
B*07:02	27(4)	B*18:01	40(6)	B*14:01+	20(4)	B*27:05	40(6)
B*07:02+	40(6)	B*18:01+	33(5)	B*14(B64)	12(2)	B*27:05+	40(6)
B*07	100(22)	B*18	100(22)	B*14	88(20)	B*27	100(20)
<u>16 labs High/Inter;22 labs Low</u>	% (n)	<u>15 labs High/Inter;22 labs Low</u>	% (n)	<u>16 labs High/Inter;20 labs Low</u>	% (n)	<u>15 labs High/Inter;20 labs Low</u>	% (n)
B*27:02:01	38(6)	B*27:05:02	7 (1)	B*27:05:02	6 (1)	B*39:06:02	27(4)
B*27:02	50(8)	B*27:05:02G	13(2)	B*27:05:02G	13(2)	B*39:06:01	7 (1)
B*27:02+	12(2)	B*27:05	33(5)	B*27:05	31(5)	B*39:06	53(8)
B*27	100(22)	B*27:05+	47(7)	B*27:05+	50(8)	B*39:06+	13(2)
		B*27	100(22)	B*27	100(20)	B*39	100(20)
<u>16 labs High/Inter;21 labs Low</u>	% (n)	<u>18 labs High/Inter;21labs Low</u>	% (n)	<u>15 labs High/Inter;19 labs Low</u>	% (n)	<u>16 labs High/Inter;19 labs Low;</u>	% (n)
C*02:02:02	25(4)	C*06:08	100(18)	C*02:02:02	27(4)	C*02:02:02G	6 (1)
C*02:02:02G	6 (1)	C*06	100(20)	C*02:02:02G	6 (1)	C*02:02:02	31(5)
C*02:02	44(7)			C*02:02	47(7)	C*02:02	44(7)
C*02:02+	25(4)			C*02:02+	20(3)	C*02:02+	19(3)
C*02	100(21)			C*02	100(19)	C*02	100(19)
<u>16 labs High/Inter;21 labs Low</u>	% (n)	<u>16 labs High/Inter;21 labs Low</u>	% (n)	<u>15 labs High/Inter;19 labs Low</u>	% (n)	<u>16 labs High/Inter;19 labs Low</u>	% (n)
C*07:02:01	6 (1)	C*07:01:01G	12(2)	C*08:02:01	27(4)	C*07:02:01	19(3)
C*07:02:01G	12(2)	C*07:01	38(6)	C*08:02:01G	6 (1)	C*07:02:01G	12(2)
C*07:02	38(6)	C*06:118	6 (1)	C*08:02	47(7)	C*07:02	31(5)
C*07:02+	44(7)	C*07:01+	44(7)	C*08:02+	20(3)	C*07:02+	38(6)
C*07	100(21)	C*07	100(21)	C*08	100(19)	C*07	100(19)

Table 10: Summary of the 385th Cell Exchange (Cell #1537-1540)

Serological Typing

(Hispanic) Cell 1537	
(24 Samples Typed)	
A1	100.00%
A3	100.00%
B7	100.00% [100.0%]
B27	87.50%
B27V	4.20% [91.7%]
CW2	50.00%
CW7	50.00%
BW4	75.00%
BW6	75.00%
Others Found	
B81	4.20%
CW17	4.20%

(Mixed) Cell 1538	
(24 Samples Typed)	
A11	91.70%
A11.1	4.20% [95.8%]
A26	95.80%
A10	4.20% [100.0%]
B18	95.80%
B27	100.00% [100.0%]
CW6	16.70%
CW2	16.70%
CW7	37.50%
BW4	75.00%
BW6	75.00%
Others Found	
CW17	4.20%
A66	4.20%

(Caucasian) Cell 1539	
(22 Samples Typed)	
A11	95.50%
A11.1	4.50% [100.0%]
A26	95.50%
A10	4.50% [100.0%]
B14	45.50%
B64	54.50% [100.0%]
B27	100.00% [100.0%]
CW2	54.50%
CW8	40.90%
BW4	72.70%
BW6	72.70%
Others Found	
A66	4.50%
CW5	4.50%

(Hispanic) Cell 1540	
(22 Samples Typed)	
A2	95.50% [95.5%]
A24	100.00% [100.0%]
B27	100.00% [100.0%]
B39	95.50% [95.5%]
CW2	54.50%
CW7	50.00%
BW4	72.70%
BW6	72.70%
Others Found	
B16V	4.50%
CW17	4.50%
CW5	4.50%

Table 11. Individual laboratory results for Cell #1537

Center	Investigator	Low Resolution						High/Intermediate resolution						Method
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		
5462	Arnold,Paula							*01:01	*03:01	*07:02	*27:02	*02:02	*07:02	SSO,SBT
16	Askar,Medhat	*01	*03	*07	*27	*02	*07	*01:01/100	*03:01/63	*07:02:01/61+	*27:02:01/95	*02:02/27:01+	*07:02:01/27:02+	SSO,SBT
8038	Cao,Kai							*01:01:01:01+	*03:01:01:01+	*07:02/61/161N	*27:02:01	*02:02:02	*07:02/50/349	SSO,SBT
774	Cecka,J.Michael	*01	*03	*07	*27	*02	*07				*27:02			SSP
4492	Charron,D.	*01	*03	*07	*27	*02	*07							SSP
798	Claas,F.H.J.							*01:01:01:01	*03:01:01	*07:02:01	*27:02:01	*02:02:02	*07:02:01	SBT
3632	Colombe,Beth	*01	*03	*07	*27	*02	*07	*01:01	*03:01	*07:02	*27:02	*02:02	*07:02	SSO,SSP
779	Daniel,Claude	*01	*03	*07	*27	*02	*07							SSO,SSP
3766	Dunn,Paul	*01	*03	*07	*27	*02	*07							SSO
5214	Eckels/CPMC	*01	*03	*07	*27	*02	*07							SSO
762	Fischer,Gottfried	*01	*03	*07	*27	*02	*07							SSO,SSP
4079	Fort,Marylise	*01	*03	*07	*27	*02	*07							SSP
3545	Goldstein,Steven							*01:01/01:01:02N	*03:01/01:01:02N	*07:02/61/161N+	*27:02	*02:02	*07:02/50/349	SSO,SBT
810	Hamdi,Nuha							*01:01/01L/01N+	*03:01/01N/03N+			*02:02/07/08+	*07:02/76/305	SSO
8043	Hod,Reut	*01	*03	*07	*27	*02	*07	*01:01	*03:01	*07:02	*27:02	*02:02	*07:02	SSO,SSP
771	Israel,Shoshana	*01	*03	*07	*27	*02	*07	*01:01:01G	*03:01:01G	*07:02:01G	*27:02:01	*02:02:02G	*07:02:01G	SBT
725	Lardy,N.M.	*01	*03	*07	*27	*02	*07							SSO
745	Latham, Katy							*01:01	*03:01	*07:02:01	*27:02:01	*02:02:02	*07:02/50	SSO,SSP,SBT
278	Lee,Jar-How	*01	*03	*07	*27	*02	*07	*01:01/01L/06+	*03:01/04/44+	*07:02/156/161N+	*27:02	*02:02/29/69+	*07:02/159/160+	
6649	Lim,Young Ae	*01	*03	*07	*27									SSP
731	Loewenthal,R							*01:01	*03:01	*07:02:01	*27:02:01	*02:02:02	*07:02	SSO,SBT
759	Lopez-Cepero							*01:01/02/04N+	*03:01/03N/04+	*07:02/10/15+	*27:02/53/57+	*02:02/07/08+	*07:02/13/23+	SSO
54	Pancoska,Carol	*01	*03	*07	*27	*02	*07							SSO
8001	Rao,Prakash	*01	*03	*07	*27	*02	*07							SSO
3625	Rees,Tracey	*01	*03	*07	*27	*02	*07	*01:01	*03:01	*07:02/61	*27:02	*02:02	*07:02	SSP,SBT
1160	Rosen-Bronson	*01	*03	*07	*27	*02	*07							SSO
793	Rubocki,Ronald	*01	*03	*07	*27	*02	*07							SSP
4251	Schiller,Jennifer							*01:01	*03:01	*07:02:01G	*27:02	*02:02	*07:02:01G	SSO,SBT
3808	Thornton,Alycia	*01	*03	*07	*27	*02	*07							SSP
747	Tiercy,Jean-Marie							*01:01:01	*03:01:01	*07:02	*27:02:01	*02:02	*07:02	SSO,SSP,SBT
5642	Varnavidou-Nico	*01	*03	*07	*27	*02	*07							SSP
3186	Watson,Narelle	*01	*03	*07	*27	*02	*07							SSO

Table 12. Individual laboratory results for Cell #1538

Center	Investigator	Low Resolution						High/Intermediate resolution						Method
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		
5462	Arnold,Paula							*11:01	*26:01	*18:01	*27:05	*06:08	*07:01	SSO,SBT
16	Askar,Medhat	*11	*26	*18	*27	*06	*07	*11:01	*26:01	*18:01/02/10+	*27:05/13/28+	*06:08	*07:01:01/166	SSO,SBT
8038	Cao,Kai							*11:01:01	*26:01:01	*18:01:01	*27:05/13	*06:08	*07:01/06/18+	SSO,SBT
774	Cecka,J.Michael	*11	*26	*18	*27	*06	*07					*06:08		SSP
4492	Charron,D.	*11	*26	*18	*27	*06	*07							SSP
798	Claas,F.H.J.							*11:01:01	*26:01:01	*18:01:01	*27:05:02	*06:08	*07:01/166	SBT
3632	Colombe,Beth	*11	*26	*18	*27	*06	*07	*11:01	*26:01	*18:01	*27:05	*06:08	*07:01	SSO,SSP
779	Daniel,Claud	*11	*26	*18	*27	*06	*07							SSO,SSP
3766	Dunn,Paul	*11	*26	*18	*27	*06	*07					*06:08		SSO
5214	Eckels/CPMC	*11	*26	*18	*27	*06	*07							SSO
762	Fischer,Gottfried	*11	*26	*18	*27	*06	*07							SSO,SSP
4079	Fort,Marylise	*11	*26	*18	*27	*06	*07							SSP
3545	Goldstein,Steven							*11:01	*26:01	*18:01/17N	*27:05/13	*06:08	*07:01/06/18+	SSO,SBT
810	Hamdi,Nuha							*11:01/02/03+	*26:01/04/10+	*18:01/02/05+	*27:03/05/13+	*06:08	*06:118	SSO
8043	Hod,Reut	*11	*26	*18	*27	*06	*07	*11:01	*26:01	*18:01	*27:05	*06:08	*07:01	SSO,SSP
771	Israel,Shoshana	*11	*26	*18	*27	*06	*07	*11:01:01G	*26:01:01G	*18:01:01G	*27:05:02G	*06:08	*07:01:01G	SBT
725	Lardy,N.M.	*11	*26	*18	*27	*06	*07							SSO
745	Latham, Katy							*11:01	*26:01	*18:01	*27:05/13	*06:08	*07:01/166	SSO,SSP,SBT
278	Lee,Jar-How	*11	*26	*18	*27	*06	*07	*11:01/69N/86+	*26:01/77/82+	*18:01/53/73+	*27:05/96	*06:08	*07:01/103+	
6649	Lim,Young Ae	*11	*26	*18	*27									SSP
731	Loewenthal,R							*11:01:01	*26:01:01	*18:01	*27:05	*06:08	*07:01	SSO,SBT
759	Lopez-Cepero							*11:01/02/03+	*26:01/04/10+	*18:01/02/05+	*27:03/05/13+	*06:08	*07:01/06/18+	SSO
54	Pancoska,Carol	*11	*26	*18	*27	*06	*07							SSO
8001	Rao,Prakash	*11	*26	*18	*27	*06	*07							SSO
3625	Rees,Tracey	*11	*26	*18	*27	*06	*07	*11:01	*26:01			*06:08	*07:01	SSP,SBT
1160	Rosen-Bronson	*11	*26	*18	*27	*06	*07							SSO
793	Rubocki,Ronald	*11	*26	*18	*27	*06	*07							SSP
4251	Schiller,Jennifer							*11:01	*26:01	*18:01:01G	*27:05:02G	*06:08	*07:01:01G	SSO,SBT
3808	Thornton,Alycia	*11	*26	*18	*27	*06	*07							SSP
747	Tiercy,Jean-Marie							*11:01	*26:01	*18:01	*27:05	*06:08	*07:01	SSO,SSP,SBT
5642	Varnavidou-Nico	*11	*26	*18	*27	*06	*07							SSP
3186	Watson,Narelle	*11	*26	*18	*27	*06	*07							SSO

Table 13. Individual laboratory results for Cell #1539

Center	Investigator	Low Resolution						High/Intermediate resolution						Method
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		
5462	Arnold,Paula							*11:01	*26:01	*14:01	*27:05	*02:02	*08:02	SSO,SBT
16	Askar,Medhat	*11	*26	*14	*27	*02	*08	*11:01	*26:01	*14:01:01	*27:05/13	*02:02/32	*08:02:01/29	SSO,SBT
8038	Cao,Kai							*11:01:01	*26:01:01	*14:01:01	*27:05/13	*02:02:02	*08:02:01	SSO,SBT
774	Cecka,J.Michael	*11	*26	*14	*27	*02	*08							SSP
4492	Charron,D.	*11	*26	*14	*27	*02	*08							SSP
798	Claas,F.H.J.							*11:01:01	*26:01:01	*14:01:01	*27:05:02	*02:02:02	*08:02:01	SBT
3632	Colombe,Beth	*11	*26	*14	*27	*02	*08	*11:01	*26:01	*14:01	*27:05	*02:02	*08:02	SSO,SSP
779	Daniel,Claud	*11	*26	*14	*27	*02	*08			*14:01				SSO,SSP
3766	Dunn,Paul	*11	*26	*14	*27	*02	*08							SSO
5214	Eckels/CPMC	*11	*26	*14	*27	*02	*08							SSO
762	Fischer,Gottfried							*11:01	*26:01	*14:01	*27:05/13	*02:02	*08:02	SSO,SSP,SBT
4079	Fort,Marylise	NT						NT						SSP
3545	Goldstein,Steven							*11:01	*26:01	*14:01	*27:05/13	*02:02	*08:02	SSO,SBT
810	Hamdi,Nuha							*11:01/02/03+	*26:01/04/10+	*14:01/12/26+	*27:03/05/13+			SSO
8043	Hod,Reut	*11	*26	*14	*27	*02	*08	*11:01	*26:01	*14:01	*27:05	*02:02	*08:02	SSO,SSP
771	Israel,Shoshana	*11	*26	*14	*27	*02	*08	*11:01:01G	*26:01:01G	*14:01:01	*27:05:02G	*02:02:02G	*08:02:01G	SBT
725	Lardy,N.M.	*11	*26	*14	*27	*02	*08							SSO
745	Latham, Katy							*11:01	*26:01	*14:01:01	*27:05/13	*02:02:02	*08:02:01	SSO,SSP,SBT
278	Lee,Jar-How	*11	*26	*14	*27	*02	*08	*11:01/86/100+	*26:01/69/77+	*14:01/40	*27:05/96	*02:02/69/70+	*08:02/34/52N+	
6649	Lim,Young Ae	*11	*26	*14(B64)	*27									SSP
731	Loewenthal,R							*11:01	*26:01	*14:01:01	*27:05	*02:02:02	*08:02:01	SSO,SBT
759	Lopez-Cepero							*11:01/02/03+	*26:01/04/10+	*14:01/12/26+	*27:03/05/13+	*02:02/08/09+	*08:02/05/17+	SSO
54	Pancoska,Carol	*11	*26	*14	*27	*02	*08							SSO
8001	Rao,Prakash	*11	*26	*14	*27	*02	*08			*14:01				SSO
3625	Rees,Tracey	*11	*26	*14	*27	*02	*08	*11:01	*26:01	*14:01	*27:05	*02:02	*08:02	SSP,SBT
1160	Rosen-Bronson	*11	*26	*14	*27	*02	*08			*14:01/12/26+				SSO
793	Rubocki,Ronald	*11	*26	*14(B64)	*27	*02	*08							SSP
4251	Schiller,Jennifer							*11:01	*26:01	*14:01	*27:05:02G	*02:02	*08:02	SSO,SBT
3808	Thornton,Alycia	*11	*26	*14	*27	*02	*08							SSP
747	Tiercy,Jean-Marie	NT						NT						SSO,SSP,SBT
5642	Varnavidou-Nico	*11	*26	*14	*27	*02	*08							SSP
3186	Watson,Narelle	*11	*26	*14	*27	*02	*08			*14:01				SSO

Table 14. Individual laboratory results for Cell #1540

Center	Investigator	Low Resolution						High/Intermediate resolution						Method
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		
5462	Arnold,Paula							*02:02	*24:02	*27:05	*39:06	*02:02	*07:02	SSO,SBT
16	Askar,Medhat	*02	*24	*27	*39	*02	*07	*02:02	*24:02	*27:05/13/71	*39:06:02/50	*02:02/27:01+	*07:02:01/27:02+	SSO,SBT
8038	Cao,Kai							*02:02	*24:02	*27:05/13	*39:06:02	*02:02:02	*07:02/50/349	SSO,SBT
774	Cecka,J.Michael	*02	*24	*27	*39	*02	*07	*02:02/320/492+						SSP
4492	Charron,D.	*02	*24	*27	*39	*02	*07							SSP
798	Claas,F.H.J.							*02:02:01	*24:02	*27:05:02	*39:06:02	*02:02:02	*07:02:01	SBT
3632	Colombe,Beth	*02	*24	*27	*39	*02	*07	*02:02	*24:02	*27:05	*39:06	*02:02	*07:02	SSO,SSP
779	Daniel,Claud	*02	*24	*27	*39	*02	*07							SSO,SSP
3766	Dunn,Paul	*02	*24	*27	*39	*02	*07							SSO
5214	Eckels/CPMC	*02	*24	*27	*39	*02	*07							SSO
762	Fischer,Gottfried							*02:02	*24:02	*27:05/13	*39:06	*02:02	*07:02/50	SSO,SSP,SBT
4079	Fort,Marylise	NT						NT						SSP
3545	Goldstein,Steven							*02:02	*24:02	*27:05/13	*39:06	*02:02	*07:02/50/349	SSO,SBT
810	Hamdi,Nuha							*02:02/115/155+	*24:02/02Q/09N+			*02:02/07/08+	*07:02/76/305	SSO
8043	Hod,Reut	*02	*24	*27	*39	*02	*07	*02:02	*24:02	*27:05	*39:06	*02:02	*07:02	SSO,SSP
771	Israel,Shoshana	*02	*24	*27	*39	*02	*07	*02:02	*24:02:01G	*27:05:02G	*39:06	*02:02:02G	*07:02:01G	SBT
725	Lardy,N.M.	*02	*24	*27	*39	*02	*07							SSO
745	Latham, Katy							*02:02	*24:02	*27:05/13	*39:06:02	*02:02:02	*07:02:01	SSO,SSP,SBT
278	Lee,Jar-How	*02	*24	*27	*39	*02	*07	*02:02	*24:02:01	*27:05	*39:06:02	*02:02:02	*07:02:01	
6649	Lim,Young Ae	*02	*24	*27	*39									SSP
731	Loewenthal,R							*02:02	*24:02	*27:05	*39:06:01	*02:02:02	*07:02	SSO,SBT
759	Lopez-Cepero							*02:02/115/155+	*24:02/09N/11N+	*27:03/05/13+	*39:06/24/28+	*02:02/07/08+	*07:02/13/23+	SSO
54	Pancoska,Carol	*02	*24	*27	*39	*02	*07							SSO
8001	Rao,Prakash	*02	*24	*27	*39	*02	*07							SSO
3625	Rees,Tracey	*02	*24	*27	*39	*02	*07	*02:02	*24:02	*27:05	*39:06	*02:02	*07:02	SSP,SBT
1160	Rosen-Bronson	*02	*24	*27	*39	*02	*07							SSO
793	Rubocki,Ronald	*02	*24	*27	*39	*02	*07							SSP
4251	Schiller,Jennifer							*02:02	*24:02	*27:05:02G	*39:06	*02:02	*07:02:01G	SSO,SBT
3808	Thornton,Alycia	*02	*24	*27	*39	*02	*07							SSP
747	Tiercy,Jean-Marie	NT						NT						SSO,SSP,SBT
5642	Varnavidou-Nico	*02	*24	*27	*39	*02	*07							SSP
3186	Watson,Narelle	*02	*24	*27	*39	*02	*07							SSO

Table 15. Individual laboratory results for Cell #1537-1540 by serology

Investigator	Days Old	Cell No 1537 (Hispanic)										Cell No 1538 (Mixed)							Cell No 1539 (Caucasian)							Cell No 1540 (Hispanic)														
		Viab %	A1	A3	B7	B27	Cw2	Cw7	Bw4	Bw6	OTHERS	Viab %	A11	A26	B18	B27	Cw6	Cw7	Bw4	Bw6	OTHERS	Viab %	A11	A26	B14	B27	Cw2	Cw8	Bw4	Bw6	OTHERS	Viab %	A2	A24	B27	B39	Cw2	Cw7	Bw4	Bw6
Askar, Medhat	2	95	+	+	+	+	+	+	+	+	B27V	90	+	+	+	+	+	+	+		90	+	+	B64	+	+		+	+		90	+	+	+	+	+	+	+	+	B16V
Bengochea, Ca	3	80	+	+	+							80		+		+						100	+	+	+	+				100		+	+							
Cecka, J. Mic		95	+	+	+	+				+	+	95	+	+	+	+		+	+		95	+	+	B64	+			+	+		95	+	+	+	+			+	+	
Charron, Domi		98	+	+	+							98	+	+	+	+				A66>	100	+	+	+	+				A66>	100	+	+	+	+					B16	
Claas, F.H.J.	7	90	+	+	+	+	+			+	+	90	+	+	+	+		+	+	Cw2	70	+	+	+	+	+		+	+		70	+	+	+	+	+		+	+	
Dunn, Paul	6	99	+	+	+	+	+	+				99	+	+	+	+	+				99	+	+	B64	+	+	+				99	+	+	+	+	+	+			
Enczmann, J			+	+	+	+							+	+	+	+						+	+	B64	+						+	+	+	+						
Fort, Marylis	3	80	+	+	+	+				+	+	90	+	+	+	+			+	+		90																		
Hahn, Amy B.		99	+	+	+	+	+	+	+	+		99	+	+	+	+		+	+		99	+	+	+	+			+	+		99	+	+	+	+	+	+	+	+	
Kvam, Vonnett	3	97	+	+	+	+	+	+	+	+		97	+	+	+	+		+	+	Cw2	97	+	+	B64	+	+	+	+	+		97	+	+	+	+	+	+	+	+	
Latham, Katy		80	+	+	+	+						80	+	+	+	+					80	+	+	+	+					85	+	+	+	+						
McCoy, Heathe	3	98	+	+	+	+	+	+	+	+		98	+	+	+	+		+	+		98	+	+	B64	+	+	+	+	+		98	+	+	+	+	+	+	+	+	
Pancoska, Car	2	97	+	+	+	+	+	+	+	+		98	+	+	+	+		+	+		97	+	+	B64	+	+	+	+	+		98	+	+	+	+		+	+	+	
Permpikul, Ve	7	85	+	+	+	+				+	+	85	A11.1	+	+	+		+	+		80	A11.1	+	+	+			+	+		85	+	+	+	+		+	+	+	
Rees, Tracey	3	90	+	+	+	+	+	+	+	+		90	+	+	+	+	+	+	+		90	+	+	B64	+	+	+	+	+		90	+	+	+	+	+	+	+	+	
Renac, Virgin	3	99	+	+	+	+				+	+	99	+	A10	+	+		+	+		99	+	A10	+	+			+	+		99	+	+	+	+		+	+	+	
Rosen-Bronson	2	90	+	+	+	+	+	+	+	+		90	+	+	+	+	+	+	+		90	+	+	B64	+	+	+	+	+		90	+	+	+	+	+	+	+	+	
Rubocki, Rona	2	98	+	+	+	+	+	+	+	+		98	+	+	+	+		+	+	Cw2	98	+	+	B64	+	+	+	+	+		98	+	+	+	+	+	+	+	+	
Shai, Isaac	8	88	+	+	+	+	+	+	+	+	B81>	94	+	+	+	+		+	+	Cw2>	96	+	+	+	+	+	+	+	Cw5	96	+	+	+	+	+	+	+	+	Cw5>	
Thornton, Aly		90	+	+	+	+	+	+	+	+		90	+	+	+	+		+	+		90	+	+	B64	+	+	+	+	+		90	+	+	+	+	+	+	+	+	
Tiercy, Jean-		90	+	+	+	+				+	+	90	+	+	+	+		+	+																					
Varnavidou-Ni	6	98	+	+	+	+				+	+	97	+	+	+	+		+	+		97	+	+	+	+			+	+		98	+	+	+	+		+	+	+	
Vidan-Jeras,	6	75	+	+	+	+	+	+				76	+	+	+	+	+				76	+	+	+	+	+	+			78	+	+	+	+	+	+				
Watson, Narel	9	90	+	+	+	+				+	+	90	+	+	+	+		+	+		90	+	+	B64	+			+	+		90	+	+	+	+		+	+	+	+

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