

REPORT OF THE 377th CELL EXCHANGE
NOVEMBER 6, 2013

DNA Extract	593-596
Cells	1505-1508
Serum	1133-1136

DNA Extract Exchange #149

The results for DNA Extract Exchange #149 are summarized in Table 1 and individual laboratory results reported for each DNA sample are listed in Tables 2- 5.

We would like to express our gratitude to **Helen Bass, Jane Rowlands, and Tracy Rees, Welsh Blood Service, Pontyclun**, for generously providing us the reference cells examined in our Exchanges.

Extract 593. The consensus type for this Caucasian sample is A*01:01-A*02:24-B*07:02-B*37:01-C*06:02-C*07:02. One likely haplotype in this cell is A*01:01-B*37:01-C*06:02, with HF=0.00818 in Caucasians. The other probable haplotype, A*02:24-B*07:02-C*07:02, is listed in the NMDP Bioinformatics website as exclusively observed in Caucasians, with HF=0.00019. This rare haplotype is also present in RP122, one of the reference cell for A*02:24:01.

This cell is 13041452, a reference cell for A*02:24:01. It was previously typed as extracts 506 (2011) and 257 (2003). In this present retyping, A*02:24 was assigned by 58% compared to 61% in 2011. Five labs assigned A*02:24:01. A*02:24 is described as differing from A*02:01 in exon 3 by a single nucleotide substitution at position 453 (A to C), which results in an amino acid change from lysine to asparagine at codon 127 (1). A*01:01 was reported by 52%, an increase from the 39% detection level in 2011. A*01:01/01N was assigned by 4 labs. The assignment of B*07:02 also increased, from a detection level of 23% in 2011 to 31% in this retyping.

Extract 594. The consensus type for this Caucasian sample is A*02:01-B*07:03-B*44:02-C*03:04-C*05:01. One likely haplotype in this cell is A*02:01-B*44:02-C*05:01, observed across all populations, with HF=0.5370, in Caucasians. The other likely haplotype is A*02:01-B*07:03-C*03:04, as observed in BPot (2), one of the reference cells for B*07:03.

This cell is 1156492+ (same as 28144), a reference cell for B*07:03. It was previously typed as extract 437 (2008). The assignment of B*07:03 by 72% in this present study was similar to its assignment in 2008, in which 73% of labs reported B*07:03. The assignment of C*03:04 and C*05:01 increased from 47% and 37%, respectively in 2009, to 62% in this present typing. A*02:01 (51%) was assigned as the sole A-locus allele. Five labs reported A*02:01/01L.

Extract 595. There was no consensus achieved for this sample, as it was found to be contaminated with another cell. We apologize for any inconvenienced caused.

Extract 596. The consensus type for this Black sample is A*24:02-A*68:02-B*51:01-B*81:01-C*15:02-C*18:01. The likely haplotypes in this cell are A*24:02-B*51:01-C*15:02 and A*68:02-B*81:01-C*18:01, with respective frequencies of HF=0.00042 and 0.00165, in African American populations.

This sample was previously typed several times in the Exchange as cells 1461 (2012), 1354 (2009), and 1295 (2007). In this present retyping, the assignment of B*81:01 decreased from 44% in 2012 to 37%. Eleven labs were unable to resolve B*81:01 from B*81:02, which may explain the decline in the assignment of B*81:01 in this retyping.

Table 1. Summary of the 149th DNA Extract Exchange (Extract#583-596)

Extract 593		Extract 594		Extract 595		Extract 596	
36 labs	% (n)	36 labs	% (n)	36 labs	% (n)	36 labs	% (n)
A*01:01:01:01	8 (3)	A*02:01:01:01	3 (1)	<i>Contaminated</i>		A*24:02:01G	6 (2)
A*01:01:01G	8 (3)	A*02:01:01G	6 (2)			A*24:02	47(17)
A*01:01	36(13)	A*02:01:01	6 (2)			A*24:02+	14(5)
A*01:01/01N	11(4)	A*02:01	36(13)			A*24	33(12)
A*01:01+	3 (1)	A*02:01/01L	14(5)				
A*01	33(12)	A*02:01+	3 (1)				
		A*02	33(12)				
A*02:24:01	14(5)					A*68:02:01:01	3 (1)
A*02:24	44(16)					A*68:02:01	6 (2)
A*02:04	3 (1)					A*68:02:01G	3 (1)
A*02:01+	6 (2)					A*68:02P	3 (1)
A*02	33(12)					A*68:02	42(15)
						A*68:02+	11(4)
						A*68	33(12)
36 labs	% (n)	36 labs	% (n)	36 labs	% (n)	36 labs	% (n)
B*07:02:01	6 (2)	B*07:03	72(26)			B*51:01:01G	6 (2)
B*07:02:01G	8 (3)	B*07	28(10)			B*51:01:01	8 (3)
B*07:02	17(6)					B*51:01	50(18)
B*07:02+	36(13)					B*51:01+	3 (1)
B*07	33(12)					B*51	33(12)
B*37:01:01	11(4)	B*44:02:01:01	3 (1)			B*81:01:01G	6 (2)
B*37:01:01G	3 (1)	B*44:02:01G	8 (3)			B*81:01P	6 (2)
B*37:01P	3 (1)	B*44:02	25(9)			B*81:01	25(9)
B*37:01	47(17)	B*44:02+	31(11)			B*81:01/02	31(11)
B*37:01+	3 (1)	B*44	33(12)			B*81	33(12)
B*37	33(12)						
34 labs	% (n)	34 labs	% (n)	34 labs	% (n)	34 labs	% (n)
C*06:02:01:01	3 (1)	C*03:04:01G	3 (1)			C*15:02:01	12(4)
C*06:02:01G	9 (3)	C*03:04P	3 (1)			C*15:02:01G	3 (1)
C*06:02:01	3 (1)	C*03:04	56(19)			C*15:02P	3 (1)
C*06:02	27(9)	C*03:04+	6 (2)			C*15:02	50(17)
C*06:02+	27(9)	C*03	32(11)			C*15:02+	3 (1)
C*06	32(11)					C*15	29(10)
C*07:02:01	6 (2)	C*05:01:01G	3 (1)			C*18:01:01G	6 (2)
C*07:02:01G	6 (2)	C*05:01P	3 (1)			C*18:01P	3 (1)
C*07:02P	3 (1)	C*05:01	56(19)			C*18:01	29(10)
C*07:02	18(6)	C*05:01+	6 (2)			C*18:01+	31(11)
C*07:02/50	21(7)	C*05	32(11)			C*18	29(10)
C*07:02+	12(4)						
C*07	33(11)						

Table 2. Individual laboratory results for DNA Extract #593

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
5488	Adams, Sharon	*01:01:01:01	*02:24:01	*07:02:01/61/161N	*37:01:01	*06	*07	RSSO, SBT
4691	Ajlan, Abdulaziz	*01	*02	*07	*37	*06	*07	SSO
2332	Al-Aw w ami, Mo	*01	*02	*07	*37	*06	*07	SSO
4345	Blasczyk, Rainer	*01:01:01G	*02:24:01	*07:02:01G	*37:01P	*06:02:01G	*07:02P	SBT
8038	Cao, Kai	*01:01:01+	*02:24:01	*07:02/61/161N	*37:01:01	*06:02/83	*07:02/50	SSO, SBT
9916	Charlton, Ron	*01:01:01:01	*02:24:01	*07:02:01	*37:01:01	*06:02:01:01	*07:02:01	SBT
3224	Chen, Dongfen	*01:01/01N	*02:04	*07:02/61/161N	*37:01	*06:02	*07:02/50	SBT
8021	Clark, Brenda	*01:01+	*02:01+	*07:02+	*37:01+	*06:02+	*07:02+	PCR-SSP, RSSO
5219	Daniel, Dolly	*01	*02	*07	*37			PCR-SSO
5323	Dhaliw al, J.S	*01	*02	*07	*37	*06	*07	PCR-SSP, SSO
5891	Du, Keming	*01:01	*02:24	*07:02/61/161N	*37:01	*06:02/04/11+	*07:02/50/138+	PCR-SBT
3766	Dunn, Paul	*01	*02	*07	*37	*06	*07	PCR-SSO
3135	Enczmann, J.	*01:01	*02:24	*07:02	*37:01	*06:02	*07:02	SBT, SSO, SSP
762	Fischer, Gottfried	*01:01	*02:24	*07:02/161N/61	*37:01	*06:02	*07:02/50	SBT, SSO, SSP
8022	Hedlund, Anna	*01:01	*02:24	*07:02	*37:01	*06:02	*07:02	SSP
13	Hermes, Mark	*01:01	*02:24/94N	*07:02	*37:01	*06:02	*07:02	SSP
745	Holman, Richard	*01:01:01:01	*02:24	*07:02:01	*37:01:01	*06:02:01	*07:02:01	SSO, SSP, SBT
2344	Hurley&Hartzman	*01:01:01G	*02:24:01	*07:02:01G	*37:01:01G	*06:02:01G	*07:02:01G	SBT
794	Jaatinen, Taina	*01:01	*02:24	*07:02/61	*37:01	*06:02	*07:02/50	SBT, SSO, SSP
87	Land, Geoffrey	*01:01	*02:24	*07:02	*37:01	*06:02	*07:02	SBT, SSO, SSP
278	Lee, Jar-How	*01:01	*02:24	*07:02	*37:01	*06:02	*07:02	SSP, RSSO
5096	Lee, Sun-Ah	*01	*02	*07	*37			SSO
640	Lee, Young Kyu	*01:01	*02:24	*07:02/61/161N	*37:01	*06:02/83	*07:02/50	PCR-SBT
2847	Masaki, Kihara	*01	*02	*07	*37	*06	*07	RSSO
8042	Muncher, Liora	*01:01	*02:24	*07:02	*37:01	*06:02	*07:02	SSO, SSP
9001	Muncher_LR	*01	*02	*07	*37	*06	*07	SSO
54	Pancoska, Carol	*01	*02	*07	*37	*06	*07	RSSO
3966	Permpikul&Vejba	*01	*02	*07	*37	*06	*07	PCR-SSP
2400	Phelan, Donna	*01:01/01N	*02:24	*07:02/61/161N	*37:01	*06:02/83	*07:02/50	RSSO, SBT, SSP
3753	Reed, Elaine	*01:01	*02:24	*07:02/61/161N	*37:01	*06:02/04/11+	*07:02/27/50+	SBT
4251	Schiller, Jennifer	*01:01:01G	*02:24	*07:02:01G	*37:01	*06:02:01G	*07:02:01G	PCR-RSSO, SBT
3545	Scornik, Juan	*01:01/01N	*02:24	*07:02/61/161N	*37:01	*06:02/83	*07:02/50	SSO, SBT
1108	Sutherland, Leslie	*01	*02	*07	*37	*06	*07	RSSO
4021	Trachtenberg, E	*01	*02	*07	*37	*06	*07	SSO, SSP
5462	Turner, E.V.	*01:01	*02:24	*07:02/61/161N	*37:01	*06:02/11	*07:02/76	SBT, SSO, SSP
797	Yabe, Hiromasa	*01:01/01N	*02:24	*07:02/61	*37:01	*06:02/11	*07:02/50/76	SBT, SSO

Table 3. Individual laboratory results for DNA Extract #594

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
5488	Adams, Sharon	*02:01:01		*07:03	*44:02/19N	*03	*05	RSSO, SBT
4691	Ajlan, Abdulaziz	*02	*02	*07	*44	*03	*05	SSO
2332	Al-Aw w ami, Mo	*02	*02	*07	*44	*03	*05	SSO
4345	Blasczyk, Rainer	*02:01:01G		*07:03	*44:02:01G	*03:04P	*05:01P	SBT
8038	Cao, Kai	*02:01:01		*07:03	*44:02	*03:04	*05:01	SSO, SBT
9916	Charlton, Ron	*02:01:01:01		*07:03	*44:02:01:01	*03:04	*05:01	SBT
3224	Chen, Dongfen	*02:01		*07:03	*44:02	*03:04	*05:01	SBT
8021	Clark, Brenda	*02:01+		*07:03	*44:02+	*03:04+	*05:01+	PCR-SSP, RSSO
5219	Daniel, Dolly	*02	*02	*07	*44			PCR-SSO
5323	Dhaliw al, J.S	*02		*07	*44	*03	*05	PCR-SSP
5891	Du, Keming	*02:01	*02:01	*07:03	*44:02/19N	*03:04	*05:01	PCR-SBT
3766	Dunn, Paul	*02		*07:03	*44	*03	*05	PCR-SSO
3135	Enczmann, J.	*02:01/01L		*07:03	*44:02/02S/19N	*03:04	*05:01	SBT, SSO, SSP
762	Fischer, Gottfried	*02:01/01L		*07:03	*44:02/02S/19N	*03:04	*05:01	SBT, SSO, SSP
8022	Hedlund, Anna	*02:01		*07:03	*44:02	*03:04	*05:01	SSP
13	Hermes, Mark	*02:01		*07:03	*44:02	*03:04	*05:01	SSP
745	Holman, Richard	*02:01/01L		*07:03	*44:02/02S	*03:04	*05:01	SSO, SSP, SBT
2344	Hurley&Hartzman	*02:01:01G	*02:01:01G	*07:03	*44:02:01G	*03:04:01G	*05:01:01G	SBT
794	Jaatinen, Taina	*02:01		*07:03	*44:02	*03:04	*05:01	SBT, SSO, SSP
87	Land, Geoffrey	*02:01	*02:01	*07:03	*44:02	*03:04	*05:01	SBT, SSO, SSP
278	Lee, Jar-How	*02:01		*07:03	*44:02	*03:04	*05:01	SSP, RSSO
5096	Lee, Sun-Ah	*02	*02	*07	*44			SSO
640	Lee, Young Kyu	*02:01		*07:03	*44:02/19N	*03:04	*05:01	PCR-SBT
2847	Masaki, Kihara	*02		*07	*44	*03	*05	RSSO
8042	Muncher, Liora	*02:01		*07:03	*44:02	*03:04	*05:01	SSO, SSP
9001	Muncher_LR	*02		*07	*44	*03	*05	SSO
54	Pancoska, Carol	*02		*07:03	*44	*03	*05	RSSO
3966	Permpikul&Vejba	*02		*07	*44	*03	*05	PCR-SSP
2400	Phelan, Donna	*02:01		*07:03	*44:02/19N	*03:04	*05:01	RSSO, SSP, SBT
3753	Reed, Elaine	*02:01	*02:01	*07:03	*44:02/19N	*03:04/07/09+	*05:01/05/10+	SBT
4251	Schiller, Jennifer	*02:01	*02:01	*07:03	*44:02:01G	*03:04	*05:01	PCR-RSSO, SBT
3545	Scornik, Juan	*02:01/01L		*07:03	*44:02/19N	*03:04	*05:01	SSO, SBT
1108	Sutherland, Leslie	*02	*02	*07	*44	*03	*05	RSSO
4021	Trachtenberg, E	*02		*07	*44	*03	*05	SSO, SSP
5462	Turner, E.V.	*02:01		*07:03	*44:02	*03:04	*05:01	SSO, SBT, SSP
797	Yabe, Hiromasa	*02:01/01L		*07:03	*44:02/02S	*03:04	*05:01	SSO, SBT

Table 4. Individual laboratory results for DNA Extract #595

Center	Investigator	HLA-A	HLA-B	HLA-C	Method
NT - Contaminated					

Table 5. Individual laboratory results for DNA Extract #596

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
5488	Adams, Sharon	*24:02/07	*68:02:01/31	*51:01:01	*81:01/02	*15:02:01	*18:01/02	RSSO, SBT
4691	Ajlan, Abdulaziz	*24	*68	*51	*81	*15	*18	SSO
2332	Al-Aw w ami, Mo	*24	*68	*51	*81	*15	*18	SSO
4345	Blasczyk, Rainer	*24:02:01G	*68:02P	*51:01:01G	*81:01P	*15:02P	*18:01P	SBT
8038	Cao, Kai	*24:02	*68:02:01	*51:01:01	*81:01/02	*15:02:01	*18:01/02	SSO, SBT
9916	Charlton, Ron	*24:02	*68:02:01:01	*51:01	*81:01	*15:02:01	*18:01	SBT
3224	Chen, Dongfen	*24:02	*68:02	*51:01	*81:01	*15:02	*18:01/02	SBT
8021	Clark, Brenda	*24:02+	*68:02+	*51:01+	*81:01+	*15:02+	*18:01+	PCR-SSP, RSSO
5219	Daniel, Dolly	*24	*68	*51	*81			PCR-SSO
5323	Dhaliw al, J.S	*24	*68	*51	*81	*15	*18	PCR-SSP, SSO
5891	Du, Keming	*24:02/07	*68:02/31	*51:01	*81:01/02	*15:02	*18:01/02	PCR-SBT
3766	Dunn, Paul	*24	*68	*51	*81	*15	*18	PCR-SSO
3135	Enczmann, J.	*24:02	*68:02	*51:01	*81:01	*15:02	*18:01	SBT, SSO, SSP
762	Fischer, Gottfried	*24:02	*68:02	*51:01	*81:01	*15:02	*18:01/02	SBT, SSO, SSP
8022	Hedlund, Anna	*24:02	*68:02	*51:01	*81:01	*15:02	*18:01	SSP
13	Hermes, Mark	*24:02	*68:02	*51:01	*81:01	*15:02	*18:01	SSP
745	Holman, Richard	*24:02	*68:02:01	*51:01:01	*81:01/02	*15:02:01	*18:01	SSO, SSP, SBT
2344	Hurley&Hartzman	*24:02:01G	*68:02:01G	*51:01:01G	*81:01:01G	*15:02:01G	*18:01:01G	SBT
794	Jaatinen, Taina	*24:02	*68:02	*51:01	*81:01/02	*15:02	*18:01	SBT, SSO, SSP
87	Land, Geoffrey	*24:02	*68:02	*51:01	*81:01	*15:02	*18:01	SBT, SSO, SSP
278	Lee, Jar-How	*24:02	*68:02	*51:01	*81:01	*15:02	*18:01	SSP, RSSO
5096	Lee, Sun-Ah	*24	*68	*51	*81			SSO
640	Lee, Young Kyu	*24:02	*68:02	*51:01	*81:01/02	*15:02	*18:01/02	PCR-SBT
2847	Masaki, Kihara	*24	*68	*51	*81	*15	*18	RSSO
8042	Muncher, Liora	*24:02	*68:02	*51:01	*81	*15:02	*18:01	SSO, SSP
9001	Muncher_LR	*24	*68	*51	*81	*15	*18	SSO
54	Pancoska, Carol	*24	*68	*51	*81	*15	*18	RSSO
3966	Permpikul&Vejsa	*24	*68	*51	*81:01	*15	*18	PCR-SSP
2400	Phelan, Donna	*24:02	*68:02	*51:01	*81:01/02	*15:02	*18:01/02	RSSO, SSP, SBT
3753	Reed, Elaine	*24:02/07	*68:02/31	*51:01	*81:01/02	*15:02	*18:01/02	SBT
4251	Schiller, Jennifer	*24:02	*68:02	*51:01	*81:01:01G	*15:02	*18:01:01G	PCR-RSSO, SBT
3545	Scornik, Juan	*24:02/02L	*68:02	*51:01	*81:01/02	*15:02	*18:01/02	SSO, SBT
1108	Sutherland, Leslie	*24	*68	*51	*81	*15	*18	RSSO
4021	Trachtenberg, E	*24	*68	*51	*81	*15	*18	SSO, SSP
5462	Turner, E.V.	*24:02	*68:02	*51:01	*81:01P	*15:02	*18:01	SBT, SSO, SSP
797	Yabe, Hiromasa	*24:02	*68:02	*51:01	*81:01/02	*15:02	*18:01/02	SSO, SBT

Cell Exchange #377

The results for Cell Exchange #377 are summarized in Table 6 and Table 7. Individual laboratory DNA results for each sample are listed in Tables 8-11

and serology results are listed in Table 12.

Cell 1505. The consensus type for this Caucasian sample is A*02:01(A2)-A*24:03(A24)-B*07:02(B7)-B*40:01(B60)-C*03:04(Cw3)-C*07:02(Cw7). From family studies, the haplotypes in this samples are determined to be A*02:01-B*07:02-C*07:02 and A*24:03-B*40:01-C*03:04. B*07:02-C*07:02 is the most common association in Caucasians, with HF=0.13782.

This sample was previously typed as cell 1449 (2012), as correctly identified by Claas, Lopez-Cepero, Mah, Pancoska, and Tiercy. In this present retyping, the A24 variant, A2403, was assigned by 30%, while A*24:03 was assigned by 51% of the DNA labs. Five labs assigned A*24:03:01. B60 was reported as the B40 split and confirmed as B*40:01 (49%).

Cell 1506. The consensus type for this Hispanic sample is A*02:01(A2)-A*02:06(A2)-B*27:05(B27)-B*40:08(B40)-C*01:02(Cw1)-C*03:04(Cw3). This cell is the sibling of cell 1447 (same as 1421). From family studies, the haplotypes in this cell are A*02:01/06-B*40:08-C*03:04 and A*02:01/06-B*27:05-C*01:02. The B*40:08-C*03:04 association in this cell is exclusively observed in Hispanics with HF=0.00552.

This sample was previously studied as cells 1445 (2011) and 1428 (2011), as noted by Askar, Claas, Lopez-Cepero, Mah, Pancoska, Rees, and Tiercy. As with the 2011 typing, a number of labs commented on the presence of the B40 variant, B4008. B40 (42%), B40V (12%), B61 (12%), and B4008 (6%) were assigned by serology as possible types. B*40:08 (72%) was assigned by DNA.

Cell 1507. The consensus type for this Filipino sample is A*02:01(A2)-A*11:01(A11)-B*07:06(B7)-B*49:01(B49)-C*07:01(Cw7)-C*07:02(Cw7). One likely association in this cell is B*07:06-C*07:02, as observed in previous Exchange samples, cells 1162 (same as 1079), 1183, and 1497, all from Filipino donors. The other probable association is B*49:01-C*07:01, with HF=0.00114 in Asians.

This cell was previously typed as cell 1409 (2010). In this present retyping, B7 was well detected by 97% and confirmed as B*07:06 (34%). Cw7 was detected by 59%, with DNA reporting the presence of 2 different C*07 alleles, C*07:01 (38%) and C*07:02 (37%).

Cell 1508. The consensus type for this Filipino sample is A*11:01(A11)-A*24:02(A24)-B*40:06(B61)-B*44:03(B44)-C*07:06(Cw7)-C*08:01(Cw8). One likely association in this cell is B*40:06-C*08:01, observed exclusively in Asians, with HF=0.01335. The other likely association in this cell is B*44:03-C*07:06, as observed in previous Exchange cells 1006, 1143, and 1332.

B61 (75%) was reported as the B40 split and confirmed as B*40:06 (47%). Cw7 and Cw8 were assigned by 59% and 31%, respectively, and confirmed as C*07:06 (34%) and C*08:01 (36%).

Table 6. Summary of the 377th Cell Exchange (Cell#1505-1506)

DNA typing							
Cell 1505		Cell 1506		Cell 1507		Cell 1508	
<u>43 labs</u>	% (n)	<u>43 labs</u>	% (n)	<u>41 labs</u>	% (n)	<u>41 labs</u>	% (n)
A*02:01:01	9 (4)	A*02:01:01	9 (4)	A*02:01	34(14)	A*11:01:01	2 (1)
A*02:01	35(15)	A*02:01	30(13)	A*02:01+	12(5)	A*11:01	32(13)
A*02:01+	9 (4)	A*02:01+	14(6)	A*02	54(22)	A*11:12	2 (1)
A*02	47(20)	A*02	47(20)			A*11:01+	15(6)
						A*11	49(20)
A*24:03:01	12(5)	A*02:06:01	12(5)	A*11:01:01	2 (1)	A*24:02:01	2 (1)
A*24:03	39(17)	A*02:06	30(13)	A*11:01	32(13)	A*24:02	34(14)
A*24:03+	7 (3)	A*02:99	2 (1)	A*11:12	2 (1)	A*24:02+	12 (5)
A*24	42(18)	A*02:06+	14(6)	A*11:01+	12(5)	A*24	52(21)
		A*02	42(18)	A*11	51(21)		
<u>43 labs</u>	% (n)	<u>43 labs</u>	% (n)	<u>41 labs</u>	% (n)	<u>41 labs</u>	% (n)
B*07:02:01	5 (2)	B*27:05:02	5 (2)	*07:05:01G	3 (1)	B*40:06:01	5 (2)
B*07:02:01G	2 (1)	B*27:05:02G	2 (1)	*07:05P	3 (1)	B*40:06	42(17)
B*07:02	28(12)	B*27:05P	2 (1)	*07:06	34(14)	B*40:04+	19(8)
B*07:02+	23(10)	B*27:05	28(12)	*07:05	2 (1)	B*40 (B61)	10(4)
B*07	42(18)	B*27:05+	16(7)	*07:05+	12(5)	B*40	24(10)
		B*27	47(20)	*07	46(19)		
B*40:01:02	5 (2)	B*40:08	72(31)	B*49:01:01	3 (1)	B*44:03:02	7 (3)
B*40:01	44(19)	B*40:08+	5 (2)	B*49:01	44(18)	B*44:03	39(16)
B*40:69	2 (1)	B*40 (B61)	5 (2)	B*49:01+	7 (3)	B*44:43	2 (1)
B*40:01+	14(6)	B*40	18(8)	B*49	46(19)	B*44:03+	10(4)
B*40 (B60)	9 (4)					B*44	42(17)
B*40	26(11)						
<u>43 labs</u>	% (n)	<u>43 labs</u>	% (n)	<u>41 labs</u>	% (n)	<u>41 labs</u>	% (n)
C*03:04:01	5(2)	C*01:02:01	5 (2)	C*07:01:01:01	2 (1)	C*07:01:01G	2 (1)
C*03:04	37(16)	C*01:02	42(18)	C*07:01:01	2 (1)	C*07:06	34(14)
C*03:87	2 (1)	C*01:12	2 (1)	C*07:01:01G	2 (1)	C*07:01	5 (2)
C*03:04+	12(5)	C*01:02+	7 (3)	C*07:01	32(13)	C*07:01+	10(4)
C*03 (Cw 10)	9 (4)	C*01	44(19)	C*07:01+	15(6)	C*07	49(20)
C*03	35(15)			C*07	47(19)		
C*07:02:01G	2 (1)	C*03:04:01	5 (2)	C*07:02:01	5 (2)	C*08:01:01	5 (2)
C*07:02:01	5 (2)	C*03:04	44(19)	C*07:02:01G	3 (1)	C*08:01:01G	2 (1)
C*07:02	33(14)	C*03:90	2 (1)	C*07:02	29(12)	C*08:01	29(12)
C*07:02+	12(5)	C*03:04+	12(5)	C*07:02+	17(7)	C*08:01+	10(4)
C*07	49(21)	C*03 (Cw 10)	9 (4)	C*07	46(19)	C*08	51(21)
		C*03	28(12)			C*07	2(1)

Table 7: Summary of the 377th Cell Exchange (Cell #1505-1508)

(Caucasian)	
Cell 1505	
(33 Samples Typed)	
A2	100.0%
	[100.0%]
A24	66.7%
A2403	30.3%
	[97.0%]
B7	100.0%
	[100.0%]
B60	90.9%
B40	9.1%
	[100.0%]
CW3	54.5%
CW10	6.1%
	[60.6%]
CW7	57.6%
BW6	84.8%
Others Found	
BW4	3.0%

(Hispanic)	
Cell 1506	
(33 Samples Typed)	
A2	100.0%
	[100.0%]
B27	97.0%
	[97.0%]
B40	42.4%
B40V	12.1%
B61	12.1%
B4008	6.1%
	[72.7%]
CW1	60.6%
CW3	54.5%
CW10	6.1%
	[60.6%]
BW4	84.8%
BW6	81.8%
Others Found	
A28	3.0%
B81	3.0%
B7	3.0%
B48	3.0%

(Filipino)	
Cell 1507	
(32 Samples Typed)	
A2	100.0%
	[100.0%]
A11	96.9%
A11.1	3.1%
	[100.0%]
B7	96.9%
	[96.9%]
B49	96.9%
B21	3.1%
	[100.0%]
CW7	59.4%
BW4	84.4%
BW6	84.4%
Others Found	
B81	3.1%

(Filipino)	
Cell 1508	
(32 Samples Typed)	
A11	96.9%
A11.1	3.1%
	[100.0%]
A24	100.0%
	[100.0%]
B61	75.0%
B40	18.8%
	[90.6%]
B44	100.0%
	[100.0%]
CW7	59.4%
CW8	31.2%
BW4	84.4%
BW6	84.4%
Others Found	
B60	9.4%
B48	3.1%
B49	3.1%

Table 8. Individual laboratory results for Cell #1505

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
16	Askar, Medhat	*02:01:01	*24:03:01	*07:02/61	*40:01	*03:04	*07:02	PCR-RSSO, SBT
774	Cecka, J. Michael	*02	*24:03/125	*07	*40	*03	*07	SSP
8070	Chang, Uckjin	*02	*24	*07	*40	*03	*07	SSP
4492	Charron, D.	*02:01/01L/97+	*24:03	*07:02/136/141+	*40:01/101/112+	*03:04/100+	*07:02/159+	PCR-SSO, SSP
798	Claas, F. H. J.	*02:01:01	*24:03:01	*07:02:01	*40:01:02	*03:04:01	*07:02:01	SBT
3632	Colombe, Beth	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	SSO, SSP
5130	Costeas, Paul	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	SSP, SSO
779	Daniel, Claud	*02	*24:03	*07	*40:01	*03:04	*07	PCR-SSP, SSO
3766	Dunn, Paul	*02	*24	*07	*40	*03	*07	SSO
5214	Eckels/CPMC	*02	*24	*07	*40 (B60)	*03 (CW10)	*07	SSO
762	Fischer, Gottfried	*02	*24	*07	*40	*03	*07	SSO, SSP
4079	Fort, Marylise	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	PCR-SSO, SSP
792	Gandhi, Manish	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	SSO, SSP
9002	Gideoni_LR	*02	*24	*07	*40	*03	*07	SSO, SSP
810	Hamdi, Nuha	*02:01/01L+	*24:02/03/23+	*07:02/10/21+	*40:01/22N/43+	*03:02/04/05+	*07:01/02/05+	SSO
4269	Hanau, Daniel	*02:01/01L	*24:03	*07:02	*40:01	*03:04	*07:02	RSSO, SBT, SSP
3808	Hogan, Patrick	*02	*24	*07:02/61/161N	*40:01	*03:04+	*07:02+	PCR-SSO, SSP
745	Holman, Richard	*02:01:01	*24:03:01	*07:02/26/48/61	*40:01/128/198	*03	*07	SSO, SSP, SBT
771	Israel, Shoshana	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	SBT, SSP
9003	Israel_LR	*02	*24	*07	*40	*03	*07	PCR-SSO
859	Kamoun, Malek	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	SBT, SSP
4337	Kim, Tai-Gyu	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	SBT, SSP
725	Lardy, N.M.	*02	*24	*07	*40	*03	*07	SSO, SSP
278	Lee, Jar-How	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	SSP, RSSO
6649	Lim, Young Ae	*02	*24	*07	*40 (B60)	*03	*07	SSP
274	Lo, Raymundo	*02	*24	*07	*40:69	*03:87	*07	SSO
731	Loewenthal, R	*02:01	*24:03:01	*07:02	*40:01	*03	*07:02	SSO
759	Lopez-Cepero	*02:01/07/09+	*24:03/23/33+	*07:02/05/10+	*40:01/22N/43+	*03:04/02/05+	*07:02/05/10+	RSSO
23	Mah, Helen	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	PCR-SSO
8029	Mani, Rama	*02	*24	*07	*40	*03	*07	SSO
8052	Marcos, Cintia Y	*02	*24	*07	*40	*03	*07	SSO
206	McAlack-Hanau	*02	*24	*07	*40	*03 (Cw 10)	*07	RSSO
54	Pancoska, Carol	*02	*24	*07	*40	*03	*07	RSSOP
8001	Rao, Prakash	*02	*24	*07	*40:01/22N/43	*03:02/04/05+	*07	RSSO
3625	Rees, Tracey	*02:01	*24:03	*07:02/61	*40:01	*03	*07	PCR-SSP, SBT
5200	Reinke, Dennis	*02	*24	*07	*40 (B60)	*03 (CW10)	*07	SSP
3519	Renac, Virgie	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	SBT
1160	Rosen-Bronson	*02:01	*24:03	*07:02/143/151+	*40:01/49/72+	*03	*07	RSSO, SSP, SBT
793	Rubocki, Ronald	*02	*24	*07	*40 (B60)	*03 (Cw 10)	*07	SSP
4251	Schiller, Jennifer	*02:01	*24:03	*07:02:01G	*40:01	*03:04	*07:02:01G	PCR-RSSO, SBT
747	Tiercy, Jean-Marie	*02:01:01	*24:03:01	*07:02:01	*40:01:02	*03:04:01	*07:02:01	SSO, SSP, SBT
5462	Turner, E.V.	*02:01	*24:03	*07:02/61/161N	*40:01	*03:04	*07:02	SBT, SSO, SSP
3186	Watson, Narelle	*02	*24	*07:02/61/161N	*40:01	*03:04	*07:02/50	SSO, SBT

Table 9. Individual laboratory results for Cell #1506

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
16	Askar,Medhat	*02:01:01	*02:06:01	*27:05/13	*40:08	*01:02	*03:04	PCR-RSSO,SBT
774	Cecka,J.Michael	*02	*02:06/278+	*27	*40:08/232	*01	*03	SSP
8070	Chang,Uckjin	*02		*27	*40	*01	*03	SSP
4492	Charron,D.	*02:01/01L+	*02:06/250	*27:05/80/84+	*40:08	*01:02/40/44+	*03:04/100+	PCR-SSO,SSP
798	Claas,F.H.J.	*02:01:01	*02:06:01	*27:05:02	*40:08	*01:02:01	*03:04:01	SBT
3632	Colombe,Beth	*02:01	*02:06	*27:05	*40:08	*01:02	*03:04	SSO,SSP
5130	Costeas,Paul	*02:01	*02:06	*27:05	*40:08	*01:02	*03:04	SSP,SSO
779	Daniel,Claud	*02	*02	*27	*40:08	*01	*03:04	PCR-SSP,SSO
3766	Dunn,Paul	*02:01+	*02:06+	*27	*40:08	*01	*03	SSO
5214	Eckels/CPMC	*02	*02	*27	*40:08	*01	*03 (CW10)	SSO
762	Fischer,Gottfried	*02		*27	*40	*01	*03	SSO,SSP
4079	Fort,Marylise	*02:01/407+	*02:06/404/405	*27:05	*40:08	*01:02	*03:04	PCR-SSO,SSP
792	Gandhi,Manish	*02:01	*02:06	*27:05	*40:08	*01:02	*03:04	SSO,SSP
9002	Gideoni_LR	*02		*27	*40	*01	*03	SSO,SSP
810	Hamdi,Nuha	*02:01/01L+	*02:06/10/21+	*27:03/05/13+	*40:08	*01:02/07/11+	*03:04/06/09+	SSO
4269	Hanau,Daniel	*02:01/01L	*02:06	*27:05/13	*40:08	*01:02	*03:04	RSSO,SBT,SSP
3808	Hogan,Patrick	*02		*27	*40:08/13/35+	*01	*03:04+	PCR-SSO,SSP
745	Holman,Richard	*02:01:01	*02:06:01	*27:05/13	*40:08	*01:02	*03:04	SSO,SSP,SBT
771	Israel,Shoshana	*02:01	*02:06	*27:05	*40:08	*01:02	*03:04	SBT,SSP
9003	Israel_LR	*02		*27	*40	*01	*03	PCR-SSO
859	Kamoun,Malek	*02:01	*02:06	*27:05	*40:08	*01:02	*03:04	SBT,SSP
4337	Kim,Tai-Gyu	*02:01	*02:06	*27:05	*40:08	*01:02	*03:04	SBT,SSP
725	Lardy,N.M.	*02		*27	*40	*01	*03	SSO,SSP
278	Lee,Jar-How	*02:01	*02:06	*27:05	*40:08	*01:02	*03:04	SSP,RSSO
6649	Lim,Young Ae	*02		*27	*40 (B61)	*01	*03	SSP
274	Lo,Raymundo	*02	*02:99	*27	*40:08	*01:12	*03:90	SSO
731	Loew enthal,R	*02:01	*02:06:01	*27:05	*40:08	*01:02	*03:04	SSO
759	Lopez-Cepero	*02:01/04/07+	*02:06/10/21+	*27:03/05/13+	*40:08	*01:02/07/11+	*03:04/06/09+	RSSO
23	Mah,Helen	*02:01	*02:06	*27:05	*40:08	*01:02	*03:04	PCR-SSO
8029	Mani,Rama	*02	*02	*27	*40	*01	*03	SSO
8052	Marcos,Cintia Y	*02	*02	*27	*40:08	*01	*03	SSO
206	McAlack-Hanau	*02	*02	*27	*40	*01	*03 (CW10)	RSSO
54	Pancoska,Carol	*02		*27	*40:08	*01	*03	RSSOP
8001	Rao,Prakash	*02		*27	*40:08	*01	*03:04/06/09+	RSSO
3625	Rees,Tracey	*02:01	*02:06	*27:05/13	*40:08	*01	*03	PCR-SSP,SBT
5200	Reinke,Dennis	*02		*27	*40 (B61)	*01	*03 (CW10)	SSP
3519	Renac,Virgie	*02:01	*02:06	*27:05	*40:08	*01:02	*03:04	SBT
1160	Rosen-Bronson	*02		*27:05	*40:08	*01:02	*03:04	RSSO,SSP,SBT
793	Rubocki,Ronald	*02		*27	*40	*01	*03 (CW10)	SSP
4251	Schiller,Jennifer	*02:01	*02:06	*27:05:02G	*40:08	*01:02	*03:04	PCR-RSSO,SBT
747	Tiercy,Jean-Marie	*02:01:01	*02:06:01	*27:05:02	*40:08	*01:02:01	*03:04:01	SSO,SSP,SBT
5462	Turner,E.V.	*02:01	*02:06	*27:05P	*40:08	*01:02	*03:04	SBT,SSO,SSP
3186	Watson,Narelle	*02	*02	*27	*40:08	*01:02	*03:04	SSO,SBT

Table 10. Individual laboratory results for Cell #1507

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
16	Askar,Medhat	*02:01	*11:01	*07:06	*49:01	*07:01:01	*07:02:01	PCR-RSSO,SBT
774	Cecka,J.Michael	*02	*11	*07	*49	*07		SSP
8070	Chang,Uckjin	*02	*11	*07	*49	*07		SSP
4492	Charron,D.	*02:01/01L/97+	*11:01/114/115N+	*07:06/176/182N	*49:01/23/25	*07:01/103/166+	*07:02/159/160+	PCR-SSO,SSP
798	Claas,F.H.J.	*02:01	*11:01	*07:06	*49:01:01	*07:01:01:01	*07:02:01	SBT
3632	Colombe,Beth	*02:01	*11:01	*07:06	*49:01	*07:01	*07:02	SSO,SSP
5130	Costeas,Paul	*02:01	*11:01	*07:06	*49:01	*07:01	*07:02	SSP,SSO
779	Daniel,Claud	*02	*11	*07	*49	*07	*07	PCR-SSP,SSO
3766	Dunn,Paul	*02	*11	*07:05+	*49	*07:01+	*07:02+	SSO
5214	Eckels/CPMC	*02	*11	*07	*49	*07	*07	SSO
762	Fischer,Gottfried	*02	*11	*07	*49	*07		SSO,SSP
4079	Fort,Marylise	*02:01/407+	*11:01/126	*07:06	*49:01	*07:01	*07:02	PCR-SSO,SSP
792	Gandhi,Manish	*02:01	*11:01	*07:06	*49:01	*07:01	*07:02	SSO,SSP
9002	Gideoni_LR	*02	*11	*07	*49	*07		SSO,SSP
810	Hamdi,Nuha	*02:01/01L/01Q+	*11:01/02/03+	*07:05/06/90+	*49:01/06/12+	*07:01/05/06+	*07:02/13/19+	SSO
4269	Hanau,Daniel	NT						RSSO,SBT,SSP
3808	Hogan,Patrick	*02	*11	*07	*49	*07:01+	*07:02+	PCR-SSO,SSP
745	Holman,Richard	*02	*11	*07:06	*49:01	*07		SSO,SSP,SBT
771	Israel,Shoshana	*02:01	*11:01	*07:06	*49:01	*07:01	*07:02	SBT,SSP
9003	Israel_LR	*02	*11	*07	*49	*07		PCR-SSO
859	Kamoun,Malek	*02:01	*11:01	*07:06	*49:01	*07:01	*07:02	SBT,SSP
4337	Kim,Tai-Gyu	*02:01	*11:01	*07:06	*49:01	*07:01	*07:02	SBT,SSP
725	Lardy,N.M.	*02	*11	*07	*49	*07		SSO,SSP
278	Lee,Jar-How	*02:01	*11:01	*07:06	*49:01	*07:01	*07:02	SSP,RSSO
6649	Lim,Young Ae	*02	*11	*07	*49	*07		SSP
274	Lo,Raymundo	*02	*11:12	*07	*49:01	*07	*07	SSO
731	Loew enthal,R	*02:01	*11:01:01	*07:05	*49:01	*07:01/19	*07:02/27	SSO
759	Lopez-Cepero	*02:01/07/09+	*11:01/02/03+	*07:05/06/90+	*49:01/06/12+	*07:01/05/06+	*07:02/13/19+	RSSO
23	Mah,Helen	*02:01	*11:01	*07:06	*49:01	*07:01	*07:02/27	PCR-SSO
8029	Mani,Rama	*02	*11	*07	*49	*07	*07	SSO
8052	Marcos,Cintia Y	*02	*11	*07	*49	*07	*07	SSO
206	McAlack-Hanau	*02	*11	*07	*49	*07	*07	RSSO
54	Pancoska,Carol	*02	*11	*07	*49	*07		RSSOP
8001	Rao,Prakash	*02	*11	*07	*49	*07		RSSO
3625	Rees,Tracey	*02	*11	*07:05/06	*49:01	*07:01	*07:02	PCR-SSP,SBT
5200	Reinke,Dennis	*02	*11	*07	*49	*07		SSP
3519	Renac,Virgie	*02:01	*11:01	*07:06	*49:01	*07:01	*07:02	SBT
1160	Rosen-Bronson	*02:01/101/346	*11:01/04/12	*07:06	*49:01	*07:01	*07:02	RSSO,SSP,SBT
793	Rubocki,Ronald	*02	*11	*07	*49	*07		SSP
4251	Schiller,Jennifer	*02:01	*11:01	*07:05:01G	*49:01	*07:01:01G	*07:02:01G	PCR-RSSO,SBT
747	Tiercy,Jean-Marie	NT						SSO,SSP,SBT
5462	Turner,E.V.	*02:01	*11:01	*07:05P	*49:01	*07:01	*07:02	SBT,SSO,SSP
3186	Watson,Narelle	*02	*11	*07	*49	*07	*07	SSO,SBT

Table 11. Individual laboratory results for Cell #1508

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
16	Askar,Medhat	*11:01	*24:02	*40:06:01	*44:03:02	*07:06	*08:01:01	PCR-RSSO,SBT
774	Cecka,J.Michael	*11	*24	*40:06/86/103+	*44	*07	*08	SSP
8070	Chang,Uckjin	*11	*24	*40	*44	*07	*08	SSP
4492	Charron,D.	*11:01/69N/86+	*24:02/135+	*40:06/165/167	*44:03/128/143	*07:06	*08:01/58/60	PCR-SSO,SSP
798	Claas,F.H.J.	*11:01:01	*24:02:01	*40:06:01	*44:03:02	*07:06	*08:01:01	SBT
3632	Colombe,Beth	*11:01	*24:02	*40:06	*44:03	*07:06	*08:01	SSO,SSP
5130	Costeas,Paul	*11:01	*24:02	*40:06	*44:03	*07:06	*08:01	SSP,SSO
779	Daniel,Claud	*11	*24	*40:04/64/129+	*44	*07	*08	PCR-SSP,SSO
3766	Dunn,Paul	*11	*24	*40:04+	*44	*07	*08	SSO
5214	Eckels/CPMC	*11	*24	*40 (B61)	*44	*07	*08	SSO
762	Fischer,Gottfried	*11	*24	*40	*44	*07	*08	SSO,SSP
4079	Fort,Marylise	*11:01/126	*24:02	*40:06	*44:03	*07:06	*08:01	PCR-SSO,SSP
792	Gandhi,Manish	*11:01	*24:02	*40:06	*44:03	*07:06	*08:01	SSO,SSP
9002	Gideoni_LR	*11	*24	*40	*44	*07	*08	SSO,SSP
810	Hamdi,Nuha	*11:01/02/03+	*24:02/02Q/05+	*40:04/06/64+	*44:03/07/47+	*07:01/06/16+	*08:01/08/11+	SSO
4269	Hanau,Daniel	NT						RSSO
3808	Hogan,Patrick	*11	*24	*40:06	*44:03	*07:01+	*08	PCR-SSO,SSP
745	Holman,Richard	*11:01/117	*24:02/235	*40:06/165+	*44:03/128	*07:06	*08:01/58/60	SSO,SSP,SBT
771	Israel,Shoshana	*11:01	*24:02	*40:06	*44:03	*07:06	*08:01	SBT,SSP
9003	Israel_LR	*11	*24	*40	*44	*07	*08	PCR-SSO
859	Kamoun,Malek	*11:01	*24:02	*40:06	*44:03	*07:06	*08:01	SBT,SSP
4337	Kim,Tai-Gyu	*11:01	*24:02	*40:06	*44:03	*07:06	*08:01	SBT,SSP
725	Lardy,N.M.	*11	*24	*40	*44	*07	*08	SSO,SSP
278	Lee,Jar-How	*11:01	*24:02	*40:06	*44:03	*07:01	*08:01	SSP,RSSO
6649	Lim,Young Ae	*11	*24	*40 (B61)	*44	*07	*08	SSP
274	Lo,Raymundo	*11:12	*24	*40	*44:43	*07	*08	SSO
731	Loew enthal,R	*11:01/27	*24:02/10	*40:06	*44:03:02	*07	*08:01	SSO
759	Lopez-Cepero	*11:01/02/03+	*24:02/05/07+	*40:06/04/64+	*44:03/07/47+	*07:01/06/16+	*08:01/08/11+	RSSO
23	Mah,Helen	*11:01	*24:02	*40:06	*44:03	*07:01	*08	PCR-SSO
8029	Mani,Rama	*11	*24	*40	*44	*07	*08	SSO
8052	Marcos,Cintia Y	*11	*24	*40	*44	*07	*08	SSO
206	McAlack-Hanau	*11	*24	*40 (B61)	*44	*07	*08	RSSO
54	Pancoska,Carol	*11	*24	*40	*44	*07	*08	RSSO0P
8001	Rao,Prakash	*11	*24	*40:04/06/64+	*44	*07	*08	RSSO
3625	Rees,Tracey	*11	*24	*40:06	*44:03	*07:06/18	*08	PCR-SSP,SBT
5200	Reinke,Dennis	*11	*24	*40 (B61)	*44	*07	*08	SSP
3519	Renac,Virgie	*11:01	*24:02	*40:06	*44:03	*07:06	*08:01	SBT
1160	Rosen-Bronson	*11:01	*24:02	*40:06	*44:03	*07:06	*08:01	RSSO,SSP,SBT
793	Rubocki,Ronald	*11	*24	*40	*44	*07		SSP
4251	Schiller,Jennifer	*11:01	*24:02	*40:06	*44:03	*07:01:01G	*08:01:01G	PCR-RSSO,SBT
747	Tiercy,Jean-Marie	NT						SSO,SSP,SBT
5462	Turner,E.V.	*11:01	*24:02	*40:06	*44:03	*07:06	*08:01	SBT,SSO,SSP
3186	Watson,Narelle	*11	*24	*40:06	*44:03	*07	*08	SSO,SBT

Table 12 . Individual laboratory results for Cell #1505-1508

Investigator	Cell No 1505 (Caucasian)										Cell No 1506 (Hispanic)							Cell No 1507 (Filipino)							Cell No 1508 (Filipino)																
	Days Old	Viab %	A2	A24	B7	B60	Cw3	Cw7	Bw6	OTHERS	Viab %	A2	B27	B40	Cw1	Cw3	Bw4	Bw6	OTHERS	Viab %	A2	A11	B7	B49	Cw7	Bw4	Bw6	Viab %	A11	A24	B61	B44	Cw7	Cw8	Bw4	Bw6	OTHERS				
Alvarez, Carr	?	90	+	+	+	+		+		90	+	+				+	+			90	+	+	+	+		+	+	90	+	+	B40	+			+	+					
Askar, Medhat	2	95	+	+	+	+	+	+	+	95	+	+	B40V	+	+	+	+			95	+	+	+	+	+	+	+	95	+	+	+	+	+			+	+				
Cecka, J. Mic	?	95	+	+	+	+			+	95	+	+	B61			+	+			95	+	+	+	+		+	+	95	+	+	+	+				+	+				
Charron, Domi	?	100	+	+	+	B40			+	100	+	+				+	+			90	+	+	+	+		+	+	90	+	+	B40	+				+	+				
Claas, F.H.J.	6	90	+	2403	+	+	+		+	90	+	+	+	+	+	+	+			90	+	+	+	+		+	+	90	+	+	+	+				+	+				
Dunk, Arthur	2	98	+	2403	+	+	+	+	+	98	+	+	+	+	+	+	+			98	+	+	+	+	+	+	+	98	+	+	+	+	+				+	+			
Dunn, Paul	7	90	+	+	+	+			+	90	+	+	B61			+	+			90	+	+	+	+		+	+	90	+	+	+	+					+	+			
Enczmann, J	6	98	+	+	+	+				98	+	+	+							98	+	+	+	+				98	+	+	+	+									
Esteves Kondo	2	98	+	+	+	+	+	+	+	98	+	+	B40V	+	+	+	+			98	+	+	+	+	+	+	+	98	+	+	+	+	+	+	+	+	+	+			
Fort, Marylis	3	98	+	+	+	B40			+	98	+	+	+			+	+			98	+	+	+	+		+	+	98	+	+	+	+					+	+			
Gideoni, Osna	?	100	+	+	+	+	+	+		100	+	+	+	+	+					100	+	+	+	+	+			100	+	+	+	+	+								
Hahn, Amy B.	?	98	+	2403	+	+	w 10	+	+	99	+	+	B61	+	w 10	+	+			98	+	+	+	+	+	+	+	95	+	+	+	+	+			+	+	B40			
Hesse, Kissel	3	95	+	2403	+	+	+	+	+	95	+	+	+	+	+	+	+			95	+	+	+	+	+	+	+	95	+	+	+	+	+	+	+	+	+	+			
Hogan, Patric	13	30	+	+	+	+	+	+	+	30	+	+	+	+	+	+	+			30	+	+	+	+	+	+	+	30	+	+	+	+	+	+	+	+	+	+			
Holman, Richa	3	80	+	2403	+	+			+	80	+	+	+			+	+			80	+	+	+	+		+	+	80	+	+	+	+					+	+			
Israel, Shosh	6	75	+	2403	+	+	+	+	+	75	+	+	+	+	+	+	+			75	+	+	+	+	+	+	+	65	+	+	B60	+	+	+	+	+	+	+			
Keow n, Paul M	?	99	+	+	+	+			+	Bw 4	95	+	+			+	+			95	+	+	+	+		+	+	80	+	+	+	+					+	+			
Klein, Tirza	?	90	+	+	+	+	+	+	+	90	+	+	+	+	+	+	+			80	+	+	+	+	+	+	+	80	+	+	+	+	+					+	+		
Kvam, Vonnett	3	97	+	2403	+	+	+	+	+	97	+	+	4008	+	+	+	+			95	+	+	+	+	+	+	+	97	+	+	+	+	+					+	+		
Loew enthal M	?	90	+	+	+	+	+	+	+	90	+	+		+	+	+				85	+	+	+	+	+	+	+	90	+	+	+	+	+					+	+		
Mah, Helen	2	98	+	2403	+	+	+	+	+	98	+	+	B40V	+	+	+	+			98	+	+	+	+	+	+	+	98	+	+	+	+	+					+	+		
Meyer, Pieter	?	90	+		+	+	+	+		90	+	B7		+	+					90	+	+	+	+	+			90	+	+	B60	+	+	+					B49		
Pancoska, Car	2	98	+	+	+	+	w 10	+		98	+	+	4008	+	w 10					98	+	+	+	+	+			98	+	+	+	+	+								
Permpikul, Ve	6	85	+	+	+	+			+	85	+	+	+			+	+			85	+	11.1	+	+		+	+	85	11.1	+	+	+					+	+			
Rees, Tracey	6	80	+	2403	+	+	+	+	+	70	+	+	+	+	+	+	+			80	+	+	+	+	+	+	+	75	+	+	+	+	+	+	+	+	+	+			
Renac, Virgin	3	99	+	+	+	+			+	99	+	+				+	+			99	+	+	+	B21		+	+	99	+	+	B40	+						+	+		
Rosen-Bronsor	3	99	+	+	+	+	+	+	+	99	+	+	B61	+	+	+	+			99	+	+	+	+	+	+	+	99	+	+	+	+	+	+	+	+	+	+	+		
Rubocki, Rona	?	97	+	+	+	+	+	+	+	99	+	+	B40V	+	+	+	+			99	+	+	+	+	+	+	+	99	+	+	+	+	+	+	+	+	+	+	+		
Shai, Isaac	9	88	+	+	+	+	+	+	+	86	+	+	B48	+	+	+	+			90	+	+	+	+	+	+	+	90	+	+	B40	+	+	+	+	+	+	+	B48		
Tiercy, Jean-	6	80	+	+	+	+			+	80	+	+	+			+	+																								
Vather, Nelso	?		+	2403	+	+					+	+	B81					A28			+	+	B81	+					+	+	B60	+									
Vidan-Jeras,	6	90	+	+	+	+	+	+	+	100	+	+		+	+	+	+			100	+	+	+	+	+	+	+	100	+	+	+	+	+	+	+	+	+	+	+	+	
Watson, Narel	10	70	+	+	+	B40			+	70	+	+	+			+	+			70	+	+	+	+		+	+	70	+	+	B40	+					+	+			

Serum Exchange #535

The results for Serum Exchange #535 (sera 1133 – 1136) are summarized in Tables 13-17 and individual laboratory results by method are listed in Tables

18-26. In this month's study, sera strongly positive to B13 and B12 were examined.

Sample 1133 was found to be strongly positive to B13 by all methods. Reactivity to B7 was also detected by all methods. Additional positivity to other 7C specificities was reported by various methods. Luminex, along with

1 lab using C1q, reported reactivity to a number of class II antigens (DR7, DR9, DR11, and DR53). Additional reactivity to DPw1, DPw2, DPw3, Dpw4, Dpw5, Dpw6 was also detected by Luminex.

1133	method	#labs	B13	B7	B27	B61	B60	B48	B81	B47	B37	B38	B8	B41	B42	B35	B49	B55	B67	B18	B71	B56	B65	B62
	NIH-Std	6	100	33	17	50	33										17							
	NIH-Ext	4	100	50		50	50	25	25															
	AHG	5	80	80	80	80	80	40	20	20			20	20	20									
	Luminex	28	96	96	96	93	93	89	79	93	79	75	89	89	93	82	75	93	79	79	71	86	64	86
	Flow	3	67	67	33						33	33				67	67	67		67				67
	ELISA	2	100	100	100	100	100	100	100	100	100	100	100		100	100			100		100	100	100	
	Other	3	100	100	67	100	100	67	100	67	67			67	33	33	33		33					33

1133	method	#labs	B54	B39	B45	B72	A25	B78	B40	B73	B76	B50	B75	B77	B59	B52	B64	Cw2	Cw17	B63	A30	A11	B5	B44	B46
	NIH-Std	6				17			17														17	17	17
	NIH-Ext	4																							
	AHG	5					20	20	20													40			
	Luminex	28	82	75	75	86		61		96	82	79	79	71	68	64	64	79	64	57					
	Flow	3		33	67																				
	ELISA	2	100				50														50				
	Other	3		33								33													

1133	method	#labs	DR7	DR11	DR53	DR9	DPW1	DPW2	DPW3	DPW5	DPW4	DPW6	DR10
	Luminex	2	75	80	80	80	65	65	65	65	60	55	25
	Other	20	100	50	50	50							

1134	method	#labs	B13	A32	A25	B60	B61	B45	B38	B44	A68	B48	B72	B18	B71	B37	B47	B48	B51	B51	B35	B62	A29	B75	A30	A31
	NIH-Std	6	100	17	17	17	17													17						
	NIH-Ext	4	100	25																						
	AHG	5	100	60	60						40	20														
	Luminex	28	96	89	86	89	89	93	82	82			89	89	86	86	86	82	82		93	89	82	79	75	75
	Flow	3	67	67	67			67	67	67									67	67	67	67				
	ELISA	2	100	50	50	100	100	100	100	100	100	100	100	100	100	100	100	100					50	100	50	50
	Other	3	67																							

For **sample 1134**, strong reactivity to B13 was detected by all methods. Additional reactivity to A25 and A32 was also reported by various methods. ELISA, Luminex, and Flow detected anti-B38, -B44, and -B45 reactivity. In addition, Luminex and ELISA reported reactivity to 5C and 12C specificities. Class II reactivity to DR11, DR8, DR9, DQ2, DPw2, DPw3, DPw4, DPw6 was reported by Luminex.

1134	method	#labs	DR11	DR8	DR9	DQ2	DPW2	DPW3	DPW6	DPw4
	Luminex	20	75	75	70	70	55	55	50	50
	Other	2	no specificities assigned							

1135	method	#labs	DR7	DR11	DR9	DQ2	DPW2	DPW3	DPW6	Dpw4
	Luminex	20	75	75	70	70	55	55	50	50
	Other	2	75	70	70	60	50	50	45	45

Sample 1135 was found to be positive to B13 and B44 by all methods. Additional reactivity to A32 and A25, as well as to 5C, 8C, and 12C specificities, was detected by various methods. Luminex also reported strong reactivity to B53, B72, and B76. Positivity to DR7, DR9, DR11, DQ2, along with DP (DPw2, DPw3, DPw4, and DPw6) was reported by Luminex and 1 lab using C1q.

1135	method	#labs	B13	B44	A32	B45	A25	B49	B35	B38	A29	B18	B61	B60	B47	B48	B51	A30	A31	B39	A68	B71	B8	B41
	NIH-Std	6	100	17	17												17							
	NIH-Ext	4	100	25	25	25																		
	AHG	5	100	40	60		40	60	20		20	20	20	20										
	Luminex	28	96	86	89	89	86	82	93	82	79	89	89	86	89	79	86	71	71	72	71	86	89	89
	Flow	3	67	67	67	67	33	67	67	67							67						67	
	ELISA	2	100	100		100	100	100		100	50	100	100	100	100	100		50	50	100		100		
	Other	3	100	33	33	33	33		33	33	33				33	33		33	33	33	100			33

1135	method	#labs	B50	B75	B37	B62	B52	A74	A34	A3	A33	A36	B27	A26	A11	B53	B72	B76	B77	B59	B78	A43	B64	A66
	NIH-Std	6			17							17	17											
	NIH-Ext	4																						
	AHG	5	40	20					20			20											40	
	Luminex	28	86	82	89	89	75	82	82	71	71					89	89	89	79	75	75	71	71	
	Flow	3			67	67																		
	ELISA	2								50					100									
	Other	3						33			33	33	100											

1136	method	#labs	B62	B44	B45	B35	B49	B13	B50	B71	B38	B41	B52	B18	B72	B53	B60	B61	B47	B51	B70	B39	B63
	NIH-Std	6	67	83	67	33	33	33	33	17					33						17		
	NIH-Ext	4	100	100	100	75	75	25	75	50		25	25	25							50		
	AHG	5	100	100	100	100	100	60	100		20	20				40	40			60	80		
	Luminex	28	93	89	89	96	86	86	89	86	82	89	75	93	93	93	86	89	86	82		71	82
	Flow	3	67	67	67	67	67	67			67									67			
	ELISA	2	100	100	100	100	100	100	100	100	100			100	100	100	100	100	100			100	100
	Other	3	100	100	100	100	100	100	100	100	33	33	33	33		100						33	


1136	method	#labs	B56	B64	B48	B78	A1	B76	B75	B37	B77	B8	B59	B57	B58	B46	B65	B82	Cw9	Cw10	A33	A34	A36
	NIH-Std	6					17																
	NIH-Ext	4																					
	AHG	5																					
	Luminex	28	82	71	86	82		93	89	86	82	82	75	71	71	68	68	54	33	25	33	33	33
	Flow	3					33																
	ELISA	2	100	100																			
	Other	3			33	100																	

1136	method	#labs	DR7	DR1	DR103	DR9	DR51	DR10	DR53
	Luminex	20	75	70	70	50	70	60	50
	Other	2	50	50	50	50			

For **sample 1136**, strong reactivity to B12 (B44, B45), B13, B35, B49, and B62 was detected by all methods. Additional reactivity to B38, B41, B50, and B71 was detected by various methods. Luminex also reported strong positivity to other 5C and 7C antigens. Reactivity to DR1, DR103, DR7, DR9, DR10, DR51, and DR53 was detected by Luminex.

References

1. Guttridge MG, Street J, Thomas M and Darke C. Identification of HLA-A*0224: implications of PCR-SSP. Tissue Antigens 1999;53:190-193.
2. Reekers P, van der Beucken M, Andrien M, et al. HLA-B POT: a new HLA-antigen within the B7-cross reactive group. Tissue Antigens 1986;28:182-189.



This is the last sendout in 2013. Wishing you the very best this Holiday Season.

Arlene, Maria, Ching, Belen, Andrea, David and George

NEXT MAILING DATE: February 5, 2014

Arlene Locke, David Gjertson, Qiheng Zhang, and Elaine F. Reed




Table 13 . Summary of the 535th Serum Exchange (Serum #1133-1136) by NIH-Standard and NIH-Extended - class I

Method: NIH-Std											
*** Serum 1133 ***			*** Serum 1134 ***			*** Serum 1135 ***			*** Serum 1136 ***		
6 typing Labs			6 typing Labs			6 typing Labs			6 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B13	100%	41%	B13	100%	90%	B13	100%	100%	B44	83%	73%
B61	50%	50%	A25	17%	100%	A32	17%	100%	B62	67%	56%
B60	33%	50%	A32	17%	100%	A36	17%	100%	B45	67%	33%
B7	33%	29%	B21	17%	100%	B21	17%	100%	B21	33%	100%
B27	17%	100%	B27	17%	100%	B27	17%	100%	B50	33%	100%
B40	17%	100%	B51	17%	100%	B37	17%	100%	B72	33%	100%
B5	17%	100%	B60	17%	80%	B44	17%	100%	B35	33%	89%
B72	17%	100%	B39	17%	40%	B46	17%	100%	B49	33%	50%
B44	17%	50%	B57	17%	40%	B56	17%	100%	B13	33%	20%
B46	17%	50%	B61	17%	33%	B65	17%	100%	B12	17%	100%
B49	17%	25%	B64	17%	33%	B51	17%	67%	B70	17%	100%
									B71	17%	100%
									A1	17%	75%
									A32	17%	50%

Method: NIH-Ext											
*** Serum 1133 ***			*** Serum 1134 ***			*** Serum 1135 ***			*** Serum 1136 ***		
4 typing Labs			4 typing Labs			4 typing Labs			4 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B13	100%	100%	B13	100%	100%	B13	100%	100%	B44	100%	100%
B60	50%	100%	A32	25%	100%	A32	25%	100%	B45	100%	100%
B61	50%	100%				B44	25%	100%	B62	100%	100%
B7	50%	100%				B45	25%	100%	B49	75%	100%
B48	25%	100%							B50	75%	100%
B81	25%	100%							B35	75%	92%
									B70	50%	100%
									B71	50%	100%
									B41	25%	100%
									B52	25%	100%
									B72	25%	100%
									B18	25%	67%
									B13	25%	50%

Table 14 . Summary of the 535th Serum Exchange (Serum #1133-1136) by Antiglobulin and Other - class I

Method: Antiglobulin											
*** Serum 1133 ***			*** Serum 1134 ***			*** Serum 1135 ***			*** Serum 1136 ***		
5 typing Labs			5 typing Labs			5 typing Labs			5 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B13	80%	100%	B13	100%	100%	B13	100%	92%	B35	100%	100%
B27	80%	100%	A25	60%	100%	A32	60%	86%	B44	100%	100%
B60	80%	100%	A32	60%	100%	B49	60%	71%	B49	100%	100%
B61	80%	100%	B44	60%	45%	A25	40%	100%	B50	100%	100%
B7	80%	100%	A68	40%	46%	B44	40%	83%	B62	100%	100%
B48	40%	100%	A29	20%	100%	A66	40%	75%	B45	100%	70%
A11	40%	81%	A36	20%	100%	B50	40%	50%	B70	80%	100%
A25	20%	100%	A66	20%	100%	A29	20%	100%	B13	60%	88%
B40	20%	100%	A69	20%	100%	A34	20%	100%	B51	60%	77%
B47	20%	100%	B21	20%	100%	A36	20%	100%	B60	40%	100%
B78	20%	100%	B40	20%	100%	B18	20%	100%	B61	40%	50%
B8	20%	100%	B48	20%	100%	B60	20%	100%	A68	20%	100%
B81	20%	100%	A23	20%	75%	B61	20%	100%	A69	20%	100%
B42	20%	71%	B49	20%	75%	B75	20%	100%	B38	20%	100%

Method: Other											
*** Serum 1133 ***			*** Serum 1134 ***			*** Serum 1135 ***			*** Serum 1136 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B13	100%	100%	B13	67%	100%	B13	100%	100%	B35	100%	100%
B60	100%	100%				A25	33%	100%	B44	100%	100%
B61	100%	100%				A29	33%	100%	B45	100%	100%
B7	100%	100%				A30	33%	100%	B49	100%	100%
B81	100%	100%				A31	33%	100%	B50	100%	100%
B27	67%	100%				A32	33%	100%	B53	100%	100%
B47	67%	100%				A33	33%	100%	B62	100%	100%
B37	67%	100%				A74	33%	100%	B71	100%	100%
B41	67%	100%				B27	33%	100%	B78	67%	100%
B48	67%	100%				B35	33%	100%	B13	33%	100%
B35	33%	100%				B38	33%	100%	B18	33%	100%
B39	33%	100%				B39	33%	100%	B38	33%	100%
B42	33%	100%				B41	33%	100%	B39	33%	100%
B49	33%	100%				B44	33%	100%	B41	33%	100%
B50	33%	100%				B45	33%	100%	B47	33%	100%

Table 15 . Summary of the 535th Serum Exchange (Serum #1133-1136) by Luminex

Method: Luminex											
*** Serum 1133 ***			*** Serum 1134 ***			*** Serum 1135 ***			*** Serum 1136 ***		
28 typing Labs			28 typing Labs			28 typing Labs			28 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B13	96%	100%	B13	96%	100%	B13	96%	100%	B35	96%	100%
B27	96%	100%	B35	93%	100%	B35	93%	100%	B18	93%	100%
B7	96%	100%	B45	93%	100%	A32	89%	100%	B53	93%	100%
B73	96%	100%	A32	89%	100%	B18	89%	100%	B62	93%	100%
B42	93%	100%	B18	89%	100%	B37	89%	100%	B72	93%	100%
B47	93%	100%	B41	89%	100%	B41	89%	100%	B76	93%	100%
B55	93%	100%	B60	89%	100%	B45	89%	100%	B41	89%	100%
B60	93%	100%	B61	89%	100%	B47	89%	100%	B44	89%	100%
B61	93%	100%	B62	89%	100%	B53	89%	100%	B45	89%	100%
B41	89%	100%	B72	89%	100%	B61	89%	100%	B50	89%	100%
B48	89%	100%	A25	86%	100%	B62	89%	100%	B61	89%	100%
B8	89%	100%	B37	86%	100%	B72	89%	100%	B75	89%	100%
B56	86%	100%	B47	86%	100%	B76	89%	100%	B13	86%	100%
B62	86%	100%	B50	86%	100%	B8	89%	100%	B37	86%	100%
B72	86%	100%	B53	86%	100%	A25	86%	100%	B47	86%	100%
B35	82%	100%	B71	86%	100%	B44	86%	100%	B48	86%	100%
B54	82%	100%	B76	86%	100%	B50	86%	100%	B49	86%	100%
B76	82%	100%	B8	86%	100%	B51	86%	100%	B60	86%	100%
B18	79%	100%	A29	82%	100%	B60	86%	100%	B71	86%	100%
B37	79%	100%	A74	82%	100%	B71	86%	100%	B38	82%	100%
B50	79%	100%	B38	82%	100%	A74	82%	100%	B51	82%	100%
B67	79%	100%	B44	82%	100%	B38	82%	100%	B56	82%	100%
B81	79%	100%	B48	82%	100%	B49	82%	100%	B63	82%	100%
CW2	79%	100%	B48	82%	100%	B75	82%	100%	B77	82%	100%
B75	79%	88%	B51	82%	100%	B75	82%	100%	B78	82%	100%
B38	75%	100%	A34	82%	73%	A34	82%	70%	B8	82%	100%
B39	75%	100%	A3	79%	100%	A29	79%	100%	B52	75%	100%
B45	75%	100%	A33	79%	100%	B48	79%	100%	B59	75%	100%
B49	75%	100%	B49	79%	100%	B77	79%	100%	B39	71%	100%
B71	71%	100%	B75	79%	100%	B52	75%	100%	B57	71%	100%
B77	71%	100%	A30	75%	100%	B59	75%	100%	B58	71%	100%
B59	68%	100%	A31	75%	100%	B78	75%	100%	B64	71%	100%
B52	64%	100%	B59	75%	100%	A3	71%	100%	B46	68%	100%
B64	64%	100%	B77	75%	100%	A30	71%	100%	B65	68%	100%
B65	64%	100%	B78	75%	100%	A31	71%	100%	B82	54%	100%
			A26	71%	100%	A33	71%	100%			

Table 16 . Summary of the 535th Serum Exchange (Serum #1133-1136) by Flow cytometry and ELISA - class I

Method: Flow cytometry											
*** Serum 1133 ***			*** Serum 1134 ***			*** Serum 1135 ***			*** Serum 1136 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B13	67%	100%	A25	67%	100%	A32	67%	100%	B13	67%	100%
B18	67%	100%	A32	67%	100%	B13	67%	100%	B35	67%	100%
B35	67%	100%	B13	67%	100%	B35	67%	100%	B38	67%	100%
B45	67%	100%	B35	67%	100%	B38	67%	100%	B44	67%	100%
B49	67%	100%	B38	67%	100%	B44	67%	100%	B45	67%	100%
B55	67%	100%	B44	67%	100%	B45	67%	100%	B49	67%	100%
B62	67%	100%	B45	67%	100%	B49	67%	100%	B51	67%	100%
B7	67%	100%	B49	67%	100%	B51	67%	100%	B62	67%	100%
B27	33%	100%	B51	67%	100%	B52	67%	100%	A1	33%	100%
B37	33%	100%	B52	67%	100%	B62	67%	100%	A33	33%	100%
B38	33%	100%	B62	67%	100%	B8	67%	100%	A34	33%	100%

Method: ELISA											
*** Serum 1133 ***			*** Serum 1134 ***			*** Serum 1135 ***			*** Serum 1136 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B13	100%	100%	A26	100%	100%	A25	100%	100%	B41	100%	100%
B27	100%	100%	B13	100%	100%	A26	100%	100%	B44	100%	100%
B35	100%	100%	B18	100%	100%	A68	100%	100%	B49	100%	100%
B37	100%	100%	B37	100%	100%	B38	100%	100%	B56	100%	100%
B38	100%	100%	B38	100%	100%	B39	100%	100%	B61	100%	100%
B42	100%	100%	B44	100%	100%	B44	100%	100%	B62	100%	100%
B47	100%	100%	B45	100%	100%	B45	100%	100%	B64	100%	100%
B48	100%	100%	B47	100%	100%	B47	100%	100%	B13	100%	67%
B54	100%	100%	B48	100%	100%	B48	100%	100%	B35	100%	67%
B56	100%	100%	B60	100%	100%	B49	100%	100%	B38	100%	67%
B60	100%	100%	B71	100%	100%	B60	100%	100%	B39	100%	67%
B61	100%	100%	B72	100%	100%	B61	100%	100%	B45	100%	67%
B65	100%	100%	B75	100%	100%	B71	100%	100%	B47	100%	67%
B67	100%	100%	A11	100%	67%	B18	100%	75%	B50	100%	67%
B7	100%	100%	B61	100%	50%	A11	100%	67%	B53	100%	67%
B71	100%	100%	A25	50%	100%	B13	100%	67%	B60	100%	67%

Table 17 . Summary of the 535th Serum Exchange (Serum #1133-1136) by Other and Luminex - class II

Method: Other											
*** Serum 1133 ***			*** Serum 1134 ***			*** Serum 1135 ***			*** Serum 1136 ***		
2 typing Labs			2 typing Labs			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR7	100%	100%	no antigens assigned			no consensus			no consensus		
DR11	50%	100%									
DR53	50%	100%									
DR9	50%	100%									

Method: Luminex											
*** Serum 1133 ***			*** Serum 1134 ***			*** Serum 1135 ***			*** Serum 1136 ***		
20 typing Labs			20 typing Labs			20 typing Labs			20 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR11	80%	100%	DR11	75%	100%	DR7	75%	100%	DR7	75%	100%
DR53	80%	100%	DR7	75%	100%	DR11	70%	100%	DR1	70%	92%
DR9	80%	100%	DR9	70%	100%	DR9	70%	92%	DR103	70%	83%
DR7	75%	100%	DQ2	70%	92%	DQ2	60%	90%	DR51	70%	69%
DPW1	65%	100%	DPW2	55%	100%	DPW2	50%	100%	DR10	60%	80%
DPW2	65%	100%	DPW3	55%	100%	DPW3	50%	100%	DR9	50%	88%
DPW3	65%	100%	DPW6	50%	100%	DPW6	45%	100%	DR53	50%	59%
DPW5	65%	100%	DPW4	50%	50%	DPW4	45%	50%			
DPW4	60%	82%									
DPW6	55%	100%									
DR10	25%	100%									

Table 18 . Individual laboratory results for Serum #1133-1136 by NIH-Extended and NIH-Standard

Investigator	**** Serum 1133 ****						**** Serum 1134 ****			**** Serum 1135 ****			**** Serum 1136 ****										Method	
	% POS	B13	B61	B60	B7	Other	% POS	B13	Other	% POS	B13	Other	% POS	B44	B62	B45	B21	B50	B72	B35	B49	B13		Other
Claas, F.H.J.	52	+				B40,B44,B5,B72	8	+		4	+		56		+		+	+	+	+			B12	STD
Esteves Kondo, De	10	+	+			B49,B46	35	+	B60,B61,B27,B51 >	36	+	B27,B51,B56,A36 >	31	+		+		+	+		+		A1,A32,B71	STD
Fort, Marylise		+						+			+			+		+								STD
Hogan, Patrick	21	+	+	+	+		5	+		4	+		50	+	+			+		+	+			STD
Suciu-Foca, Nicole	17	+	+	+	+	B27	11	+	B21,A25,A32	11	+	B21,B44,A32	50	+	+	+	+					+	B70	STD
Watson, Narelle	11	+					7	+		8	+		29	+	+	+						+		STD

Investigator	**** Serum 1133 ****						**** Serum 1134 ****			**** Serum 1135 ****			**** Serum 1136 ****										Method	
	% POS	B13	B60	B61	B7	Other	% POS	B13	Other	% POS	B13	Other	% POS	B44	B45	B62	B49	B50	B35	B70	B71	Other		
Askar, Medhat Z. I	29	+	+	+	+	B81	9	+		11	+		57	+	+	+	+	+	+				B41	EXT
Dunn, Paul		+	+	+	+	B48		+	A32		+	B44,B45,A32		+	+	+	+	+				+		EXT
Lardy, N.M.	10	+					8	+		8	+		67	+	+	+	+	+	+	+	+		B13,B18,B72	EXT
McCluskey, James		+						+			+			+	+	+			+	+			B52	EXT

Table 19 . Individual laboratory results for Serum #1133-1136 by Antiglobulin and Other

Investigator	**** Serum 1133 ****										**** Serum 1134 ****						**** Serum 1135 ****						**** Serum 1136 ****											Method						
	% POS	B13	B27	B60	B61	B7	B48	A11	Other	% POS	B13	A25	A32	B44	A68	Other	% POS	B13	A32	B49	A25	B44	A66	B50	Other	% POS	B35	B44	B49	B50	B62	B45	B70		B13	B51	B60	B61	Other	
Cecka, J. Michael I	33	+	+	+	+	+	+		B78>	33	+	+	+	+	+	B60>	38	+	+	+	+	+	+	+	B51>	72	+	+	+	+	+	+	+	+	+	+	+	+	B48>	AHG
Gandhi, Manish M		+									+							+									+	+	+	+	+	+	+						AHG	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	B40>		+	+	+	+	+	B49		+	+	+					B27>		+	+	+	+	+	+	+	+					A68>	AHG
Mah, Helen	41		+	+	+	+		+	A25	17	+					A66>	12	+					+		A36	55	+	+	+	+	+	+			+			B75	AHG	
Suciu-Foca, Nicole	30	+	+	+	+	+			B8	10	+	+	+	+		B40>	20	+	+	+	+	+	+	+	B60>	50	+	+	+	+	+	+	+	+	+	+	+		AHG	

Investigator	**** Serum 1133 ****										**** Serum 1134 ****						**** Serum 1135 ****						**** Serum 1136 ****											Method							
	% POS	B13	B60	B61	B7	B81	B37	B41	Other	% POS	B13					Other	% POS	B13						Other	% POS	B35	B44	B45	B49	B50	B53	B62	B71		B41	B47	B52	B78	Other		
Dunk, Arthur		+	+	+	+	+	+	+			+							+							B27>		+	+	+	+	+	+	+	+	+	+	+	+	+	B70>	OTH
Phelan, Donna		+	+	+	+	+	+	+	B48>									+							B60>		+	+	+	+	+	+	+	+	+	+	+	+	+	B60>	OTH_PRA
Phelan, Donna		+	+	+	+	+			B48>		+							+									+	+	+	+	+	+	+	+	+	+	+	+	B75>	OTH_C1q	

Table 20. Individual laboratory results for Serum #1133 by Luminex

		**** Serum 1133 ****																																		
Investigator	% POS	B13	B27	B7	B73	B42	B47	B55	B60	B61	B41	B48	B8	B56	B62	B72	B35	B54	B76	B18	B37	B50	B67	B81	CW2	B75	B38	B39	B45	B49	B71	B77	Other	Method		
Askar, Medhat Z. I	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,B64,B65,B63 >	LMX		
Askar/WV,	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,B78,B52,B82 >	LMX		
Berka, Nouredine		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B52,B82,B64 >	LMX		
Cecka, J. Michael I	97																																	LMX		
Dunn, Paul		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,A66,B78,B52 >	LMX		
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B52,B82,B64 >	LMX	
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B52,B82,B64 >	LMX	
Gandhi, Manish ML		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,A66,B78,B52 >	LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,A66,B78,B52 >	LMX	
Hamdi, Nuha	44	+	+	+	+	+	+	+	+	+	+	+	+		+	+			+			+	+	+	+	+	+	+				A66	LMX			
Hardy, Steven PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B78,B52,B82 >	LMX	
Hogan, Patrick		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	A66,B78,B82	LMX	
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,A66,B78,B52 >	LMX	
Klein, Tirza	86	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+				B52,A25,A29	LMX	
Lardy, N.M.		+	+	+	+	+	+		+	+															+										LMX	
Mah, Helen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	CW6,B52,B64,B65 >	LMX
McAlack-Hanau,	63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	B78,B64,B59	LMX	
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+			+							B78,B82,B703,B8101 >	LMX
Meyer, Pieter Wa	23	+	+	+	+	+		+					+	+				+	+					+										B40,B15,A66,B78 >	LMX	
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B78,B52,B82 >	LMX
Permpikul, Vejbaes		+	+	+	+		+	+	+	+	+	+										+		+								+		A24,A30,A31,A23	LMX	
Pham, Tabary/ Reu	65	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	B52,B64,B65,B63 >	LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B78,B51,B82 >	LMX
Ramon, Daniel PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+		+	+	+	+	+	+	B52,B64,B65,B63 >	LMX
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B78,B52,B82 >	LMX
Suciu-Foca, Nicole		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,B52,B65,B63 >	LMX
Turner, E.V. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+			+	+	+	+	+	+	+	+	+	+	+	A66	LMX	
Vidan-Jeras, Blani	51	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,B78,B52,B82 >	LMX

Table 21. Individual laboratory results for Serum #1134 by Luminex

		**** Serum 1134 ****																																					
Investigator	% POS	B13	B35	B45	A32	B18	B41	B60	B61	B62	B72	A25	B37	B47	B50	B63	B71	B76	B8	A29	A74	B38	B44	B48	B51	A34	A3	A33	B49	B75	A30	A31	B59	B77	B78	Other	Method		
Askar, Medhat Z. I	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,A26,A68,A69 >	LMX		
Askar/WV,	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A 11,B52,A26,A68 >	LMX		
Berka, Nouredine		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A 11,A66,B52,A26 >	LMX		
Cecka, J. Michael I	49																																				LMX		
Dunn, Paul		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A 11,A66,B52,A26 >	LMX		
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A 11,A66,B52,A26 >	LMX	
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A 11,A66,B52,B67 >	LMX	
Gandhi, Manish ML		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A 11,A66,B52,B67 >	LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A 11,A66,B52,A26 >	LMX	
Hamdi, Nuha	80	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A 11,A66,B52,A26 >	LMX	
Hardy, Steven PhL		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A 11,A66,B52,A26 >	LMX	
Hogan, Patrick		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A 11,A66,A26,A68 >	LMX	
Holdsw orth, Rhon		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A 11,A66,B52,A26 >	LMX	
Klein, Tirza	90	+	+	+		+	+	+	+	+	+				+		+								+											+	B54,B55,B67,B42 >	LMX	
Lardy, N.M.		+																																				LMX	
Mah, Helen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,A26,A68,A69 >	LMX	
McAlack-Hanau,	87	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+								+	B39	LMX		
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+						+	+	+					+	+		+	A 11,A66,A69,B39 >	LMX
Meyer, Pieter Wa		+	+	+	+															+							+	+								+	B15,A66	LMX	
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A 11,A66,B52,A26 >	LMX
Permpikul, Vejbaes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+	+										+	B52	LMX	
Pham, Tabary/ Reu	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,A26,A68,A69 >	LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B52,A26,A68 >	LMX
Ramon, Daniel PhL		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,A26,A68,A69 >	LMX
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A 11,A66,B52,A26 >	LMX
Suciu-Foca, Nicole		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,B67,A26,A68 >	LMX
Turner, E.V. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B39	LMX
Vidan-Jeras, Blanl	58	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A 11,A66,B52,B67 >	LMX

Table 22. Individual laboratory results for Serum #1135 by Luminex

		**** Serum 1135 ****																																			
Investigator	% POS	B13	B35	A32	B18	B37	B41	B45	B47	B53	B61	B62	B72	B76	B8	A25	B44	B50	B51	B60	B71	A74	B38	B49	B75	A34	A29	B48	B77	B52	B59	B78	Other	Method			
Askar, Medhat Z. I	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A26,A30,A31,A33 >	LMX			
Askar/WV,	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A26,A30,A31 >	LMX			
Berka, Nouredine		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,A26,A30 >	LMX			
Cecka, J. Michael I	20																																	LMX			
Dunn, Paul		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,A26,A30 >	LMX			
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,A26,A30 >	LMX		
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,A26,A30 >	LMX		
Gandhi, Manish M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,B55,B56 >	LMX		
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,A26,A30 >	LMX		
Hamdi, Nuha	84	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,A26,A30 >	LMX		
Hardy, Steven PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,A26,A30 >	LMX	
Hogan, Patrick		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,A30,A31 >	LMX	
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,B67,A26 >	LMX	
Klein, Tirza	52	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B82,B7,A26 >	LMX	
Lardy, N.M.		+																																	LMX		
Mah, Helen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B67,A26,A30,A31 >	LMX	
McAlack-Hanau,	93	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B39	LMX	
McCluskey, James		+	+	+	+	+		+	+	+	+	+	+	+	+	+						+				+							+	+	A66,A1101,A6602	LMX	
Meyer, Pieter Wa		+	+	+				+							+											+							+	+	A11,B15,A66,A3	LMX	
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,A26,A30 >	LMX
Permpikul, Vejbaes		+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+			+					+	+			+	+	B39	LMX	
Pham, Tabary/ Ret	58	+	+		+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+	+				+	+	+	+	+	+	B56,B64,B65,B63 >	LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,A30,A31,A33 >	LMX
Ramon, Daniel PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A26,A30,A31,A33 >	LMX
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,A26,A30 >	LMX
Suciu-Foca, Nicole		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A26,A30,A31,A33 >	LMX
Turner, E.V. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B39	LMX
Vidan-Jeras, Blanka	55	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,A26,A30 >	LMX

Table 23 . Individual laboratory results for Serum #1136 by Luminex

		**** Serum 1136 ****																																			
Investigator	% POS	B35	B18	B53	B62	B72	B76	B41	B44	B45	B50	B61	B75	B13	B37	B47	B48	B49	B60	B71	B38	B51	B56	B63	B77	B78	B8	B52	B59	B39	B57	B58	B64	Other	Method		
Askar, Medhat Z. I	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B65,B46,B7801,B8201 >	LMX		
Askar/WV,	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,B65,B46,CW9	LMX		
Berka, Nouredine		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,A11,A24,A34 >	LMX		
Cecka, J. Michael I	31																																		LMX		
Dunn, Paul		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B82,B54,B65 >	LMX		
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,B65,B46,BW4	LMX	
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,B65,B46,CW10 >	LMX	
Gandhi, Manish M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B27,B82,B54 >	LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,B65,B46	LMX	
Hamdi, Nuha	78	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,B65,B46	LMX		
Hardy, Steven Ph		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,B65,B46,BW4 >	LMX	
Hogan, Patrick		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B82,B7,A36	LMX	
Holdsworth, Rhon		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,B65,B46,CW10 >	LMX	
Klein, Tirza	36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,B7	LMX		
Lardy, N.M.		+	+	+	+	+	+																				+									LMX	
Mah, Helen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B27,B54,B55 >	LMX	
McAlack-Hanau,	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B65,B46	LMX	
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+		+	+	+			+				+	+		+	+							A11,B82,B7,B703 >	LMX	
Meyer, Pieter Wa		+																									+								B15	LMX	
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,B65,B46	LMX	
Permpikul, Vejbae		+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+							+		+						A30,A31	LMX	
Pham, Tabary/ Reu	80	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+		+		+						A25,A29,A32,BW4 >	LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B65,B46	LMX	
Ramon, Daniel Ph		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B65,B46,B7801,B3901	LMX
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,B65,B46	LMX
Suciu-Foca, Nicole		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B65,B46,CW10,CW9 >	LMX
Turner, E.V. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+			+			LMX
Vidan-Jeras, Blant	46	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B27,B82,B65,B46 >	LMX

Table 24. Individual laboratory results for Serum #1133-#1136 by Flow and ELISA

**** Serum 1133 ****														**** Serum 1134 ****																
Investigator	% POS	B13	B18	B35	B45	B49	B55	B62	B7					Other	% POS	A25	A32	B13	B35	B38	B44	B45	B49	B51	B52	B62			Other	Method
Alvarez, Carretto	28	+	+	+	+	+	+	+	+					B40	53	+	+	+	+	+	+	+	+	+	+	+			A11>	FC
Eckels/CPMC,	99														99															FC
Esteves Kondo, D	97	+	+	+	+	+	+	+	+					B60	100	+	+	+	+	+	+	+	+	+	+	+			B60>	FC

**** Serum 1135 ****														**** Serum 1136 ****																		
Investigator	% POS	A32	B13	B35	B38	B44	B45	B49	B51	B52	B62	B8							Other	% POS	B13	B35	B38	B44	B45	B49	B51	B62			Other	Method
Alvarez, Carretto	43	+	+	+	+	+	+	+	+	+	+	+							B40	37	+	+	+	+	+	+	+			B40>	FC	
Eckels/CPMC,	99																			96											FC	
Esteves Kondo, D	100	+	+	+	+	+	+	+	+	+	+	+							B60	97	+	+	+	+	+	+	+			B60>	FC	

**** Serum 1133 ****														**** Serum 1134 ****																					
Investigator	% POS	B13	B27	B35	B37	B38	B42	B47	B48	B54	B56	B60	B61	B65	B67	B7	Other	% POS	A26	B13	B18	B37	B38	B44	B45	B47	B48	B60	B71	B72	B75	A11	B61	Other	Method
Esteves Kondo, D	76	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B71>	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B7>	EIA
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B71>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66>	EIA

**** Serum 1135 ****														**** Serum 1136 ****																					
Investigator	% POS	A25	A26	A68	B38	B39	B44	B45	B47	B48	B49	B60	B61	B71	B18	A11	Other	% POS	B41	B44	B49	B56	B61	B62	B64	B13	B35	B38	B39	B45	B47	B50	B53	Other	Method
Esteves Kondo, D	66	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B13>	73	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60>	EIA
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B13>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60>	EIA

Table 25 . Individual laboratory results for Serum #1133-1134 by Other and Luminex - class II

**** Serum 1133 ****														**** Serum 1134 ****													
Investigator	% POS	DR11	DR53	DR9	DR7								Other	Method	Investigator	% POS									Other	Method	
Phelan, Donna		+	+	+	+									OTH_PRA	Phelan, Donna		no specificities assigned										OTH_PRA
Phelan, Donna					+									OTH_C1q	Phelan, Donna		no specificities assigned										OTH_C1q
**** Serum 1133 ****														**** Serum 1134 ****													
Investigator	% POS	DR11	DR53	DR9	DR7	DPW1	DPW2	DPW3	DPW5	DPW4	DPW6	DR10	Other	Method	Investigator	% POS	DR11	DR7	DR9	DQ2	DPW2	DPW3	DPW6	DPW4	Other	Method	
Askar, Medhat Z. I	99	+	+	+	+	+	+	+	+	+	+	+		LMX	Askar, Medhat Z. I	99	+	+	+	+	+	+	+	+		LMX	
Askar/WV,	95	+	+	+	+	+	+	+	+	+	+	+		LMX	Askar/WV,	99	+	+	+	+	+	+	+	+		LMX	
Berka, Nouredine		+	+	+	+	+	+	+	+					LMX	Berka, Nouredine		+	+	+	+	+	+	+	+		LMX	
Cecka, J. Michael I	97	+	+	+	+	+	+	+	+	+				LMX	Cecka, J. Michael I	49	+	+	+	+						LMX	
Eckels/CPMC,		+	+	+	+									LMX	Eckels/CPMC,		+	+	+	+						LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+		LMX	Hahn, Amy B. PhD		+	+	+	+	+	+	+		DR10	LMX	
Hamdi, Nuha	44													LMX	Hamdi, Nuha	80										LMX	
Hogan, Patrick		+	+	+	+	+	+	+	+	+			DR52	LMX	Hogan, Patrick		+	+	+	+	+	+		+		LMX	
Klein, Tirza	86													LMX	Klein, Tirza	90										LMX	
McAlack-Hanau,	63	+	+	+	+									LMX	McAlack-Hanau,	87	+	+	+	+						LMX	
Meyer, Pieter Wa	23													LMX	Meyer, Pieter Wa											LMX	
Pancoska, Carol P		+	+	+	+	+	+	+	+	+				LMX	Pancoska, Carol P		+	+	+	+	+	+	+	+		LMX	
Permpikul, Vejbaes		+	+	+	+								DR8,DR12,DR13	LMX	Permpikul, Vejbaes		+	+								LMX	
Pham, Tabary/ Reu	65													LMX	Pham, Tabary/ Reu	95										LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+			LMX	Phelan, Donna		+	+	+	+	+	+	+	+		LMX	
Ramon, Daniel PhD		+	+	+	+	+	+	+	+	+	+			LMX	Ramon, Daniel PhD		+	+	+	+	+	+	+	+		LMX	
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+			LMX	Rosen-Bronson, S		+	+	+	+	+	+	+	+		LMX	
Turner, E.V. PhD		+	+	+		+	+	+	+	+	+			LMX	Turner, E.V. PhD		+	+	+	+	+	+	+	+	DQ9	LMX	
Vather, Nelson/		+	+	+	+	+	+	+	+	+	+	+		LMX	Vather, Nelson/		+	+	+	+	+	+	+	+		LMX	
Vidan-Jeras, Blani	51	+	+	+	+	+	+	+	+	+	+	+	DQ7,DQ9	LMX	Vidan-Jeras, Blani	58	+	+	+	+	+	+	+	+	DQ7,DQ9	LMX	

Table 26 . Individual laboratory results for Serum #1135-1136 by Other and Luminex - class II

**** Serum 1135 ****											**** Serum 1136 ****												
% POS	DR7	DR11	DR9							Other	Investigator	% POS	DR7	DR1	DR103	DR9				Other	Method		
	+	+	+								OTH_PRA	Phelan, Donna	+	+	+	+					OTH_PRA		
	no specificities assignd										OTH_C1q	Phelan, Donna	no specificities assignd										OTH_C1q

**** Serum 1135 ****											**** Serum 1136 ****											
Investigator	% POS	DR7	DR11	DR9	DQ2	DPW2	DPW3	DPW6	DPW4	Other	Method	Investigator	% POS	DR7	DR1	DR103	DR51	DR10	DR9	DR53	Other	Method
Askar, Medhat Z. I	99	+	+	+	+	+	+	+	+		LMX	Askar, Medhat Z. I	100	+	+	+	+	+	+	+		LMX
Askar/WV,	99	+	+	+	+	+	+	+	+		LMX	Askar/WV,	97	+	+	+	+	+	+	+		LMX
Berka, Nouredine		+		+							LMX	Berka, Nouredine		+	+	+	+	+	+	+	DR52	LMX
Cecka, J. Michael I	20	+	+	+	+						LMX	Cecka, J. Michael I	31	+	+	+	+	+		+		LMX
Eckels/CPMC,		+	+	+	+						LMX	Eckels/CPMC,		+	+	+	+	+	+	+		LMX
Hahn, Amy B. PhD		+	+	+		+	+	+			LMX	Hahn, Amy B. PhD		+	+	+	+	+	+	+		LMX
Hamdi, Nuha	84										LMX	Hamdi, Nuha	78									LMX
Hogan, Patrick		+	+	+	+	+	+		+		LMX	Hogan, Patrick		+	+	+	+	+			DR3,DR4,DR11,DR16 >	LMX
Klein, Tirza	52										LMX	Klein, Tirza	36									LMX
McAlack-Hanau,	93	+	+	+	+						LMX	McAlack-Hanau,	97	+	+	+	+					LMX
Meyer, Pieter Wa											LMX	Meyer, Pieter Wa										LMX
Pancoska, Carol P		+	+	+	+	+	+	+	+		LMX	Pancoska, Carol P		+	+	+	+	+	+	+		LMX
Permpikul, Vejbaes		+	+								LMX	Permpikul, Vejbaes		+								LMX
Pham, Tabary/ Reu	58										LMX	Pham, Tabary/ Reu	80									LMX
Phelan, Donna		+	+	+	+	+	+	+	+		LMX	Phelan, Donna		+	+	+	+					LMX
Ramon, Daniel PhD		+	+	+	+	+	+	+	+		LMX	Ramon, Daniel PhD		+	+	+	+	+	+	+		LMX
Rosen-Bronson, S		+	+	+	+	+	+	+	+		LMX	Rosen-Bronson, S		+	+	+	+	+	+			LMX
Turner, E.V. PhD		+	+	+	+	+	+	+	+		LMX	Turner, E.V. PhD		+	+	+	+	+	+	+		LMX
Vather, Nelson/											LMX	Vather, Nelson/										LMX
Vidan-Jeras, Blani	55	+	+	+	+	+	+	+	+	DQ9	LMX	Vidan-Jeras, Blani	46	+	+	+	+	+	+	+		LMX