REPORT OF THE 393rd CELL EXCHANGE
JULY 1, 2016

B-cell Lines	**527-528**
Cells	**1569-1572**
Sera	**1197-1200**

B-cell Line Exchange #264

The results for B-cell Line Exchange #264 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 8. We would like to express our appreciation to Nancy Goeken, University of Iowa, Iowa City, Fu-Meei Robbins, National Institutes of Health, Bethesda, and to Helen Bass, Jane Rowlands, and Tracey Reese, Welsh Blood Service, Pontyclun, for generously donating the valuable reference cells examined in this exchange.

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

Ter-527. The consensus type for this sample is DRB1*03:01-DRB1*13:06 -DRB3*01:01-DQA1*01:03-DQA1*05:01-DQB1*02:01-DQB1*06:03-DPA1*01:03-DPA1*02:01-DPB1*01:01-DPB1*03:01/A*01:01-A*32:01-B*08:01-B*44:02-C*05:01-C*07:01. No race information was available for this cell. One likely class II association in this cell is DRB1*03:01-DRB3*01:01-DQA1*05:01-DQB1*02:01, observed numerous times in the exchange, most recently in Ter 483 (same as Ter 298, 278, and 217) and Ter 477 (same as Ter 402 and 352). The other likely association present may then be DRB1*13:06-DRB3*01:01-DQA1*01:03-DQB1*06:03.

This cell is Ter331, a reference cell for DRB1*13:06. It was previously studied in the exchange as Ter 406 (2008) and Ter 331 (2004), as astutely noted by Chen, Rao, and Tiercy. In this present retyping, DRB1*13:06 was assigned by 100% of labs reporting at high resolution. Although the ethnicity of this cell is unknown, DRB1*13:06 is found to be observed exclusively in Hispanics, with HF=0.00025. DRB1*03:01 (100%) was reported as the second DRB1 type, with 7 labs reporting DRB1*03:01:01. A*01:01 (100%), A*32:01 (100%), B*08:01 (100%), B*44:02 (100%), C*05:01 (100%), and C*07:01 (94%) were the assigned class I types. A*01:01:01, A*32:01:01, B*08:01:01, B*44:02:01, C*05:01:01, and C*07:01:01 were each assigned by 5 labs.

Ter-528. The consensus type for this sample from a Caucasian donor is DRB1*04:01-DRB1*13:17-DRB3*02:02-DRB4*01:03-DQA1*03:01-DQA1*04:01-DQB1*03:02-DQB1*04:02-DPA1*01:03-DPB1*04:01-DPB1*04:02/A*02:01-A*32:01-B*15:01-C*03:03. One likely class II association in this cell is DRB1*04:01-DRB4*01:03-DQA1*03:01-DQB1*03:02, observed in previous exchange cells, Ter 517 (same as Ter 385) and Ter 441 (same Ter 432 and 347). The other likely association in this cell is DRB1*13:17-DRB3*02:02-DQA1*04:01-DQB1*04:02.

This cell is R.B, a reference cell for DRB1*13:17. It was previously examined in the exchange as Ter 405 (2008) and Ter 351 (2005), as correctly identified by Chen, Rao, and Tiercy. In this present retyping, DRB1*13:17 was reported in complete consensus by labs reporting at high resolution. By serology, 1 lab reported DR8 and the other DR13. The discrepancy in the serology results concurs with data showing that DRB1*13:17 resulted “from a reciprocal recombination event between DR8 and DR13 alleles” (1). DRB1*04:01 was reported as the second DRB1 type, with 9 labs reporting DRB1*04:01:01. A*02:01, A*32:01, and B*15:01 were reported in complete consensus. A*02:01:01 and A*32:01:01 were each assigned by 6 labs, and B*15:01:01:01 was assigned by 5 labs (3 NGS, 2 SBT). C*03:03 was reported by 95% as the sole C-locus type, with NGS assigning C*03:03:01.

References:

1. Rosenberg SM, Wollenzien TF, Robbins FM, et al. Yet another novel HLA DRB1 allele (DRB1*1317) and its misidentification by PCR-SSP. Tissue Antigens 1995:46:128-130.

Table 1: Summary of the 264th B-cell Line Exchange

Ter-527

DNA Typing - class II

34 labs High; 35 labs low-DRB1	%(n)
DRB1*03:01:01:01	3 (1)
DRB1*03:01:01G	6 (2)
DRB1*03:01:01	18(6)
DRB1*03:01	73(25)
DRB1*03(DR17)	3 (1)
DRB1*03	97(34)

36 labs High; 35 labs low-DRB1	%(n)
DRB1*13:06	100(36)
DRB1*13	100(35)

21 labs High; 25 labs Low-DRB3/4/5	%(n)
DRB3*01:01:02	5 (1)
DRB3*01:01	95(20)
DRB3*01	80(20)
DRB3*PRESENT	20(5)

24 labs High; 25 labs Low-DQA1	%(n)
DQA1*01:03:01:01	4 (1)
DQA1*01:03:01	4 (1)
DQA1*01:03	92(22)
DQA1*01	100(25)

24 labs High; 25 Labs Low-DQA1	%(n)
DQA1*05:01:01:01	4 (1)
DQA1*05:01:01	4 (1)
DQA1*05:01	92(22)
DQA1*05	100(25)

33 High Labs; 32 labs Low-DQB1	%(n)
DQB1*02:01:01	21(7)
DQB1*02:01	79(26)
DQB1*02	100(32)

33 High Labs; 32 labs Low-DQB1	%(n)
DQB1*06:03:01	21(7)
DQB1*06:03	79(26)
DQB1*06	97(31)
*DQB1*03*	3 (1)

13 High Labs; 13 labs Low-DPA1	%(n)
DPA1*01:03:01:03	8 (1)
DPA1*01:03:01	8 (1)
DPA1*01:03	76(10)
*DPA1*01:05*	8 (1)
DPA1*01	100(13)

13 High Labs; 13 labs Low-DPA1	%(n)
DPA1*02:01:01	15(2)
DPA1*02:01	85(11)
DPA1*02	100(13)

28 High Labs; 17 labs Low-DPB1	%(n)
DPB1*01:01:01	25(7)
DPB1*01:01:01G	7 (2)
DPB1*01:01	68(19)
DPB1*01	100(17)

28 High Labs; 17 labs Low-DPB1	%(n)
DPB1*03:01:01	25(7)
DPB1*03:01:01G	11(3)
DPB1*03:01	64(18)
DPB1*03	100(17)

DNA Typing - class I

19 labs High; 25 labs low- A	%(n)
A*01:01:01:01	16(3)
A*01:01:01	11(2)
A*01:01:01G	5 (1)
A*01:01	68(13)
A*01	100(25)

19 labs High; 25 labs low- A	%(n)
A*32:01:01	26(5)
A*32:01	74(14)
A*32	100(25)

18 labs High; 26 labs low- B	%(n)
B*08:01:01	28(5)
B*08:01	72(13)
B*08	100(26)

18 labs High; 26 labs low- B	%(n)
B*44:02:01:01	17(3)
B*44:02:01	11(2)
B*44:02:01G	6 (1)
B*44:02	66(12)
B*44	100(26)

18 labs High; 26 labs low- C	%(n)
C*05:01:01:02	17(3)
C*05:01:01	11(2)
C*05:01	72(13)
C*05	100(26)

18 labs High; 26 labs low- C	%(n)
C*07:01:01:01	16(3)
C*07:01:01	11(2)
C*07:01:01G	6 (1)
C*07:02:01G	6 (1)
C*07:01	61(11)
C*07	100(26)

Table 2: Summary of the 264th B-cell Line Exchange

Ter-528

DNA Typing - class II

33 labs High; 35 labs low-DRB1	%(n)
DRB1*04:01:01	27(9)
DRB1*04:01	73(24)
DRB1*04	100(35)

21 labs High; 24 labs Low-DRB3/4/5	%(n)
DRB3*02:02:01	14(3)
DRB3*02:02:01G	14(3)
DRB3*02:02	72(15)
DRB3*02	83(20)
DRB3*PRESENT	17(4)

24 labs High; 25 labs Low-DQA1	%(n)
DQA1*03:01:01	8 (2)
DQA1*03:01:01G	4 (1)
DQA1*03:01P	4 (1)
DQA1*03:01	83(20)
DQA1*03	100(25)

33 High Labs; 32 labs Low-DQB1	%(n)
DQB1*03:02:01	21(7)
DQB1*03:02	79(26)
DQB1*03(DQ8)	3 (1)
DQB1*03	97(31)

13 High Labs; 13 labs Low-DPA1	%(n)
DPA1*01:03:01:02	8 (1)
DPA1*01:03:01	8 (1)
DPA1*01:03	84(11)
DPA1*01	100(13)

28 High Labs; 16 labs Low-DPB1	%(n)
DPB1*04:01:01:01	4 (1)
DPB1*04:01:01	18(5)
DPB1*04:01:01G	18(5)
DPB1*04:01P	4 (1)
DPB1*04:01	57(16)
DPB1*04(DP401)	50(8)
DPB1*04	50(8)

36 labs High; 35 labs low-DRB1	%(n)
DRB1*13:17	100(36)
DRB1*13	97(34)
*DRB1*12*	3 (1)

21 labs High; 25 labs Low-DRB3/4/5	%(n)
DRB4*01:03:01:01	5 (1)
DRB4*01:01:01G	9 (2)
DRB4*01:03	81(17)
*DRB4*01:01*	5 (1)
DRB4*01	76(19)
DRB4*PRESENT	24(6)

24 labs High; 25 labs Low-DQA1	%(n)
DQA1*04:01:01	8 (2)
DQA1*04:01	92(22)
DQA1*04	100(25)

32 High Labs; 32 labs Low-DQB1	%(n)
DQB1*04:02:01	22(7)
DQB1*04:02	78(25)
DQB1*04	100(32)

28 High Labs; 16 labs Low-DPB1	%(n)
DPB1*04:02:01:02	7 (2)
DPB1*04:02:01	14(4)
DPB1*04:02:01G	18(5)
DPB1*04:02P	4 (1)
DPB1*04:02	57(16)
DPB1*04(DP402)	50(8)
DPB1*04	50(8)

DNA Typing - class I

19 labs High; 25 labs low- A	%(n)
A*02:01:01:01	16(3)
A*02:01:01	16(3)
A*02:01	68(13)
A*02	100(25)

21 labs High; 24 labs low- B	%(n)
B*15:01:01:01	24(5)
B*15:01:01	5 (1)
B*15:01	71(15)
B*15(B62)	4 (1)
B*15	96(23)

20 labs High; 25 labs low- C	%(n)
C*03:03:01	20(4)
C*03:03:01G	10(2)
*C*03:02:01*	5 (1)
C*03:03	65(13)
C*03(Cw9)	4 (1)
C*03	96(24)

19 labs High; 25 labs low- A	%(n)
A*32:01:01	32(6)
A*32:01	68(13)
A*32	100(25)

Table 3a: Individual laboratory results for B-cell #527-Class II															
		Low resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alelles
5488	Adams , Sharon			3*01										SSP SSO SBT	
5462	Arnold , Paula	*03	*13	3*01		*01	*05	*02	*06	*01	*02	*01	*03	SSP SSO SBT RT-PCR	
774	Cecka , J. Michael	*03	*13	3*01		*01	*05	*02	*06	*01	*02	*01	*03	SSP SSO	
8021	Clark , Brendan													SSO	
3632	Colombe , Beth W	*03	*13	3*01		*01	*05	*02	*06	*01	*02	*01	*03	SSP SSO	
5130	Costeas , Paul A.	*03	*13	3*01		*01	*05	*02	*06					SSP SSO	
779	Daniel , Claude	*03	*13	3*01	3*01	*01	*05	*02	*06	*01	*02	*01	*03	SSO	
5219	Daniel , Dolly	*03	*13					*02	*06						
8099	Danish , Adel	*03	*13			*01	*05	*02	*06					SSO	
1108	DeConinck , Marth	*03	*13	3*PRESENT		*01	*05	*02	*06	*01	*02	*01	*03	SSO	DPB1*104
87	Di Paola , Nicholas	*03	*13	3*01	3*01	*01	*05	*02	*06	*01	*02	*01	*03	RT-PCR	
5214	Eckels/CPMC ,	*03 (DR17)	*13	3*01	3*01	*01	*05	*02	*06	*01	*02	*01	*03	SSO	
4079	Fort , Marylise	*03	*13					*02	*06					SSP SSO	
792	Gandhi , Manish	*03	*13	3*01		*01	*05	*02	*06	*01	*02	*01	*03	SSP SSO SBT	
8087	Guerra , Q.F.B. Ell	*03	*13			*01	*05	*02	*06					SSO	
810	Hamdi , Nuha													SSO	
1694	Hesse , Nicole	*03	*13	3*PRESENT				*02	*03					SSP	
8043	Hod , Reut	*03	*13			*01	*05	*02	*06					SSP SSO	
771	Israel , Shoshana	*03	*13					*02	*06					SSP SSO	
794	Jaatinen , Taina	*03	*13	3*01		*01	*05	*02	*06	*01	*02	*01	*03	SSP SSO SBT RT-PCR	
725	Lardy , N.M.	*03	*13	3*PRESENT		*01	*05	*02	*06					SSO	
278	Lee , Jar-How	*03	*13	3*01	3*01	*01	*05	*02	*06	*01	*02	*01	*03		
6649	Lim , Young Ae	*03	*13	3*PRESENT										SSP	
2400	Liu , Chang	*03	*13	3*01		*01	*05	*02	*06			*01	*03	SSP SSO SBT	
731	Loewenthal , Ron	*03	*13			*01	*05	*02	*06					SSO SBT	
206	McAlack , Robert	*03	*13	3*01		*01	*05	*02	*06	*01	*02	*01	*03	SSO	
8042	Muncher , Liora	*03	*13	3*01	3*01	NT	NT	*02	*06	NT	NT	NT	NT	SSP SSO	
2847	Murase , Junko	*03	*13											SSO	
54	Pancoska , Carol	*03	*13	3*01	3*01	*01	*05	*02	*06	*01	*02	*01	*03	SSO	
3966	Permpikul , Vejbae													SSP	
8001	Rao , Prakash					*01	*05							SSP SSO	
3519	Renac , Virginie	*03	*13					*02	*06			*01	*03	SSP SBT	
793	Rubocki , Ronald	*03	*13	3*01		*01	*05	*02	*06			*01	*03	SSP	
4251	Schiller , Jennifer	*03	*13	3*01	3*01	*01	*05	*02	*06	*01	*02	*01	*03	SSO SBT	
8068	Shanmugam , Hen	*03	*13	3*01				*02	*06					SSO	
8029	Tarigopula , Anil	*03	*13			*01	*05	*02	*06					SSO	
747	Tiercy , Jean-Marie	*03	*13	3*01		*01	*05	*02	*06			*01	*03	SSP SSO SBT	
5451	Tilanus , Marcel G.	*03	*13	3*01	3*01	*01	*05	*02	*06					SSO SBT	
5642	Varnavidou-Nicolai	*03	*13	3*PRESENT				*02	*06					SSP	
8052	Yanina Marcos , C	*03	*13											SSO	

Table 3b: Individual laboratory results for B-cell #527-Class II

		High resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alelles
5488	Adams, Sharon	*03:01:01	*13:06			*01:03	*05:01	*02:01:01	*06:03:01			*01:01:01	*03:01:01	SSP SSO SBT	
5462	Arnold, Paula	*03:01	*13:06	3*01:01		*01:03	*05:01	*02:01	*06:03	*01:03	*02:01	*01:01	*03:01	SSP SSO SBT RT-PCR	DRB3*01:14/*01:16, DQA1*01:10, DPA1*01:13
5133	Askar, Medhat	*03:01:01	*13:06	3*01:01:02		*01:03:01	*05:01:01	*02:01:01	*06:03:01	*01:03:01	*02:01:02	*01:01:01	*03:01:01	NGS	
4492	Caillat-Zucman, S	*03:01:01	*13:06	3*01:01		*01:03	*05:01	*02:01:01	*06:03:01	*01:03	*02:01	*01:01:01	*03:01:01	SSO NGS	DPA1*01:13, DQA1*01:10
774	Cecka, J. Michael	*03:01	*13:06	3*01:01		*01:03	*05:01	*02:01	*06:03	*01:03	*02:01	*01:01	*03:01	SSP SSO	DRB1*03:68N/ *03:83/*03:100/ *03:104/*03:107/ *03:108/*03:112, DRB3*01:16, DQB1*02:07/*02:14/*02:27, DQB1*06:41/*06:90/*06:110/*06:148, DPB1*417:01/*222:01/ *329:01
9916	Charlton, Ronald K	*03:01:01	*13:06	3*01:01				*02:01:01	*06:03:01			*01:01:01	*03:01:01	SSP SBT	
3224	Chen, Dong-Feng	*03:01	*13:06	3*01:01		*01:03	*05:01	*02:01	*06:03	*01:03	*02:01	*01:01	*03:01	SSP SBT	DRB3*01:16
8021	Clark, Brendan	*03:01	*13:06	3*01:01		*01:03	*05:01	*02:01	*06:03	*01:03	*02:01	*01:01	*03:01	SSO	
3632	Colombe, Beth W.	*03:01	*13:06	3*01:01		*01:03	*05:01	*02:01	*06:03	*01:03	*02:01	*01:01	*03:01	SSP SSO	
5130	Costeas, Paul A.	*03:01	*13:06	3*01:01		*01:03	*05:01	*02:01	*06:03					SSP SSO	DQB1*06:44
779	Daniel, Claude	*03:01	*13:06			*01:03	*05:01	*02:01	*06:03	*01:03	*02:01	*01:01	*03:01:01G	SSO	
5214	Eckels/CPMC ,		*13:06									*01:01:01G	*03:01:01G	SSO	
3135	Enczmann, J	*03:01	*13:06	3*01:01				*02:01	*06:03			*01:01	*03:01:01		
762	Fischer, Gottfried	*03:01	*13:06	3*01:01		*01:03	*05:01	*02:01	*06:03			*01:01	*03:01	SSP SSO SBT	DRB3*01:16, DPB1*104:01
4079	Fort, Marylise											*01:01	*03:01	SSP SSO	
792	Gandhi, Manish	*03:01	*13:06			*01:03	*05:01	*02:01	*06:03			*01:01	*03:01	SSP SSO SBT	
810	Hamdi, Nuha	*03:01	*13:06	3*01:01	3*01:02	*01:03	*05:01	*02:01	*06:03					SSO	
8043	Hod, Reut	*03:01	*13:06			*01:03	*05:01	*02:01	*06:03					SSP SSO	
2344	Hurley, Hartzman&	*03:01:01:01	*13:06			*01:03:01:01	*05:01:01:01	*02:01:01	*06:03:01	*01:03:01:03	*02:01:02	*01:01:01	*03:01:01	NGS	DQA1*01:03:01:02, DQA1*05:01:01:02, DPB1*104:01
771	Israel, Shoshana	*03:01	*13:06					*02:01	*06:03					SSP SSO	
794	Jaatinen, Taina	*03:01	*13:06	3*01:01		*01:03	*05:01	*02:01	*06:03	*01:03	*02:01	*01:01	*03:01	SSP SSO SBT RT-PCR	DRB1*03:68N/ *03:83/*03:104, DQA1*01:10, DPB1*417:01, DPB1*351:01
8086	Keming, Du	*03:01	*13:06			*01:03	*05:01	*02:01	*06:03	*01:03	*02:01	*01:01	*03:01	SSP SSO SBT	DPB1*105:01, DPB1*126:01
4337	Kim, Tai-Gyu	*03:01	*13:06					*02:01	*06:03			*01:01	*03:01	SBT	
278	Lee, Jar-How	*03:01	*13:06	3*01:01	3*01:01	*01:03	*05:01	*02:01	*06:03	*01:05	*02:01	*01:01	*03:01		
2400	Liu, Chang	*03:01	*13:06			*01:03	*05:01	*02:01	*06:03			*01:01:01G	*03:01:01G	SSP SSO SBT	
731	Loewenthal , Ron	*03:01:01G	*13:06					*02:01:01	*06:03:01					SSO SBT	
8042	Muncher, Liora	*03:01	*13:06	3*01:01	3*01:01	NT	NT	*02:01	*06:03	NT	NT	NT	NT	SSP SSO	

Table 3b: Individual laboratory results for B-cell #527-Class II															
		High resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alelles
3966	Permpikul, Vejbae	*03:01	*13:06	3*01:01	3*01:01			*02:01	*06:03					SSP	
8001	Rao, Prakash	*03:01	*13:06	3*01:01				*02:01	*06:03			*01:01	*03:01	SSP SSO	DPB1*104:01
3753	Reed, Elaine F.	*03:01:01	*13:06	3*01:01		*01:03	*05:01	*02:01:01	*06:03:01	*01:03	*02:01	*01:01:01	*03:01:01	SSO NGS	DRB3*01:04, DQA1*01:10, DPA1*01:13
3519	Renac, Virginie	*03:01	*13:06	3*01:01		*01:03	*05:01	*02:01	*06:03			*01:01	*03:01	SSP SBT	
793	Rubocki, Ronald					*01:03	*05:01					*01:01	*03:01	SSP	
4251	Schiller, Jennifer	*03:01	*13:06					*02:01	*06:03			*01:01	*03:01	SSO SBT	
747	Tiercy, Jean-Marie	*03:01:01G	*13:06	3*01:01		*01:03	*05:01	*02:01	*06:03			*01:01:01	*03:01	SSP SSO SBT	DQA1*01:10
5451	Tilanus, Marcel G.	*03:01:01	*13:06											SSO SBT	
5642	Varnavidou-Nicola	*03:01	*13:06					*02:01	*06:03					SSP	
8052	Yanina Marcos , C		*13:06											SSO	
3511	Zeevi, Adriana	*03:01	*13:06	3*01:01		*01:03	*05:01	*02:01	*06:03			*01:01	*03:01	SSP SSO	

Table 4: Individual laboratory results for B-cell #527-Class II									
	Serology								
CTR	DIRNAME	DR13	DR17	DR52	DQ1	DQ2		OTH1	OTH2
910	Hahn,Amy B.	+	+	+	+	+			
4908	Kvam,Vonnett	+	+	+	+	+			

Table 5: Individual laboratory results for B-cell #527-Class I															
		Low resolution						High resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
5488	Adams , Sharon			*08	*44	*05	*07	*01:01:01	*32:01:01					SSP SSO SBT	A*01:100/*01:145, A*32:62/*32:30, B*08:01/*08:50/*08:71+, B*44:02/*44:19N/*44:49+, C*05:01/*05:04:01/*05:23+, C*07:01/*07:06/*07:18+
5462	Arnold , Paula	NT												SSP SSO SBT RT-PCR	
5133	Askar , Medhat							*01:01:01:01	*32:01:01	*08:01:01	*44:02:01:01	*05:01:01:02	*07:01:01:01	NGS	
4492	Caillat-Zucman , So							*01:01:01:01	*32:01:01	*08:01:01	*44:02:01:01	*05:01:01:02	*07:01:01:01	SSO NGS	
774	Cecka , J. Michael	*01	*32	*08	*44	*05	*07							SSP SSO	
9916	Charlton , Ronald K.							*01:01	*32:01	*08:01:01	*44:02:01	*05:01:01	*07:01:01	SSP SBT	A*01:04N, A*01:32, A*32:53
3224	Chen , Dong-Feng							*01:01	*32:01	*08:01	*44:02	*05:01	*07:01:01G	SSP SBT	
8021	Clark , Brendan	*01	*32	*08	*44	*05	*07							SSO	
5130	Costeas , Paul A.	*01	*32	*08	*44	*05	*07	*01:01	*32:01	*08:01	*44:02	*05:01	*07:01	SSP SSO	
779	Daniel , Claude	*01	*32	*08	*44	*05	*07							SSO	
5219	Daniel , Dolly	*01	*32	*08	*44	*05	*07								
8099	Danish , Adel	*01	*32	*08	*44	*05	*07							SSO	
1108	DeConinck , Martha	*01	*32	*08	*44	*05	*07							SSO	
87	Di Paola , Nicholas	*01	*32	*08	*44	*05	*07							RT-PCR	
5214	Eckels/CPMC ,	*01	*32	*08	*44	*05	*07							SSO	
3135	Enczmann , J							*01:01	*32:01	*08:01	*44:02	*05:01	*07:01		C*07:06/*07:18
8087	Guerra , Q.F.B. Elba	*01	*32	*08	*44	*05	*07							SSO	
792	Gandhi , Manish	*01	*32	*08	*44	*05	*07	*01:01	*32:01	*08:01	*44:02	*05:01	*07:01	SSP SSO SBT	
810	Hamdi , Nuha							*01:01	*32:01	*08:01	*44:02	*05:01	*07:01	SSO	
1694	Hesse , Nicole	*01	*32	*08	*44	*05	*07							SSP	
2344	Hurley , Hartzman&							*01:01:01:01	*32:01:01	*08:01:01	*44:02:01:01	*05:01:01:02	*07:01:01:01	NGS	
794	Jaatinen , Taina	*01	*32	*08	*44	*05	*07	*01:01	*32:01	*08:01	*44:02	*05:01	*07:01	SSP SSO SBT RT-PCR	C*07:06/*07:18/*07:343
8086	Keming , Du							*01:01	*32:01	*08:01	*44:02	*05:01	*07:01	SSP SSO SBT	
4337	Kim , Tai-Gyu							*01:01	*32:01	*08:01	*44:02	*05:01	*07:01	SBT	
278	Lee , Jar-How	*01	*32	*08	*44	*05	*07	*01:01	*32:01	*08:01	*44:02	*05:01	*07:01		
2400	Liu , Chang	*01	*32	*08	*44	*05	*07	*01:01:01G	*32:01	*08:01	*44:02:01G	*05:01	*07:02:01G	SSP SSO SBT	
206	McAlack , Robert	*01	*32	*08	*44	*05	*07							SSO	
8042	Muncher , Liora	*01	*32	*08	*44	*05	*07	*01:01	*32:01	*08:01	*44:02	*05:01	*07:01	SSP SSO	
2847	Murase , Junko	*01	*32	*08	*44	*05	*07							SSO	
54	Pancoska , Carol	*01	*32	*08	*44	*05	*07							SSO	
3966	Permpikul , Vejbaes	*01	*32	*08	*44	*05	*07							SSP	
3753	Reed , Elaine F.							*01:01:01	*32:01:01	*08:01:01	*44:02:01	*05:01:01	*07:01:01	SSO NGS	
3519	Renac , Virginie	*01	*32	*08	*44	*05	*07	*01:01	*32:01	*08:01	*44:02	*05:01	*07:01	SSP SBT	
4251	Schiller , Jennifer	*01	*32	*08	*44	*05	*07	*01:01	*32:01	*08:01	*44:02	*05:01	*07:01	SSO SBT	
8068	Shanmugam , Hema	*01	*32	*08	*44	*05	*07							SSO	
8029	Tarigopula , Anil	*01	*32	*08	*44	*05	*07							SSO	
8052	Yanina Marcos , Cir	*01	*32	*08	*44	*05	*07							SSO	

Table 6a: Individual laboratory results for B-cell #528-Class II

		Low resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alelles
5488	Adams , Sharon			3*02	4*01									SSP SSO SBT	
5462	Arnold , Paula	*04	*13	3*02	4*01	*03	*04	*03	*04	*01	*01	*04(DP401)	*04(DP402)	SSP SSO SBT RT-PCR	
774	Cecka , J. Michael	*04	*13	3*02	4*01	*03	*04	*03	*04	*01		*04(DP401)	*04(DP402)	SSP SSO	
8021	Clark , Brendan													SSO	
3632	Colombe , Beth W.	*04	*13	3*02	4*01	*03	*04	*03	*04	*01		*04	*04	SSP SSO	
5130	Costeas , Paul A.	*04	*13	3*02	4*01	*03	*04	*03	*04					SSP SSO	
779	Daniel , Claude	*04	*13	3*02	4*01	*03	*04	*03	*04	*01	*01	*04	*04	SSO	
5219	Daniel , Dolly	*04	*13					*03	*04						
8099	Danish , Adel	*04	*13			*03	*04	*03	*04					SSO	
1108	DeConinck , Martha	*04	*13		4*PRESENT	*03	*04	*03	*04	*01	*01	*04(DP401)	*04(DP402)	SSO	DQB1*03, DPB1*105
87	Di Paola , Nicholas	*04	*13	3*02	4*01	*03	*04	*03	*04	*01	*01	*04(DP401)	*04(DP402)	RT-PCR	
5214	Eckels/CPMC ,	*04	*13	3*02	4*01	*03	*04	*03 (DQ8)	*04	*01	*01	*04(DP401)	*04(DP402)	SSO	
4079	Fort , Marylise	*04	*13					*03	*04					SSP SSO	
792	Gandhi , Manish	*04	*13	3*02	4*01	*03	*04	*03	*04	*01		*04	*04	SSP SSO SBT	
8087	Guerra , Q.F.B. Elba	*04	*13			*03	*04	*03	*04					SSO	
810	Hamdi , Nuha													SSO	
1694	Hesse , Nicole	*04	*13	3*PRESENT	4*PRESENT			*03	*04					SSP	
8043	Hod , Reut	*04	*13			*03	*04	*03	*04					SSP SSO	
771	Israel , Shoshana	*04	*13					*03	*04					SSP SSO	
794	Jaatinen , Taina	*04	*13	3*02	4*01	*03	*04	*03	*04	*01		*04		SSP SSO SBT RT-PCR	
725	Lardy , N.M.	*04	*13	3*PRESENT	4*PRESENT	*03	*04	*03	*04					SSO	
278	Lee , Jar-How	*04	*13	3*02	4*01	*03	*04	*03	*04	*01	*01	*04	*04		
6649	Lim , Young Ae	*04	*12	3*PRESENT	4*PRESENT									SSP	
2400	Liu , Chang	*04	*13	3*02	4*01	*03	*04	*03	*04			*04	*04	SSP SSO SBT	
731	Loewenthal , Ron	*04	*13			*03	*04	*03	*04					SSO SBT	
206	McAlack , Robert	*04	*13	3*02	4*01	*03	*04	*03	*04	*01	*01	*04	*04	SSO	
8042	Muncher , Liora	*04	*13	3*02	4*01	NT	NT	*03	*04	NT	NT	NT	NT	SSP SSO	
2847	Murase , Junko	*04	*13											SSO	
54	Pancoska , Carol	*04	*13	3*02	4*01	*03	*04	*03	*04	*01		*04		SSO	
3966	Permpikul , Vejbaes													SSP	
8001	Rao , Prakash					*03	*04							SSP SSO	
3519	Renac , Virginie	*04	*13					*03	*04			*04(DP401)	*04(DP402)	SSP SBT	
793	Rubocki , Ronald	*04	*13	3*02	4*PRESENT	*03	*04	*03	*04					SSP	
4251	Schiller , Jennifer	*04	*13	3*02	4*01	*03	*04	*03	*04	*01	*01	*04(DP401)	*04(DP402)	SSO SBT	
8068	Shanmugam , Hema	*04	*13	3*02	4*01			*03	*04					SSO	
8029	Tarigopula , Anil	*04	*13			*03	*04	*03	*04					SSO	
747	Tiercy , Jean-Marie	*04	*13	3*02	4*01	*03	*04	*03	*04			*04(DP401)	*04(DP402)	SSP SSO SBT	
5451	Tilanus , Marcel G.J	*04	*13	3*02	4*01	*03	*04	*03	*04					SSO SBT	
5642	Varnavidou-Nicolaid	*04	*13	3*PRESENT	4*PRESENT			*03	*04					SSP	
8052	Yanina Marcos , Cin	*04	*13											SSO	

Table 6b: Individual laboratory results for B-cell #528-Class II

		High resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alelles
5488	Adams , Sharon	*04:01:01	*13:17			*03:01	*04:01	*03:02:01	*04:02:01			*04:01:01	*04:02:01	SSP SSO SBT	DQB1*03:05:03, DQB1*04:03:02, DPB1*105:01, DPB1*126:01
5462	Arnold , Paula	*04:01	*13:17	3*02:02:01G	4*01:03	*03:01P	*04:01	*03:02	*04:02	*01:03	*01:03	*04:01P	*04:02P	SSP SSO SBT RT-PCR	DPB1*105:01, DPB1*126:01, DPA1*01:13, DQA1*03:02/*03:03, DRB3*02:28, DRB3*02:29N
5133	Askar , Medhat	*04:01:01	*13:17	3*02:02:01	4*01:03:01:01	*03:01:01	*04:01:01	*03:02:01	*04:02:01	*01:03:01		*04:01:01	*04:02:01	NGS	
4492	Caillat-Zucman ,	*04:01:01	*13:17	3*02:02	4*01:03	*03:01	*04:01	*03:02:01	*04:02:01	*01:03	*01:03	*04:01:01	*04:02:01:02	SSO NGS	DQA1*03:02/*03:03, DPA1*01:13, DPB1*105:01, DPB1*126:01
774	Cecka , J. Michae	*04:01	*13:17	3*02:02	4*01:03	*03:01	*04:01	*03:02	*04:02	*01:03		*04:01	*04:02	SSP SSO	DRB1*04:171/*04:175, DRB3*02:28/*02:29N, DRB4*01:09, DQB1*03:106, DQB1*04:11/*04:13 /*04:18/*04:19/*04:21 /*04:22/*04:23, DPA1*01:13, DPB1*126:01, DPB1*105:01
9916	Charlton , Ronald	*04:01:01	*13:17	3*02:02	4*01:03			*03:02:01	*04:02:01			*04:01	*04:02	SSP SBT	DRB4*01:09, DPB1*105:01, DPB1*126:01
3224	Chen , Dong-Fen	*04:01	*13:17	3*02:02:01G	4*01:01:01G	*03:01	*04:01	*03:02	*04:02	*01:03		*04:01	*04:02	SSP SBT	DPB1*144:01
8021	Clark , Brendan	*04:01	*13:17	3*02:02	4*01:03	*03:01	*04:01	*03:02	*04:02	*01:03		*04:01	*04:02	SSO	
3632	Colombe , Beth W	*04:01	*13:17	3*02:02	4*01:03	*03:01	*04:01	*03:02	*04:02	*01:03		*04:01	*04:02	SSP SSO	DPB1*105:01, DPB1*126:01
5130	Costeas , Paul A.	*04:01	*13:17	3*02:02	4*01:03	*03:01	*04:01	*03:02	*04:02					SSP SSO	
779	Daniel , Claude		*13:17			*03:01	*04:01	*03:02		*01:03	*01:03	*04:01:01G	*04:02:01G	SSO	
5214	Eckels/CPMC ,		*13:17									*04:01:01G	*04:02:01G	SSO	
3135	Enczmann , J	*04:01	*13:17	3*02:02:01	4*01:03			*03:02	*04:02			*04:01:01	*04:02:01		
762	Fischer , Gottfried	*04:01	*13:17	3*02:02	4*01:03	*03:01	*04:01	*03:02	*04:02			*04:01	*04:02	SSP SSO SBT	DRB3*02:28, DQB1*04:13, DPB1*126:01, DPB1*105:01, DRB3*02:12, DRB3*02:29N
4079	Fort , Marylise											*04:01	*04:02	SSP SSO	
792	Gandhi , Manish	*04:01	*13:17			*03:01	*04:01	*03:02	*04:02			*04:01	*04:02	SSP SSO SBT	DPB1*126:01, DPB1*105:01
810	Hamdi , Nuha	*04:01	*13:17	3*02:02:01	4*01:01	*03:01	*04:01	*03:02	*04:02					SSO	DRB3*02:02
8043	Hod , Reut	*04:01	*13:17			*03:01	*04:01	*03:02	*04:02					SSP SSO	

Table 6b: Individual laboratory results for B-cell #528-Class II

		High resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alelles
2344	Hurley , Hartzmar	*04:01:01	*13:17			*03:01:01	*04:01:01	*03:02:01	*04:02:01	*01:03:01:02	*01:03:01:05	*04:01:01:01	*04:02:01:02	NGS	DPB1* 04:01:01:02, DPB1*105:01, DPB1*126:01
771	Israel , Shoshana	*04:01	*13:17					*03:02	*04:02					SSP SSO	
794	Jaatinen , Taina	*04:01	*13:17	3*02:02	4*01:03	*03:01	*04:01	*03:02	*04:02	*01:03		*04:01	*04:02	SSP SSO SBT RT-PCR	DQA1*03:02/*03:03, DPB1*126:01, DPB1*350:01, DPB1*105:01
8086	Keming , Du	*04:01	*13:17			*03:01	*04:01	*03:02	*04:02	*01:03	*01:03	*04:01	*04:02	SSP SSO SBT	DPB1*105:01, DPB1*126:01
4337	Kim , Tai-Gyu	*04:01	*13:17					*03:02	*04:02			*04:01	*04:02	SBT	
278	Lee , Jar-How	*04:01	*13:17	3*02:02	4*01:03	*03:01	*04:01	*03:02	*04:02	*01:03	*01:03	*04:01	*04:02		
2400	Liu , Chang	*04:01	*13:17			*03:01	*04:01	*03:02	*04:02			*04:01:01G	*04:02:01G	SSP SSO SBT	
731	Loewenthal , Ror	*04:01:01	*13:17					*03:02:01	*04:02:01					SSO SBT	DQB1*04:04
8042	Muncher , Liora	*04:01	*13:17	3*02:02	4*01:03	NT	NT	*03:02	*04:02	NT	NT	NT	NT	SSP SSO	
3966	Permpikul , Vejba	*04:01	*13:17	3*02:02	4*01:03			*03:02	*04:02					SSP	
8001	Rao , Prakash	*04:01	*13:17	3*02:02	4*01:03			*03:02	*04:02			*04:01	*04:02	SSP SSO	
3753	Reed , Elaine F.	*04:01:01	*13:17	3*02:02:01G	4*01:01:01G	*03:01:01G	*04:01	*03:02:01	*04:02:01	*01:03	*01:03	*04:01:01	*04:02:01	SSO NGS	DPA1*01:13, DPB1*126:01, DPB1*105:01
3519	Renac , Virginie	*04:01	*13:17	3*02:02	4*01:03	*03:01	*04:01	*03:02	*04:02			*04:01	*04:02	SSP SBT	DPB1*105:01, DPB1*126:01
793	Rubocki , Ronald					*03:01	*04:01					*04:01:01G	*04:02:01G	SSP	
4251	Schiller , Jennifer	*04:01	*13:17					*03:02	*04:02			*04:01:01G	*04:02:01G	SSO SBT	
747	Tiercy , Jean-Mar	*04:01:01	*13:17	3*02:02	4*01:03	*03:01	*04:01	*03:02	*04:02			*04:01	*04:02	SSP SSO SBT	DQA1*03:02/ *03:03
5451	Tilanus , Marcel C	*04:01:01	*13:17											SSO SBT	
5642	Varnavidou-Nicol	*04:01	*13:17					*03:02	*04:02					SSP	
8052	Yanina Marcos , C		*13:17											SSO	
3511	Zeevi , Adriana	*04:01	*13:17	3*02:02	4*01:03	*03:01	*04:01	*03:02	*04:02			*04:01	*04:02	SSP SSO	

Table 7: Individual laboratory results for B-cell #528-Class II

	Serology									
CTR	DIRNAME	DR4	DR13	DR52	DR53	DQ8	DQ4		OTH1	OTH2
910	Hahn,Amy B.	+			+	+	+		DR8	
4908	Kvam,Vonnett	+	+	+	+	+	+			

Table 8: Individual laboratory results for B-cell #528-Class I															
		Low resolution						High resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
5488	Adams , Sharon							*02:01:01	*32:01:01	*15:01:01:01		*03:03:01G		SSP SSO SBT	
5462	Arnold , Paula	NT												SSP SSO SBT RT-PCR	
5133	Askar , Medhat							*02:01:01:01	*32:01:01	*15:01:01:01		*03:03:01		NGS	
4492	Caillat-Zucman , So							*02:01:01:01	*32:01:01	*15:01:01:01	*15:01:01	*03:03:01	*03:03:01	SSO NGS	
774	Cecka , J. Michael	*02	*32	*15		*03								SSP SSO	
8021	Clark , Brendan	*02	*32	*15		*03								SSO	
9916	Charlton , Ronald K							*02:01:01	*32:01:01	*15:01:01:01		*03:02:01		SSP SBT	
3224	Chen , Dong-Feng							*02:01	*32:01	*15:01		*03:03		SSP SBT	
5130	Costeas , Paul A.	*02	*32	*15	*15	*03	*03	*02:01	*32:01	*15:01	*15:01	*03:03	*03:03	SSP SSO	A*02:74
779	Daniel , Claude	*02	*32	*15	*15	*03				*15:01	*15:01	*03:03		SSO	
5219	Daniel , Dolly	*02	*32	*15	*15	*03	*03								
8099	Danish , Adel	*02	*32	*15	*15	*03	*03							SSO	
1108	DeConinck , Martha	*02	*32	*15	*15	*03	*03							SSO	
87	Di Paola , Nicholas	*02	*32	*15	*15	*03	*03							RT-PCR	
5214	Eckels/CPMC ,	*02	*32	*15 (B62)	*15 (B62)	*03 (Cw9)	*03 (Cw9)							SSO	
3135	Enczmann , J							*02:01	*32:01	*15:01	*15:01	*03:03	*03:03		A*02:01L
792	Gandhi , Manish	*02	*32	*15		*03		*02:01	*32:01	*15:01		*03:03		SSP SSO SBT	
8087	Guerra , Q.F.B. Elba	*02	*32	*15	*15	*03	*03							SSO	
810	Hamdi , Nuha							*02:01	*32:01	*15:01	*15:01	*03:03	*03:03	SSO	
1694	Hesse , Nicole	*02	*32	*15		*03								SSP	
2344	Hurley , Hartzman&							*02:01:01:01	*32:01:01	*15:01:01:01	*15:01:01:01	*03:03:01	*03:03:01	NGS	
794	Jaatinen , Taina	*02	*32	*15		*03		*02:01	*32:01	*15:01		*03:03		SSP SSO SBT RT-PCR	C*03:227
8086	Keming , Du							*02:01	*32:01	*15:01	*15:01	*03:03	*03:03	SSP SSO SBT	
4337	Kim , Tai-Gyu							*02:01	*32:01	*15:01	*15:01	*03:03	*03:03	SBT	
278	Lee , Jar-How	*02	*32	*15	*15	*03	*03	*02:01	*32:01	*15:01	*15:01	*03:03	*03:03		
2400	Liu , Chang	*02	*32	*15		*03		*02:01	*32:01	*15:01		*03:03:01G		SSP SSO SBT	
206	McAlack , Robert	*02	*32	*15		*03	*03							SSO	
8042	Muncher , Liora	*02	*32	*15	*15	*03	*03	*02:01	*32:01	*15:01	*15:01	*03:03	*03:03	SSP SSO	
2847	Murase , Junko	*02	*32	*15		*03								SSO	
54	Pancoska , Carol	*02	*32	*15		*03								SSO	
3966	Permpikul , Vejbaes	*02	*32			*03	*03			*15:01	*15:01			SSP	
3753	Reed , Elaine F.							*02:01:01	*32:01:01	*15:01:01	*15:01:01	*03:03:01	*03:03:01	SSO NGS	
3519	Renac , Virginie	*02	*32	*15		*03		*02:01	*32:01	*15:01		*03:03		SSP SBT	
4251	Schiller , Jennifer	*02	*32	*15	*15	*03	*03	*02:01	*32:01	*15:01	*15:01	*03:03	*03:03	SSO SBT	
8068	Shanmugam , Hema	*02	*32	*15	*15	*03	*03							SSO	
8029	Tarigopula , Anil	*02	*32	*15	*15	*03	*03							SSO	
8052	Yanina Marcos , Cin	*02	*32	*15	*15	*03	*03							SSO	

CELL EXCHANGE #393

The results for Cell Exchange #393 are summarized in Table 9 and Table 10. Molecular typing results for individual laboratories are listed in Tables 11-14 for each sample and individual serology results for each sample are listed in Table 15.

Cell 1569. The consensus type for this sample from a Filipino donor is A*11:01(A11)-A*11:02-B*15:35(B62)-B*27:04(B27)-C*07:02(Cw7)-C*12:02. The likely class I associations in this cell are A*11:01-B*15:35-C*07:02 and A*11:02-B*27:04-C*12:02, observed exclusively in Asians, with respective frequencies of HF=0.00094 and 0.00341. A*11:01-B*15:35-C*07:02 was observed in previous exchange cells, cell 1005 (same as cell 1261 and 1319), cell 1049, cell 1347 (same as cell 1372, 1432, and 1544), and cell 1488, all from Filipino donors.

Two subtypes of A*11 were present in this cell, A*11:01 (100%) and A*11:02 (94%). A*11:01:01 was assigned by 6 labs and A*11:02:01 by 5 labs. A11 (100%) was reported by serology, with 1 lab reporting A11.1 and A11.2. B*15:35 and B*27:04 were each assigned in complete consensus. B*27:04:01 was reported by 6 labs. B62 (91%) and B27 (100%) were the serological types. Reese noted the reactivity of B27 in this cell was short.

Cell 1570. The consensus type for this sample from a Korean donor is A*02:06(A2)-A*24:02(A24)-B*54:01(B54)-C*01:02(Cw1). The likely class I associations in this cell are A*02:06-B*54:01-C*01:02 and A*24:02-B*54:01-C*01:02, with respective frequencies of HF=0.00205 and HF=0.01025, in Asians. The A*02:06-B*54:01-C*01:02 association in this cell was observed in 2 previous exchange cells, also of Korean descent, cell 984 and cell 1250.

A*02:06 and A*24:02 were each assigned in complete consensus by labs reporting at high resolution. A*02:06:01 was assigned by 5 labs. A2 (100%) and A24 (100%) were reported by serology. This cell was reported as homozygous for B*54:01 (100%), with 5 labs assigning B*54:01:01. By serology, B54 (71%) was assigned. B22 was reported by 3 labs, and B55 was misassigned by 2 labs.

References:

1. Marcos CY, Fernández-Viña MA, Lázaro AM, et al. Novel HLA-A and HLA-B alleles in South American Indians. Tissue Antigens 1999:53:476-485.

Cell 1571. The consensus type for this sample from a Chinese donor is A*11:01(A11)-A*33:03(A33)-B*15:25(B62)-B*58:01(B58)-C*03:02(Cw3)-C*04:03(Cw4). One likely association in this cell is A*33:03-B*58:01-C*03:02, the most common association observed in Asians, with HF=0.04458. The other likely association present is A*11:01-B*15:25-C*04:03, observed exclusively in Asians, with HF=0.00206. A*11:01-B*15:25-C*04:03 was examined in 2 other exchange cells, cell 1360 and cell 1465, also from Asian individuals.

A*11:01 and A*33:03 were reported by 100% and 94%, respectively, with 5 labs assigning A*11:01:01 and A*33:03:01. A11 (100%) and A33 (100%) were assigned by serology. B*15:25 (90%) and B*58:01 (100%) were the reported B-locus types, with 5 labs reporting B*15:25:01 and B*58:01:01. B62 (95%) and B58 (79%) were reported by serology. Claas noted B57 and B58 were indistinguishable in the presence of B62. B17 was reported by 4 labs.

Cell 1572. The consensus type for this sample from a Hispanic donor is A*02:01(A2)-A*68:01(A68)-B*35:21(B35)-B*39:05(B39)-C*07:02(Cw7)-C*15:02. One likely association in this cell is A*68:01-B*35:21, observed in Ter-109, a reference cell for B*35:21 (1). The other likely association may then be A*02:01-B*39:05, observed exclusively in Hispanics, with HF=0.00129.

B*35:21 was well assigned by 95% of labs reporting at high resolution. B*35:21 was found to have originated in individuals from the Terena Tribe in Brazil and shown to have “a hybrid sequence between B*3501 and B*52:01” (1). This is the first time B*35:21 was typed in the exchange. By serology, B35 was reported by 83%, with Reese noting the reactivity of B35 in this cell was short. B*39:05 was reported as the second B-locus type, with 5 labs reporting B*39:05:01. B39 (94%) was reported by serology. A*02:01 (100%) and A*68:01 (100%) were reported as the A-locus types. A2 (100%) and A68 (67%) were detected by serology. The low assignment of A68 may be due to the presence of A2. Claas noted in the presence of A2, A68 and A69 were indistinguishable by serology. A28 was reported by 33%.

Table 9. Summary of the 393rd Cell Exchange (Cell #1569-1572)

DNA typing

Cell 1569	
26 low/17 high labs - A	%(n)
A*11:01:01	35(6)
A*11:01	65(11)
A*11	100(26)
26 low/17 high labs - A	%(n)
A*11:02:01	29(5)
A*11:02:01G	6 (1)
A*11:02P	6 (1)
A*11:02	53(9)
*A*11:01*	6 (1)
26 low/21 high labs - B	%(n)
B*15:35	100(21)
B*15(B62)	8 (2)
B*15	92(24)
26 low/19 high labs - B	%(n)
B*27:04:01	32(6)
B*27:04	68(13)
B*27	100(26)
25 low/19 high Labs - C	%(n)
C*07:02:01:01	11(2)
C*07:02:01	11(2)
C*07:02:01G	11(2)
C*07:02	68(13)
C*07	100(25)
25 low/18 high Labs - C	%(n)
C*12:02:02	22(4)
C*12:02:01G	6 (1)
C*12:02	72(13)
C*12	100(25)

Cell 1570	
25 low/18 high labs - A	%(n)
A*02:06:01	28(5)
A*02:06	72(13)
A*02	100(25)
26 low/17 high labs - A	%(n)
A*24:02:01:01	6 (1)
A*24:02:01	12(2)
A*24:02:01G	6 (1)
A*24:02	76(13)
A*24	100(26)
25 low/17 high labs - B	%(n)
B*54:01:01	29(5)
B*54:01	71(12)
B*54	100(25)
24 low/17 high Labs - C	%(n)
C*01:02:01	23(4)
C*01:02:01G	12(2)
C*01:02	65(11)
C*01	100(24)

Cell 1571	
25 low/17 high labs - A	%(n)
A*11:01:01	29(5)
A*11:01	71(12)
A*11	100(25)
25 low/17 high labs - A	%(n)
A*33:03:01	29(5)
A*33:03	65(11)
*A*33:01*	6 (1)
A*33	100(25)
25 low/20 high labs - B	%(n)
B*15:25:01	25(5)
B*15:25:01G	5 (1)
B*15:25	60(12)
B*15:20/25+	5 (1)
*B*15:02*	5 (1)
B*15(B62)	8 (2)
B*15	92(23)
25 low/17 high labs - B	%(n)
B*58:01:01	29(5)
B*58:01	71(12)
B*58	100(25)
24 low/19 high Labs - C	%(n)
C*03:02:02:01	11(2)
C*03:02:02	11(2)
C*03:02:01G	11(2)
C*03:02	68(13)
C*03(Cw10)	8 (2)
C*03	92(22)
24 low/19 high Labs - C	%(n)
C*04:03:01	26(5)
C*04:03	74(14)
C*04	100(24)

Cell 1572	
25 low/16 high labs - A	%(n)
A*02:01:01:01	13(2)
A*02:01:01	13(2)
A*02:01	75(12)
A*02	100(25)
25 low/16 high labs - A	%(n)
A*68:01:02:01	12(2)
A*68:01 :02	13(2)
A*68:01:02G	6 (1)
A*68:01	69(11)
A*68	100(25)
25 low/18 high labs - B	%(n)
B*35:21	94(17)
*B*35:11*	6 (1)
B*35	100(25)
25 low/17 high labs - B	%(n)
B*39:05:01	29(5)
B*39:05	65(11)
*B*39:01*	6 (1)
B*39	100(25)
24 low/16 high Labs - C	%(n)
C*07:02:01:01	13(2)
C*07:02:01G	13(2)
C*07:02	75(12)
C*07	100(24)
24 low/16 high Labs - C	%(n)
C*15:02:01	19(3)
C*15:02:01G	6 (1)
C*15:02	75(12)
C*15	100(24)

Table 10. Summary of the 393rd Cell Exchange (Cell #1569 - 1572)

Serological typing

(Filipino)	
Cell 1569	
(21 Samples Typed)	
A11	95.2%
A11.1	4.8%
A11.2	4.8%
	[100.0%]
B62	90.5%
B15	9.5%
	[100.0%]
B27	100.0%
	[100.0%]
Cw7	38.1%
Bw4	81.0%
Bw6	81.0%
Others Found	
A43	4.8%
Cw17	4.8%

(Korean)	
Cell 1570	
(21 Samples Typed)	
A2	100.0%
	[100.0%]
A24	100.0%
	[100.0%]
B54	71.4%
B22	19.0%
	[90.5%]
Cw1	47.6%
Bw6	81.0%
Others Found	
B55	9.5%
B73	4.8%

(Chinese)	
Cell 1571	
(19 Samples Typed)	
A11	94.7%
A11.1	5.3%
	[100.0%]
A33	100.0%
	[100.0%]
B62	94.7%
B15	5.3%
	[100.0%]
B58	78.9%
B17	21.1%
	[100.0%]
Cw3	52.6%
	[52.6%]
Cw4	15.8%
Cw0403	5.3%
	[21.1%]
Bw4	78.9%
Bw6	78.9%
Others Found	

(Hispanic)	
Cell 1572	
(18 Samples Typed)	
A2	100.0%
	[100.0%]
A68	66.7%
A28	33.3%
	[100.0%]
B35	83.3%
B39	94.4%
	[94.4%]
Cw7	50.0%
Bw6	77.8%
Others Found	
B78	5.6%
B75	5.6%
B62	5.6%
Cw1	5.6%
B51	5.6%
B3901	5.6%

Table 11. Individual laboratory results for Cell #1569

		Low Resolution						High Resolution							
Center	**Investigator**	**HLA-A**		**HLA-B**		**HLA-C**		**HLA-A**		**HLA-B**		**HLA-C**		**Method**	**Other Alleles**
5462	Arnold , Paula	*11	*11	*15	*27	*07	*12	*11:01	*11:02P	*15:35	*27:04	*07:02	*12:02	SSP SSO SBT RT-PCR	A*11:110
5133	Askar , Medhat							*11:01:01	*11:02:01	*15:35	*27:04:01	*07:02:01:01	*12:02:02	NGS	
4492	Caillat-Zucman , Sc	*11		*15	*27	*07	*12							SSP	
774	Cecka , J. Michael	*11		*15	*27	*07	*12			*15:35	*27:04			SSP SSO	B*27:68/*27:69/*27:79/ *27:86
8070	Chang , Uckjin							*11:01	*11:02	*15:35	*27:04	*07:02	*12:02	SBT	
798	Claas , F.H.J.							*11:01:01	*11:02:01	*15:35	*27:04:01	*07:02:01	*12:02:02	SBT	
3632	Colombe , Beth W.	*11	*11	*15	*27	*07	*12	*11:01	*11:02	*15:35	*27:04	*07:02	*12:02	SSP SSO	
779	Daniel , Claude	*11	*11	*15	*27	*07	*12			*15:35				SSO	
8099	Danish , Adel	*11	*11	*15	*27	*07	*12							SSO	
3766	Dunckley , Heather	*11		*15	*27	*07	*12							SSO	
5214	Eckels/CPMC ,	*11	*11	*15(B62)	*27	*07	*12							SSO	
762	Fischer , Gottfried							*11:01	*11:02	*15:35	*27:04	*07:02	*12:02	SSO SBT NGS	
4079	Fort , Marylise	*11	*11	*15	*27	*07	*12	*11:01	*11:02	*15:35	*27:04	*07:02	*12:02	SSP SSO	A*11:193
3545	Goldstein , Steven	*11	*11	*15	*27	*07	*12	*11:01	*11:02	*15:35	*27:04	*07:02	*12:02	SSO SBT	C*07:50/*07:349
810	Hamdi , Nuha							*11:01	*11:01	*15:35	*27:04	*07:02	*12:02	SSO	
8043	Hod , Reut	*11	*11	*15	*27	*07	*12	*11:01	*11:02	*15:35	*27:04	*07:02	*12:02	SSP SSO	
771	Israel , Shoshana	*11		*15	*27	*07	*12	*11:01	*11:02	*15:35	*27:04	*07:02	*12:02	SSO SBT	
725	Lardy , N.M.	*11		*15	*27	*07	*12							SSO	
745	Latham , Katy							*11:01:01	*11:02:01	*15:35	*27:04:01	*07:02:01:01	*12:02:02	SSP SBT NGS	
278	Lee , Jar-How	*11	*11	*15	*27	*07	*12	*11:01	*11:02	*15:35	*27:04	*07:02	*12:02		
6649	Lim , Young Ae	*11		*15	*27									SSP	
731	Loewenthal , Ron	*11	*11	*15	*27	*07	*12	*11:01:01	*11:02:01G	*15:35	*27:04:01	*07:02:01G	*12:02:01G	SSP SSO SBT	
54	Pancoska , Carol	*11		*15	*27	*07	*12							SSO	
8001	Rao , Prakash	*11		*15(B62)	*27	*07	*12							SSO	
3625	Rees , Tracey	*11	*11	*15	*27	*07	*12	NT	NT	*15:35	*27:04	*07:02	*12:02		
793	Rubocki , Ronald	*11		*15	*27	*07	*12							SSP	
4251	Schiller , Jennifer	*11	*11	*15	*27	*07	*12	*11:01	*11:02	*15:35	*27:04	*07:02	*12:02	SSO SBT	
3808	Thornton , Alycia	*11		*15	*27	*07	*12			*15:35		*07:02:01G		SSP	
747	Tiercy , Jean-Marie	*11	*11	*15	*27	*07	*12	*11:01:01	*11:02:01	*15:35	*27:04:01	*07:02	*12:02	SSP SSO SBT	
5642	Varnavidou-Nicolaic	*11		*15	*27	*07	*12							SSP	
3186	Watson , Narelle	*11	*11	*15	*27	*07	*12							SSO	
16	Zhang , Aiwen	*11	*11	*15	*27	*07	*12	*11:01:01	*11:02:01	*15:35	*27:04:01	*07:02:01	*12:02:02	SSO SBT	A*11:110

Table 12. Individual laboratory results for Cell #1570

		Low Resolution						High Resolution							
Center	**Investigator**	**HLA-A**		**HLA-B**		**HLA-C**		**HLA-A**		**HLA-B**		**HLA-C**		**Method**	**Other Alleles**
5462	Arnold , Paula	*02	*24	*54		*01		*02:06	*24:02	*54:01		*01:02		SSP SSO SBT RT-PCR	
5133	Askar , Medhat							*02:06:01	*24:02:01	*54:01:01		*01:02:01		NGS	
4492	Caillat-Zucman , Sc	*02	*24	*54		*01								SSP	
774	Cecka , J. Michael	*02	*24	*54		*01		*02:06						SSP SSO	A*02:99/*02:106/*02:278/*02:290/*02:328/*02:330/*02:333/*02:404/*02:405/*02:470/*02:471/*02:472/*02:473/ *02:476N/*02:493/ *02:506N
8070	Chang , Uckjin							*02:06	*24:02	*54:01		*01:02		SBT	
798	Claas , F.H.J.							*02:06:01	*24:02	*54:01:01		*01:02:01		SBT	
3632	Colombe , Beth W.	*02	*24	*54		*01		*02:06	*24:02	*54:01		*01:02		SSP SSO	
779	Daniel , Claude	*02	*24	*54	*54	*01	*01							SSO	
8099	Danish , Adel	*02	*24	*54	*54	*01	*01							SSO	
3766	Dunckley , Heather	*02	*24	*54		*01								SSO	
5214	Eckels/CPMC ,	*02	*24	*54	*54	*01	*01							SSO	
762	Fischer , Gottfried							*02:06	*24:02	*54:01		*01:02		SSO SBT NGS	
4079	Fort , Marylise	*02	*24	*54		*01		*02:06	*24:02	*54:01		*01:02		SSP SSO	B*54:17/*54:32, A*24:76/*24:79/*24:144/*24:150/ *24:153/*24:154
3545	Goldstein , Steven	*02	*24	*54		*01		*02:06	*24:02	*54:01		*01:02		SSO SBT	C*01:85
810	Hamdi , Nuha							*02:06	*24:02:01	*54:01	*54:01	*01:02	*01:02	SSO	A*24:02
8043	Hod , Reut	*02	*24	*54		*01		*02:06	*24:02	*54:01		*01:02		SSP SSO	
771	Israel , Shoshana	*02	*24	*54		*01		*02:06	*24:02	*54:01		*01:02		SSO SBT	
725	Lardy , N.M.	*02	*24	*54		*01								SSO	
745	Latham , Katy							*02:06:01	*24:02:01:01	*54:01:01		*01:02:01		SSP SBT NGS	
278	Lee , Jar-How	*02	*24	*54	*54	*01	*01	*02:06	*24:02	*54:01	*54:01	*01:02	*01:02		
6649	Lim , Young Ae	*02	*24	*54										SSP	
731	Loewenthal , Ron	*02	*24	*54		*01		*02:06:01	*24:02:01G	*54:01:01		*01:02:01G		SSP SSO SBT	
54	Pancoska , Carol	*02	*24	*54		*01								SSO	
8001	Rao , Prakash	*02	*24	*54		*01								SSO	
3625	Rees , Tracey	NT													
793	Rubocki , Ronald	*02	*24	*54		*01								SSP	
4251	Schiller , Jennifer	*02	*24	*54	*54	*01	*01	*02:06	*24:02	*54:01	*54:01	*01:02	*01:02	SSO SBT	
3808	Thornton , Alycia	*02	*24	*54		*01								SSP	
747	Tiercy , Jean-Marie	*02	*24	*54		*01		*02:06:01	*24:02	*54:01		*01:02:01G		SSP SSO SBT	B*54:17/*54:32
5642	Varnavidou-Nicolaid	*02	*24	*54		*01								SSP	
3186	Watson , Narelle	*02	*24	*54	*54	*01	*01							SSO	
16	Zhang , Aiwen	*02	*24	*54		*01		*02:06	*24:02	*54:01:01		*01:02:01		SSO SBT	A*02:44/*02:54/*02:142/ *02:300/*02:398, A*24:13:01/*24:14/*24:53/ *24:188/*24:207

Table 13. Individual laboratory results for Cell #1571

		Low Resolution						Intermediate/High Resolution							
Center	**Investigator**	**HLA-A**		**HLA-B**		**HLA-C**		**HLA-A**		**HLA-B**		**HLA-C**		**Method**	**Other Alleles**
5462	Arnold , Paula	*11	*33	*15	*58	*03	*04	*11:01	*33:03	*15:25	*58:01	*03:02	*04:03	SSP SSO SBT RT-PCR	
5133	Askar , Medhat							*11:01:01	*33:03:01	*15:25:01	*58:01:01	*03:02:02:01	*04:03:01	NGS	
4492	Caillat-Zucman , Sc	*11	*33	*15	*58	*03	*04							SSP	
774	Cecka , J. Michael	*11	*33	*15	*58	*03	*04			*15:20/25/271			*04:03	SSP SSO	C*04:171
8070	Chang , Uckjin							*11:01	*33:03	*15:25	*58:01	*03:02	*04:03	SBT	
798	Claas , F.H.J.							*11:01:01	*33:03:01	*15:25:01	*58:01:01	*03:02:02	*04:03:01	SBT	
3632	Colombe , Beth W.	*11	*33	*15	*58	*03	*04	*11:01	*33:03	*15:25	*58:01	*03:02	*04:03	SSP SSO	
779	Daniel , Claude	*11	*33	*15	*58	*03	*04			*15:25		*03:02	*04:03	SSO	
8099	Danish , Adel	*11	*33	*15	*58	*03	*04							SSO	
3766	Dunckley , Heather	*11	*33	*15	*58	*03	*04							SSO	
5214	Eckels/CPMC ,	*11	*33	*15(B62)	*58	*03(Cw10)	*04							SSO	
762	Fischer , Gottfried							*11:01	*33:03	*15:25	*58:01	*03:02	*04:03	SSO SBT NGS	
4079	Fort , Marylise	*11	*33	*15	*58	*03	*04	*11:01	*33:03	*15:25	*58:01	*03:02	*04:03	SSP SSO	
3545	Goldstein , Steven	*11	*33	*15	*58	*03	*04	*11:01	*33:03	*15:25	*58:01	*03:02	*04:03	SSO SBT	
810	Hamdi , Nuha							*11:01	*33:01	*15:20	*58:01	*03:02	*04:03	SSO	
8043	Hod , Reut	*11	*33	*15	*58	*03	*04	*11:01	*33:03	*15:25	*58:01	*03:02	*04:03	SSP SSO	
771	Israel , Shoshana	*11	*33	*15	*58	*03	*04	*11:01	*33:03	*15:25	*58:01	*03:02	*04:03	SSO SBT	
725	Lardy , N.M.	*11	*33	*15	*58	*03	*04							SSO	
745	Latham , Katy							*11:01:01	*33:03:01	*15:25:01	*58:01:01	*03:02:02:01	*04:03:01	SSP SBT NGS	
278	Lee , Jar-How	*11	*33	*15	*58	*03	*04	*11:01	*33:03	*15:25	*58:01	*03:02	*04:03		
6649	Lim , Young Ae	*11	*33	*15	*58									SSP	
731	Loewenthal , Ron	*11	*33	*15	*58	*03	*04	*11:01:01	*33:03:01	*15:25:01	*58:01:01	*03:02:01G	*04:03:01	SSP SSO SBT	A*11:04, A*33:61, C*03:60, C*04:107
54	Pancoska , Carol	*11	*33	*15	*58	*03	*04							SSO	
8001	Rao , Prakash	*11	*33	*15(B62)	*58	*03(Cw10)	*04							SSO	
3625	Rees , Tracey	*11	*33	*15	*58	*03	*04	*11:01	*33:03	*15:25	*58:01	*03:02	*04:03		
793	Rubocki , Ronald	*11	*33	*15	*58	*03	*04							SSP	
4251	Schiller , Jennifer	*11	*33	*15	*58	*03	*04	*11:01	*33:03	*15:25	*58:01	*03:02	*04:03	SSO SBT	
3808	Thornton , Alycia	*11	*33	*15	*58	*03	*04			*15:25:01G		*03:02:01G		SSP	
747	Tiercy , Jean-Marie	NT												SSP SSO SBT	
5642	Varnavidou-Nicolaic	*11	*33	*15	*58	*03	*04							SSP	
3186	Watson , Narelle	*11	*33	*15	*58	*03	*04							SSO	
16	Zhang , Aiwen	*11	*33	*15	*58	*03	*04	*11:01:01	*33:03:01	*15:25:01	*58:01:01	*03:02:02	*04:03:01	SSO SBT	A*11:43, A*33:51, C*03:60, C*04:107

Table 14. Individual laboratory results for Cell #1572															
		Low Resolution						Intermediate/High Resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		Method	Other Alleles
5462	Arnold , Paula	*02	*68	*35	*39	*07	*15	*02:01	*68:01	*35:21	*39:05	*07:02	*15:02	SSP SSO SBT RT-PCR	
5133	Askar , Medhat							*02:01:01:01	*68:01:02:01	*35:21	*39:05:01	*07:02:01:01	*15:02:01	NGS	
4492	Caillat-Zucman , So	*02	*68	*35	*39	*07	*15							SSP	
774	Cecka , J. Michael	*02	*68	*35	*39	*07	*15			*35:21				SSP SSO	
8070	Chang , Uckjin							*02:01	*68:01	*35:21	*39:05	*07:02	*15:02	SBT	
798	Claas , F.H.J.							*02:01:01	*68:01:02	*35:21	*39:05:01	*07:02	*15:02:01	SBT	
3632	Colombe , Beth W.	*02	*68	*35	*39	*07	*15	*02:01	*68:01	*35:21	*39:05	*07:02	*15:02	SSP SSO	
779	Daniel , Claude	*02	*68	*35	*39	*07	*15							SSO	
8099	Danish , Adel	*02	*68	*35	*39	*07	*15							SSO	
3766	Dunckley , Heather	*02	*68	*35	*39	*07	*15							SSO	
5214	Eckels/CPMC ,	*02	*68	*35	*39	*07	*15			*35:21	*39:05			SSO	
762	Fischer , Gottfried							*02:01	*68:01	*35:21	*39:05	*07:02	*15:02	SSO SBT NGS	A*02:01L, C*07:50/*07:349, C*15:87
4079	Fort , Marylise	*02	*68	*35	*39	*07	*15							SSP SSO	
3545	Goldstein , Steven	*02	*68	*35	*39	*07	*15	*02:01	*68:01	*35:21	*39:05	*07:02	*15:02	SSO SBT	C*07:50/*07:349, C*15:87
810	Hamdi , Nuha							*02:01	*68:01:02	*35:11	*39:01	*07:02	*15:02	SSO	A*68:01
8043	Hod , Reut	*02	*68	*35	*39	*07	*15	*02:01	*68:01	*35:21	*39:05	*07:02	*15:02	SSP SSO	
771	Israel , Shoshana	*02	*68	*35	*39	*07	*15	*02:01	*68:01	*35:21	*39:05	*07:02	*15:02	SSO SBT	
745	Latham , Katy							*02:01:01:01	*68:01:02:01	*35:21	*39:05:01	*07:02:01:01	*15:02:01	SSP SBT NGS	
725	Lardy , N.M.	*02	*68	*35	*39	*07	*15							SSO	
278	Lee , Jar-How	*02	*68	*35	*39	*07	*15	*02:01	*68:01	*35:21	*39:05	*07:02	*15:02		
6649	Lim , Young Ae	*02	*68	*35	*39									SSP	
731	Loewenthal , Ron	*02	*68	*35	*39	*07	*15	*02:01:01	*68:01:02G	*35:21	*39:05:01	*07:02:01G	*15:02:01G	SSP SSO SBT	
54	Pancoska , Carol	*02	*68	*35	*39	*07	*15							SSO	
8001	Rao , Prakash	*02	*68	*35	*39	*07	*15							SSO	
3625	Rees , Tracey	*02	*68	*35	*39	*07	*15	*02:01	*68:01	*35:21	*39:05	NT	*15:02		A*68:11N
793	Rubocki , Ronald	*02	*68	*35	*39	*07	*15							SSP	
4251	Schiller , Jennifer	*02	*68	*35	*39	*07	*15	*02:01	*68:01	*35:21	*39:05	*07:02	*15:02	SSO SBT	
3808	Thornton , Alycia	*02	*68	*35	*39	*07	*15					*07:02:01G		SSP	
747	Tiercy , Jean-Marie	NT												SSP SSO SBT	
5642	Varnavidou-Nicolaid	*02	*68	*35	*39	*07	*15							SSP	
3186	Watson , Narelle	*02	*68	*35	*39	*07	*15							SSO	
16	Zhang , Aiwen	*02	*68	*35	*39	*07	*15	*02:01	*68:01	*35:21	*39:05:01	*07:02	*15:02	SSO SBT	A*02:22:01/*02:246/*02:334, A*68:08:02/*68:104:01/*68:105, C*07:10/*07:39/*07:51/ *07:76:01/*07:241, C*15:03/*15:07/*15:31/*15:62/ *15:72

Table 15. Individual laboratory results for Cell #1569-1572 by serology

		Cell No 1569 (Filipino)									Cell No 1570 (Korean)							Cell No 1571 (Chinese)										Cell No 1572 (Hispanic)							
Investigator	Days Old	Viab %	A11	B62	B27	Cw7	Cw12	Bw4	Bw6	OTHERS	Viab %	A2	A24	B54	Cw1	Bw6	OTHERS	Viab %	A11	A33	B62	B58	Cw3	Cw4	Bw4	Bw6	OTHERS	Viab %	A2	A68	B35	B39	Cw7	Bw6	OTHERS
Cecka, J. Mic	2	95	+	+	+			+	+		95	+	+	+		+		95	+	+	+	+			+	+		95	+	+	+	+		+	
Claas, F.H.J.	6	90	+	+	+			+	+		90	+	+	B22	+	+		90	+	+	+	B17	+	Cw0403	+	+		90	+	A28	+	+		+	
Dunckley, Hea		90	+	+	+						90	+	+	+				90	+	+	+	+						90	+	+	+	+			
Enczmann, J		95	+	+	+						95	+	+	+				95	+	+	+	+						95	+	+	+	+			
Fort, Marylis	3	80	+	+	+			+	+		98	+	+	+		+																		
Kvam, Vonnett		97	+	+	+			+	+		97	+	+	+	+	+		97	+	+	+	+	+		+	+		97	+	A28	+	+	+	+	
Latham, Katy	3	90	+	+	+			+	+		99	+	+	+		+		99	+	+	+	+			+	+		99	+	+	B78	+		+	
Loewenthal ,		80	+	+	+	+		+	+		85	+	+	+	+	+		75	+	+	+	+	+		+	+		80	+	+		+	+	+	
Pancoska, Car	2	98	+	+	+			+	+		98	+	+	+		+		98	+	+	+	+			+	+		98	+	+	+	B3901		+	B3901
Permpikul, Ve	7	90	A11.1	+	+			+	+	A11.2	90	+	+	+		+		90	A11.1	+	+	+			+	+		90	+	+	+	+		+	
Pule, Ziningi		80	+	+	+	+					80	+	+	B55	+			80	+	+	+	+	+	+				80	+	+	+	+	+		B51
Rees, Tracey	6	60	+	+	+	+		+	+		70	+	+	+	+	+		60	+	+	+	+	+	+	+	+		60	+	+	+	+	+	+	
Renac, Virgin	3	100	+	B15	+			+	+		100	+	+	B22		+		100	+	+	B15	+			+	+		100	+	A28	+	+		+	
Rubocki, Rona		98	+	+	+	+		+	+		98	+	+	+	+	+		98	+	+	+	+	+	+	+	+		98	+	A28	+	+	+	+	
Shai, Isaac	8	88	+	+	+	+	w17	+	+	A43	84	+	+	B55	+	+	B73	80	+	+	+	+	+		+	+		80	+	+	B62	+	+	+	B75+
Thornton, Aly		90	+	+	+	+		+	+		90	+	+	+	+	+		90	+	+	+	+	+		+	+		90	+	+	+	+	+	+	
Tiercy, Jean-	6	80	+	B15	+			+	+		90	+	+	+		+																		
Varnavidou-Ni	8	99	+	+	+			+	+		95	+	+	+		+		85	+	+	+	B17			+	+									
Vidan-Jeras,	6	100	+	+	+	+		+	+		100	+	+	B22	+	+		100	+	+	+	+	+		+	+		100	+	A28	+	+	+	+	
watson, Narel	9	80	+	+	+			+	+		80	+	+	B22		+		80	+	+	+	B17			+	+		80	+	A28	+	+		+	
Zhang, Aiwen	3	95	+	+	+	+					95	+	+	+	+			95	+	+	+	B17	+					95	+	+	+	+	+		

SERUM EXCHANGE #551

The results for **Serum Exchange 551** (**sera 1197 - 1200**), are summarized in Tables 16-21 and individual laboratory results by method are listed in Tables 22-31. Sera positive to A1, A11, A25, and A26 were examined in this exchange.

1197	method	#labs	A25	A26	NEG	A34	A66	A6601	A6602	B57	B58	A11	A1101	A1102	B63	A29	B54	B55	B38	B39	A80	B59	Cw4	Cw6
class I	NIH-Std	4	25	25	25																			
	NIH-Ext	3	100	100		33	100			33	33				33									
	AHG	2	50	50		50		50		50	50	50											50	50
	Luminex	28	96	96		96	75	36	36	100	89	79	32	29	89	96	86	82	79	71	64	43	4	11
	Flow	1	no consensus																					
	ELISA	2	100	100		100	100			100	100	50			100	100	50	50	50	50	50	50		
	C1q	1	no consensus																					
	Other	1	no consensus																					
1197	method	#labs	B18	B52	A43	A33	A68	B67	A30	A1	A36	A69	A31	B41	B56	A74	B42	B8	B73	Cw18	B3901	Cw7	B37	
	NIH-Std	4		25																				
	AHG	2	50																					
	Luminex	28	4	4	89	86	75	71	71	68	68	64	61	61	61	57	57	29	25	18	14	14	11	

Serum 1197 was reported as positive to A25 and A26 by all methods. Reactivity to other 10C specificities (A34 and A66), as well as reactivity to 1C and 5C specificities was reported by various methods. Additional reactivity to B38, B39, B54, B55, and B59 was reported Luminex and Elisa. Allele level reactivity to B*39:01 was also reported by a few (n=4) Luminex labs. For class II, strong reactivity to DR52 associated antigens, along with reactivity to DP specificities, was reported by Luminex. Several labs reported allele level reactivity to DRB1*09:01 and several reported reactivity to DQB1*06:01 and DQB1*06:03.

1197	method	#labs	DR10	DR11	DR13	DR14	DP14	DP17	DP18	DP28	DPw2	DPw3	DR52	DR12	DR17	DR18	DR7	DP10	DP20	DP9	DPw6	DR9	DQ7	DQ9	DPw4	DQ6	DQ8	DP402	DPw1	DPw5	DQ2	DR3	DQ3
class II	NIH-Std	1	no consensus																														
	NIH-Ext	1	no specificities assigned																														
	Luminex	23	100	100	100	96	91	91	91	91	91	91	91	91	87	87	87	83	83	83	83	74	74	65	57	57	57	52	22	17	17	13	9
	Flow	1	no specificities assigned																														
	C1q	1	no cosnensus																														
	Other	1	no cosnensus																														

1198	method	#labs	A25	NEG	A26	A66	A6601	A6602	A34	A11	A1101	A1102	B35	B53	B51	B81	B18	B56	B57	B50	B75	B63	B72	B78	B52	B46	B61	B62	B71	A32	A24	A2403
class I	NIH-Std	4	50	25																												
	NIH-Ext	3	100		100	67																										
	AHG	2	100		50		50		50	50			50	50	50	50																
	Luminex	28	100		100	79	36	36	100	79	32	32	100	96	82	50	96	96	75	86	86	79	79	79	82	79	71	86	86	96	96	32
	Flow	1	no consensus																													
	ELISA	2	100		100	100			50	100			100	100	100	50	100	50	50	100	100	100	100	100	100	50	50	50	50	100	50	
	C1q	1	no consensus																													
	Other	1	no consensus																													
1198	method	#labs	B48	B58	B59	B7	B73	B77	B49	A43	A1	A23	A36	A80	A68	A33	Cw4	Cw6	Cw18	Cw7	Cw15	B60	B67	B37	B76	B54	B39	B41	B59			
	Luminex	28		71	39		89	86	82	89	86	86	86	79	71	50	86	86	86	68	46	75	71	61	57	46	43	39	39			
	ELISA	2	50	50	50	50																										

1198	method	#labs	DR4	DR15	DR16	DPw1	DR51	DPw5
class II	NIH-Ext	1	no cosnensus					
	Luminex	20	95	90	85	25	20	15
	Flow	1	no specificities assigned					
	Other	1	no cosnensus					

For **Serum 1198,** strong anti-A25 reactivity was reported by all methods. Additional reactivity to other 10C specificities (A26, A66, A34), along with anti-A11, -B35, -B51, -B53, and -B81 reactivity was reported by various methods. Luminex and Elisa also reported strong reactivity to A24, A32, and reactivity to 5C specificities. C-locus reactivity (Cw4, Cw6, Cw7, Cw15, and Cw18) was also reported by Luminex. For class II, strong reactivity to DR4, DR15, and DR16 was reported by Luminex.

1199	method	#labs	A11	A1101	A1102	A3	A25	A26	A34	A66	A6601	A6602	A29	A30	A31	A33	A74	A19	A1	B35	B64	B65	B7	B8	B18	B41	B42	B45	B50	B55	B60	B48	B53	B61	B62
class I	NIH-Std	4	75			50	25	25	25	25								25																
	NIH-Ext	2	50					50						50			50																	
	AHG	2	100			100	100	100	100	50	50		100	100	100	100	100		50	50	50	50												
	Luminex	27	78	33	33	100	96	96	96	74	37	37	96	100	96	100	96		100	96	81	81	96	96	93	93	93	93	93	93	93	89	89	89	89
	Flow	1	no consensus																															
	ELISA	2	100			100	100	100	100	100			100	100	100	100	100		100	100			100	100	100	100	100	100	100	100	100	100	100	100	100
	C1q	1	no consensus																															
	Other	1	no consensus																															
1199	method	#labs	B72	B75	B78	B81	A36	A80	A32	A43	B67	B71	B54	B56	B76	B39	B3901	B77	B8101	B51	A24	A2403	B82	B27	B2708	Cw18	Cw6	Cw4	Cw15	Cw2	Cw5	Cw17	A23	B46	Bw6
	AHG	2							50																									
	Luminex	27	89	89	74	74	96	96	26	93	93	93	89	89	85	75	22	74	22	74	70	22	70	63	44	59	59	56	52	52	52	37	33	26	22
	ELISA	2	100	100	100	100	100	100																										

1199	method	#labs	NEG					
class II	NIH-Ext		no specificities assigned					
	Luminex	13	69					
	Flow	1	no cosnensus					
	Other	1	no cosnensus					

Serum 1199 was strongly positive to A11 by all methods. In addition, reactivity to other 1C specificities and a number of 10C specificities was reported by various methods. Strong reactivity to 5C and 7C specificities was also reported by Luminex and Elisa. Allele level reactivity to B*51:02 was reported by a number of (n=5) labs reporting by Luminex. This sample was reported as negative for class II.

1200	method	#labs	A1	A11	A1101	A1102	A23	A24	A26	A34	A25	A66	A6601	A36	B8	B35	B7	A80	B38	B51	Bw6	B18	B37	B39	B3901	B41	B42	B54	B55	B56	B59	B62	B67	B45	B50
class I	NIH-Std	4	100	75			25	25	25	25	75			25	50																			
	NIH-Ext	3	67	100			33	67	100	100	100	67			67		33																		
	AHG	2	100	100			100	100	100	100	50	50		50	50	50			50	50	50														
	Luminex	27	100	78	33	33	100	96	96	96	96	70	33	96	100	96	100	100	70	81	30	96	81	78	26	96	96	96	96	96	96	93	96	89	89
	Flow	1	no consensus																																
	ELISA	2	100	100			100		100	100	100	100		100		100	100	100				100	100	100		100	100	100	100	100	100	100	100	100	100
	C1q	1	no consensus																																
	Other	1	no consensus																																

1200	method	#labs	B60	B61	B64	B65	B14	B71	B75	B78	B48	B52	A32	B73	B72	B76	B82	B77	B53	B81	B8101	B27	B2708	Cw18	Cw6	Cw7	Cw4	Cw17	A43	Cw15	Cw2	Cw5	A33	A3	
class I	NIH-Ext	3					33																												
	AHG	2											50																						
	Luminex	27	89	89	89	89		89	89	85	81			96	89	85	78	74	70	70	22	63	52	96	96	96	74	63	89	41	30	30	56	22	
	ELISA	2	100	100	100	100		100	100	100	100	100																							

1200	method	#labs	DQ2	DR7	DR52	DR18		
class II	NIH-Ext		no specificities assigned					
	Luminex	22	95	64	23	18		
	Flow	1	no specificities assigned					
	Other	1	no cosnensus					

For **Serum 1200**, strong anti-A1 and -A11 reactivity was reported by all methods. In addition, all methods reported reactivity to A23, A24, as well as reactivity to 10C specificities. Reactivity to 5C, 7C, 8C, and 12C specificities was also reported by various methods. Allele level reactivity to A*24:02 was reported by several labs. For class II, strong anti-DQ2 reactivity was reported by Luminex. Additional reactivity to DR7 and DR52 (DRB3*03:01) was also reported by Luminex.

Table 16. Summary of the 551st Serum Exchange (Serum #1197-1200) by NIH-Standard and NIH-Extended - class I

Method: NIH-Standard

*** Serum 1197 ***		
4 typing Labs		
Antigen	Consensus	Inclusion
A25	25%	100%
A26	25%	100%
B52	25%	100%
NEG	25%	100%

*** Serum 1198 ***		
4 typing Labs		
Antigen	Consensus	Inclusion
A25	50%	100%
NEG	25%	100%

*** Serum 1199 ***		
4 typing Labs		
Antigen	Consensus	Inclusion
A11	75%	100%
A3	50%	86%
A19	25%	100%
A25	25%	100%
A26	25%	100%
A34	25%	100%
A66	25%	100%

*** Serum 1200 ***		
4 typing Labs		
Antigen	Consensus	Inclusion
A1	100%	88%
A25	75%	100%
A11	75%	86%
B8	50%	100%
A23	25%	100%
A24	25%	100%
A26	25%	100%
A34	25%	100%
A36	25%	100%

Method: NIH-Extended

*** Serum 1197 ***		
3 typing Labs		
Antigen	Consensus	Inclusion
A26	100%	100%
A25	100%	67%
A66	100%	50%
A34	33%	100%
B57	33%	100%
B58	33%	100%
B63	33%	100%

*** Serum 1198 ***		
3 typing Labs		
Antigen	Consensus	Inclusion
A25	100%	100%
A26	100%	67%
A66	67%	100%

*** Serum 1199 ***		
2 typing Labs		
Antigen	Consensus	Inclusion
A11	50%	100%
A26	50%	100%
A30	50%	100%
A74	50%	100%

*** Serum 1200 ***		
3 typing Labs		
Antigen	Consensus	Inclusion
A11	100%	100%
A25	100%	100%
A26	100%	100%
A34	100%	100%
A66	67%	100%
B8	67%	100%
A1	67%	91%
A24	67%	75%
B14	33%	100%
B7	33%	100%
A23	33%	75%

Table 17. Summary of the 551st Serum Exchange (Serum #1197-1200) by Antiglobulin, C1q, Other - class I

Method: Antiglobulin

*** Serum 1197 ***		
2 typing Labs		
Antigen	Consensus	Inclusion
A25	50%	100%
A26	50%	100%
A6601	50%	100%
Cw4	50%	100%
Cw6	50%	100%
A11	50%	75%
B57	50%	60%
B18	50%	50%
B58	50%	50%
A34	50%	33%

*** Serum 1198 ***		
2 typing Labs		
Antigen	Consensus	Inclusion
A25	100%	100%
A11	50%	100%
A26	50%	100%
A6601	50%	100%
B81	50%	100%
B51	50%	89%
B53	50%	86%
B35	50%	83%
A34	50%	67%

*** Serum 1199 ***		
2 typing Labs		
Antigen	Consensus	Inclusion
A11	100%	100%
A26	100%	100%
A29	100%	100%
A3	100%	100%
A31	100%	100%
A33	100%	100%
A34	100%	100%
A30	100%	86%
A74	100%	83%
A25	100%	67%
A1	50%	100%
A32	50%	100%
A66	50%	100%
A6601	50%	100%
B35	50%	100%
B64	50%	100%
B65	50%	100%

*** Serum 1200 ***		
2 typing Labs		
Antigen	Consensus	Inclusion
A1	100%	100%
A11	100%	100%
A23	100%	100%
A24	100%	100%
A26	100%	100%
A34	100%	100%
A25	50%	100%
A32	50%	100%
A36	50%	100%
A66	50%	100%
B22	50%	100%
B35	50%	100%
B38	50%	100%
B51	50%	100%
B8	50%	100%
Bw6	50%	92%

Method: C1q

*** Serum 1197 ***		
1 typing Lab		
Antigen	Consensus	Inclusion
no consensus		

*** Serum 1198 ***		
1 typing Lab		
Antigen	Consensus	Inclusion
no consensus		

*** Serum 1199 ***		
1 typing Lab		
Antigen	Consensus	Inclusion
no consensus		

*** Serum 1200 ***		
1 typing Lab		
Antigen	Consensus	Inclusion
no consensus		

Method: Other

*** Serum 1197 ***		
1 typing Lab		
Antigen	Consensus	Inclusion
no consensus		

*** Serum 1198 ***		
1 typing Lab		
Antigen	Consensus	Inclusion
no consensus		

*** Serum 1199 ***		
1 typing Lab		
Antigen	Consensus	Inclusion
no consensus		

*** Serum 1200 ***		
1 typing Lab		
Antigen	Consensus	Inclusion
no consensus		

Table 18. Summary of the 551st Serum Exchange (Serum #1197-1200) by Luminex - class I

Method: Luminex												
*** Serum 1197 ***			*** Serum 1198 ***			*** Serum 1199 ***			*** Serum 1200 ***		
28 typing Labs			28 typing Labs			27 typing Labs			27 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B57	100%	100%	A25	100%	100%	A1	100%	100%	A1	100%	100%
A25	96%	100%	A26	100%	100%	A3	100%	100%	A23	100%	100%
A26	96%	100%	A34	100%	100%	A30	100%	100%	A80	100%	100%
A29	96%	100%	B35	100%	100%	A33	100%	100%	B7	100%	100%
A34	96%	100%	A32	96%	100%	A25	96%	100%	B8	100%	100%
B58	93%	100%	B18	96%	100%	A26	96%	100%	A25	96%	100%
A43	89%	100%	B56	96%	100%	A29	96%	100%	A26	96%	100%
B63	89%	100%	A24	93%	100%	A31	96%	100%	A34	96%	100%
B54	86%	80%	B53	93%	100%	A34	96%	100%	A36	96%	100%
A33	86%	33%	A43	89%	100%	A36	96%	100%	B18	96%	100%
B55	82%	60%	B73	89%	100%	A74	96%	100%	B35	96%	100%
B38	79%	100%	A1	86%	100%	A80	96%	100%	B41	96%	100%
A11	79%	72%	A23	86%	100%	B35	96%	100%	B42	96%	100%
A66	75%	100%	A36	86%	100%	B7	96%	100%	B54	96%	100%
A68	75%	100%	B62	86%	100%	B8	96%	100%	B55	96%	100%
B67	71%	100%	B71	86%	100%	A43	93%	100%	B56	96%	100%
B39	71%	75%	B77	86%	100%	B18	93%	100%	B59	96%	100%
A30	71%	58%	Cw4	86%	100%	B41	93%	100%	B67	96%	100%
A1	68%	100%	B75	86%	88%	B42	93%	100%	B73	96%	100%
A36	68%	100%	B50	86%	80%	B45	93%	100%	Cw18	96%	100%
A69	64%	100%	Cw18	86%	60%	B50	93%	100%	Cw7	96%	91%
A80	64%	100%	Cw6	86%	60%	B55	93%	100%	Cw6	96%	87%
A31	61%	100%	B49	82%	100%	B60	93%	100%	A24	96%	79%
B41	61%	100%	B51	82%	100%	B67	93%	100%	A43	89%	100%
B56	61%	100%	B52	82%	100%	B71	93%	100%	B62	93%	83%
A74	57%	100%	A11	79%	100%	B48	89%	100%	B45	89%	100%
B42	57%	100%	A80	79%	100%	B53	89%	100%	B60	89%	100%
B59	43%	100%	B46	79%	100%	B54	89%	100%	B64	89%	100%
A6601	36%	100%	B63	79%	100%	B56	89%	100%	B65	89%	100%
A6602	36%	100%	B72	79%	100%	B61	89%	100%	B71	89%	100%
A1101	32%	100%	B78	79%	100%	B62	89%	100%	B72	89%	100%
A1102	29%	100%	A66	79%	90%	B72	89%	100%	B75	89%	100%
B8	29%	100%	B57	75%	100%	B75	89%	83%	B61	89%	89%
B73	25%	100%	B60	75%	100%	B76	85%	100%	B50	89%	80%
Cw18	18%	100%	B58	71%	100%	B64	81%	100%	B76	85%	100%

Table 18. Summary of the 551st Serum Exchange (Serum #1197-1200) by Luminex - class I

Method: Luminex - cont.

*** Serum 1197 ***		
28 typing Labs		
Antigen	Consensus	Inclusion
B3901	14%	100%
Cw7	14%	100%
B37	11%	100%
Cw6	11%	100%
A3	7%	100%
B15	7%	100%
A10C	4%	100%
B18	4%	100%
B27	4%	100%
B46	4%	100%
B52	4%	100%
B64	4%	100%
B65	4%	100%
B71	4%	100%
B75	4%	100%
B77	4%	100%
B81	4%	100%
B82	4%	100%
Bw4	4%	100%
Cw15	4%	100%
Cw4	4%	100%
Cw8	4%	100%

*** Serum 1198 ***		
28 typing Labs		
Antigen	Consensus	Inclusion
B67	71%	100%
A68	71%	50%
B61	71%	50%
A69	68%	100%
B48	68%	100%
Cw7	68%	100%
B37	61%	100%
B76	57%	100%
A33	50%	100%
B81	50%	100%
B54	46%	100%
Cw15	46%	100%
B39	43%	100%
B41	39%	100%
B59	39%	100%
A6601	36%	100%
A6602	36%	100%
A1101	32%	100%
A1102	32%	100%
A2403	32%	100%
Cw10	32%	100%
B8	29%	100%
B27	21%	100%
B7801	21%	100%
Cw9	21%	100%

*** Serum 1199 ***		
27 typing Labs		
Antigen	Consensus	Inclusion
B65	81%	100%
A11	78%	100%
B39	75%	100%
A66	74%	100%
B77	74%	100%
B78	74%	100%
B81	74%	100%
B51	74%	57%
A24	70%	100%
B82	70%	100%
B27	63%	67%
Cw18	59%	100%
Cw6	59%	100%
Cw4	56%	100%
Cw15	52%	100%
Cw2	52%	100%
Cw5	52%	100%
B2708	44%	100%
A6601	37%	100%
A6602	37%	100%
Cw17	37%	100%
A1101	33%	100%
A1102	33%	100%
A23	33%	100%
A32	26%	100%
B46	26%	100%
A2403	22%	100%
B3901	22%	100%
B8101	22%	100%
Bw6	22%	98%

*** Serum 1200 ***		
27 typing Labs		
Antigen	Consensus	Inclusion
B78	85%	80%
B48	81%	100%
B51	81%	80%
B37	81%	75%
A11	78%	100%
B39	78%	100%
B82	78%	100%
B77	74%	100%
Cw4	74%	100%
B38	70%	100%
B53	70%	100%
B81	70%	100%
A66	70%	70%
Cw17	63%	100%
B27	63%	56%
A33	56%	100%
B2708	52%	100%
Cw15	41%	100%
A1101	33%	100%
A1102	33%	100%
A6601	33%	100%
Bw6	30%	100%
Cw2	30%	100%
Cw5	30%	100%
B3901	26%	100%
A3	22%	100%
B8101	22%	100%

Table 19. Summary of the 551st Serum Exchange (Serum #1197-1200) by Flow Cytometry and ELISA - class I

Method: Flow Cytometry

*** Serum 1197 ***		
1 typing Lab		
Antigen	Consensus	Inclusion
no antigens assigned		

*** Serum 1198 ***		
1 typing Lab		
Antigen	Consensus	Inclusion
no antigens assigned		

*** Serum 1199 ***		
1 typing Lab		
Antigen	Consensus	Inclusion
no antigens assigned		

*** Serum 1200 ***		
1 typing Lab		
Antigen	Consensus	Inclusion
no antigens assigned		

Method: ELISA

*** Serum 1197 ***		
2 typing Labs		
Antigen	Consensus	Inclusion
A25	100%	100%
A26	100%	100%
A29	100%	100%
A34	100%	100%
A66	100%	100%
B57	100%	100%
B58	100%	100%
B63	100%	100%
A11	50%	100%
A80	50%	100%
B39	50%	100%
B54	50%	100%
B55	50%	100%
B59	50%	100%
B38	50%	50%

*** Serum 1198 ***		
2 typing Labs		
Antigen	Consensus	Inclusion
A11	100%	100%
A25	100%	100%
A26	100%	100%
A66	100%	100%
B35	100%	100%
B50	100%	100%
B51	100%	100%
B53	100%	100%
B63	100%	100%
B72	100%	100%
B75	100%	100%
B78	100%	100%
A32	100%	75%
B18	100%	75%
B52	100%	75%
A34	50%	100%
B46	50%	100%
B48	50%	100%
B56	50%	100%
B58	50%	100%
B59	50%	100%
B61	50%	100%
B62	50%	100%
B71	50%	100%
B81	50%	100%
A24	50%	50%
B57	50%	50%
B7	50%	50%

*** Serum 1199 ***		
2 typing Labs		
Antigen	Consensus	Inclusion
A1	100%	100%
A11	100%	100%
A25	100%	100%
A26	100%	100%
A29	100%	100%
A3	100%	100%
A30	100%	100%
A31	100%	100%
A33	100%	100%
A34	100%	100%
A36	100%	100%
A66	100%	100%
A74	100%	100%
A80	100%	100%
B18	100%	100%
B35	100%	100%
B41	100%	100%
B42	100%	100%
B45	100%	100%
B48	100%	100%
B50	100%	100%
B53	100%	100%
B55	100%	100%
B60	100%	100%
B61	100%	100%
B62	100%	100%
B7	100%	100%
B72	100%	100%
B75	100%	100%
B78	100%	100%
B8	100%	100%
B81	100%	100%

*** Serum 1200 ***		
2 typing Labs		
Antigen	Consensus	Inclusion
A1	100%	100%
A11	100%	100%
A23	100%	100%
A25	100%	100%
A26	100%	100%
A34	100%	100%
A36	100%	100%
A66	100%	100%
A80	100%	100%
B18	100%	100%
B35	100%	100%
B37	100%	100%
B39	100%	100%
B41	100%	100%
B42	100%	100%
B45	100%	100%
B48	100%	100%
B50	100%	100%
B52	100%	100%
B54	100%	100%
B55	100%	100%
B56	100%	100%
B59	100%	100%
B60	100%	100%
B61	100%	100%
B62	100%	100%
B64	100%	100%
B65	100%	100%
B67	100%	100%
B7	100%	100%
B71	100%	100%
B75	100%	100%

Table 20. Summary of the 551st Serum Exchange (Serum #1197-1200) by Luminex - class II

Method: Luminex

*** Serum 1197 ***		
23 typing Labs		
Antigen	Consensus	Inclusion
DR10	100%	100%
DR11	100%	100%
DR13	100%	91%
DR14	96%	82%
DP14	91%	100%
DP17	91%	100%
DP18	91%	100%
DP28	91%	100%
DPW2	91%	100%
DPW3	91%	100%
DR52	91%	97%
DR12	91%	88%
DR17	87%	100%
DR18	87%	100%
DR7	87%	100%
DP10	83%	100%
DP20	83%	100%
DP9	83%	100%
DPW6	83%	100%
DR9	74%	86%
DQ7	74%	60%
DQ9	65%	33%
DPW4	57%	50%
DQ6	57%	33%
DQ8	57%	33%
DP402	52%	100%
DPW1	22%	100%
DPW5	17%	100%
DQ2	17%	100%
DR3	13%	100%
DQ3	9%	100%
DQ4	4%	100%
DR103	4%	100%
DR1404	4%	100%
DR4	4%	100%

*** Serum 1198 ***		
20 typing Labs		
Antigen	Consensus	Inclusion
DR4	95%	100%
DR15	90%	100%
DR16	85%	100%
DPW1	25%	100%
DR51	20%	100%
DPW5	15%	100%
DP14	5%	100%
DQ7	5%	100%
DQ8	5%	100%
DQ9	5%	100%
DR2	5%	100%

*** Serum 1199 ***		
13 typing Labs		
Antigen	Consensus	Inclusion
NEG	69%	100%
DP18	15%	100%
DR103	15%	100%
DR14	15%	100%
DR18	15%	100%
DPW3	15%	67%
DR12	15%	67%
DPW1	15%	60%
DP10	8%	100%
DP11	8%	100%
DP13	8%	100%
DP14	8%	100%
DP15	8%	100%
DP17	8%	100%
DP19	8%	100%
DP20	8%	100%
DP23	8%	100%
DP28	8%	100%
DP9	8%	100%
DPW2	8%	100%
DPW4	8%	100%
DPW5	8%	100%
DPW6	8%	100%
DQ2	8%	100%
DQ4	8%	100%
DQ5	8%	100%
DQ6	8%	100%
DQ7	8%	100%
DQ8	8%	100%
DQ9	8%	100%
DR1	8%	100%
DR10	8%	100%
DR11	8%	100%
DR13	8%	100%
DR15	8%	100%

*** Serum 1200 ***		
22 typing Labs		
Antigen	Consensus	Inclusion
DQ2	95%	90%
DR7	64%	100%
DR52	23%	100%
DR18	18%	100%
DQ5	5%	100%
DR3	5%	100%

Table 21. Summary of the 551st Serum Exchange (Serum #1197-1200) by NIH, Flow Cytometry, C1q, Other - class II

Method: NIH-Standard

*** Serum 1197 ***			*** Serum 1198 ***			*** Serum 1999 ***			*** Serum 1200 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			NT			NT			NT		

Method: NIH-Extended

*** Serum 1197 ***			*** Serum 1198 ***			*** Serum 1999 ***			*** Serum 1200 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no antigens assigned			no consensus			no antigens assigned			no antigens assigned		

Method: Flow Cytometry

*** Serum 1197 ***			*** Serum 1198 ***			*** Serum 1999 ***			*** Serum 1200 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no antigens assigned			no antigens assigned			no consensus			no antigens assigned		

Method: C1q

*** Serum 1197 ***			*** Serum 1198 ***			*** Serum 1999 ***			*** Serum 1200 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			NT			NT			NT		

Method: *Other

*** Serum 1197 ***			*** Serum 1198 ***			*** Serum 1999 ***			*** Serum 1200 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			no consensus			no consensus			no consensus		

*Other = PRA

Table 22. Individual laboratory results for Serum #1197-#1200 by NIH-Standard and NIH-Extended - class I

	**** Serum 1197 ****					**** Serum 1198 ****				**** Serum 1199 ****						**** Serum 1200 ****						
Investigator	% POS	A25	A26	B52	Other	% POS	A25		Other	% POS	A11	A3			Other	% POS	A1	A25	A11	B8	Other	Method
Claas, F.H.J.	50	+	+	+		0				25	+	+				42	+	+			A36	STD
Fort, Marylise	5					NT				NT						NT						STD
McCluskey, James	0					5.5	+			33						50	+	+	+		A34	STD
Vasilescu, Rodica	NT						+				+	+			A66,A25,A26,A34 >		+	+	+	+	A24,A26,A23	STD
Watson, Narelle	3					2				31	+					48	+		+	+		STD

STD=NIH-Standard

	**** Serum 1197 ****					**** Serum 1198 ****				**** Serum 1199 ****						**** Serum 1200 ****						
Investigator	% POS	A26	A25	A66	Other	% POS	A25	A26	Other	% POS	A11	A26	A30	A74	Other	% POS	A11	A25	A26	A34	Other	Method
Dunckley, Heather	36	+	+	+	B63,B57,B58	22	+	+	A66	16		+				52	+	+	+	+	A24,A1,B8	EXT
Lardy, N.M.	19	+	+	+		9	+	+		NT						76	+	+	+	+	A24,A66,B7,A1 >	EXT
Reed, Elaine F. PhD	36	+	+	+	A34	10	+	+	A66	47	+		+	+		74	+	+	+	+	A66	EXT

STD=NIH-Extended

Table 23. Individual laboratory results for Serum #1197-#1200 by Antiglobulin and C1q - class I

	**** Serum 1197 ****												**** Serum 1198 ****											
Investigator	% POS	A25	A26	A6601	Cw4	Cw6	A11					Other	% POS	A25	A11	A26	A6601	B81	B51					Other	Method
Hahn, Amy B. PhD		+	+	+			+					A34,B57,B58,B18		+	+	+	+	+	+					B53,A34,B35	Antiglobulin
Vasilescu, Rodica					+	+								+											Antiglobulin

	**** Serum 1199 ****												**** Serum 1200 ****											
Investigator	% POS	A11	A26	A29	A3	A31	A33	A34	A30	A74	A25	Other	% POS	A1	A11	A23	A24	A26	A34					Other	Method
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	A1,A32,B64,B65 >		+	+	+	+	+	+					A32,Bw6	Antiglobulin
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	A66,B35		+	+	+	+	+	+					A66,B51,B22,A25 >	Antiglobulin

	**** Serum 1197 ****												**** Serum 1198 ****											
Investigator	% POS	A25	A26	A66	Cw2	Cw6						Other	% POS	A25	A26	A66								Other	Method
Liu, Chang MD, PhD		+	+	+	+	+								+	+	+									C1q

	**** Serum 1199 ****												**** Serum 1200 ****											
Investigator	% POS	A1	A11	A25	A26	A29	A3	A30	A31	A33	A34	Other	% POS	A1	A11	A23	A24	A25	A26	A34	A36	A43	A66	Other	Method
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	A66,B75,A74,A36 >		+	+	+	+	+	+	+	+	+	+	Cw6,B78,B51,B75 >	C1q

Table 24. Individual laboratory results for Serum #1197 by Luminex - class I

**** Serum 1197 ****																																									
Investigator	% POS	B57	A25	A26	A29	A34	B58	A43	B63	B54	A33	B55	B38	A11	A66	A68	B67	B39	A30	A1	A36	A69	A80	A31	B41	B56	A74	B42	B59	A6601	A6602	A1101	A1102	B8	B73	Cw18	Other	Method
Abu Amin, Noryati	Multi	+			+						+			+		+				+					+			+								B52,B18,Cw7,Cw8	LMX
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+		+	+	+		+				+	+	+	+				B3901	LMX
Bengochea, Carrett	25	+	+	+	+	+	+	+	+	+	+	+	+			+	+			+	+		+							+	+	+	+				B3901	LMX
Cecka, J. Michael P	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+																			LMX
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+			+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				B3901	LMX
Daniel, Dolly	11	+	+	+	+	+		+						+																+	+	+						B15,Bw4,A10C	LMX
Dunckley, Heather	77	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Esteves Kondo, Deb	21	+	+	+	+	+	+	+	+	+	+	+		+	+			+	+																				LMX
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+	+			LMX
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											LMX
Hamdi, Nuha	65	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											LMX
Hod, Reut	58	+	+	+	+	+	+		+	+		+		+	+		+								+				+								Cw4,B27,B75,B65 >	LMX
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+	+	Cw6,A3,B37,Cw7 >	LMX
Keming, Du	18	+	+	+	+	+	+	+	+	+				+	+				+																			LMX
Lardy, N.M.		+	+	+	+	+	+	+	+		+			+	+																							LMX
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+											LMX
Loewenthal , Ron M	22	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+			+									+	+	+	+					LMX
McCluskey, James	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,B37,Cw7	LMX
Pancoska, Carol Ph	78	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											LMX
Permpikul, Vejbaesy	31	+	+	+		+	+		+				+		+			+																			B82,B64,B81	LMX
Pule, Ziningi	23	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+			+	+															B15	LMX
Reed, Elaine F. PhD	37	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX
Rosen-Bronson, Sa		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+					LMX
V.Brouard, M.Tonye	51	+	+	+	+	+	+	+	+	+	+	+	+			+	+		+	+	+	+	+	+	+	+	+	+		+	+	+	+				B3901	LMX
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+	+	Cw6,A3,B37,Cw7	LMX
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+	+			LMX

Table 25. Individual laboratory results for Serum #1199 by Luminex - class I

**** Serum 1198 ****																																									
Investigator	% POS	A25	A26	A34	B35	A32	B18	B56	A24	B53	A43	B73	A1	A23	A36	B62	B71	B77	Cw4	B75	B50	Cw18	Cw6	B49	B51	B52	A11	A80	B46	B63	B72	B78	A66	B57	B60	B58	B67	A68	B61	Other	Method
Abu Amin, Noryati	Multi	+	+	+	+				+	+			+	+		+											+					+	+		+					B7,A33,A3,B42 >	LMX
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	B48,A69,Cw7,A2403 >	LMX
Bengochea, Carretto	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+			+	+	+	+	+	+	B76,B39,B8,B8101 >	LMX
Cecka, J. Michael P	69	+	+	+	+	+	+	+		+	+				+		+	+	+	+	+	+	+	+	+	+	+		+			+	+								LMX
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+			+	+	+	+	+	+	B48,B54,A33,A69 >	LMX
Daniel, Dolly	14	+	+	+	+	+	+	+	+	+	+	+																												B15,Bw4,Bw6,A2403>	LMX
Dunckley, Heather	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B54,A33,A69 >	LMX
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,A69,B76,B37 >	LMX
Esteves Kondo, Deb	33	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+	+	+	+	+	+	+	+	+				+	+	+								LMX
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B27,B54,A33 >	LMX
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B54,A33,A69 >	LMX
Hamdi, Nuha	18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+	+	+	+	+	+	+	+	+	+	B48,A69,B76,B37 >	LMX
Hod, Reut	96	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B47,B27,B82 >	LMX
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B54,A33,A69 >	LMX
Keming, Du	32	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+	+	+		+	+	+	+	+			+		+	+								LMX
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	B81	LMX
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,A69,B37,Cw7	LMX
Loewenthal , Ron M	65	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+	+	+	+	+	Cw403,B48,B13 >	LMX
McCluskey, James	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B13,B27,B7 >	LMX
Pancoska, Carol Ph	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,A69,B76,B81 >	LMX
Permpikul, Vejbaesy	49	+	+	+	+	+	+	+					+		+												+						+							A33	LMX
Pule, Ziningi	33	+	+	+	+	+	+	+	+		+	+	+		+							+	+				+	+				+	+				+			B15	LMX
Reed, Elaine F. PhD	58	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,A69,B76,B39 >	LMX
Rosen-Bronson, Sar		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B54,A33,A69 >	LMX
V.Brouard, M.Tonye	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+			+		+	+	+		A2,B40,B48,B54 >	LMX
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+			+	+	+	+	+	+	B48,B13,B27,B54 >	LMX
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B13,B54,A33 >	LMX
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B13,B27,B54 >	LMX

Table 26. Individual laboratory results for Serum #1199 by Luminex - class I

	**** Serum 1199 ****																																								
Investigator	% POS	A1	A3	A30	A33	A25	A26	A29	A31	A34	A36	A74	A80	B35	B7	B8	A43	B18	B41	B42	B45	B50	B55	B60	B67	B71	B48	B53	B54	B56	B61	B62	B72	B75	B76	B64	B65	A11	B39	Other	Method
Abu Amin, Noryati	Multi	+	+	+	+																			+		+												+	+	A24,A2,B44,B27>	LMX
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B78,B27,B51>	LMX
Bengochea, Carrett	55	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Cw6,Cw403,B77>	LMX
Cecka, J. Michael P	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A66,B78,B27>	LMX
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	Cw4,Cw6,A24,B51>	LMX
Daniel, Dolly	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+															B40,B15,B14,Bw4 >	LMX
Dunckley, Heather	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A66,B78,B51>	LMX
Esteves Kondo, Deb	51	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	A66,B27,B82,B81	LMX
Fort, Marylise	NT																																								LMX
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
Hamdi, Nuha	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
Hod, Reut	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	Cw4,Cw6,A2,A66>	LMX
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
Keming, Du	54	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B78,B27,B51>	LMX
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B78,B27,B82>	LMX
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A66,B78,B27>	LMX
Loewenthal , Ron M	63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	Cw4,Cw6,Cw403>	LMX
McCluskey, James	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Cw4,Cw6,A24,A9>	LMX
Pancoska, Carol Ph	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
Permpikul, Vejbaesy	63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
Pule, Ziningi	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																					+		B15,A66,B27,B14	LMX
Reed, Elaine F. PhD	65	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A66,B78,B82>	LMX
Rosen-Bronson, Sa		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
V.Brouard, M.Tonye	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Cw4,Cw6,A24,A203>	LMX
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Cw4,Cw6,A24,B78>	LMX
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX

Table 27. Individual laboratory results for Serum #1200 by Luminex - class I

	**** Serum 1200 ****																																								
Investigator	% POS	A1	A23	A80	B7	B8	A25	A26	A34	A36	B18	B35	B41	B42	B54	B55	B56	B59	B67	B73	Cw18	Cw7	Cw6	A24	A43	B62	B45	B60	B64	B65	B71	B72	B75	B61	B50	B76	B78	B48	B51	Other	Method
Abu Amin, Noryati	Multi	+	+	+	+	+						+		+										+		+											+			A11,A33,A3,Cw2	LMX
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX
Bengochea, Carrett	57	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw403,A66,B53>	LMX
Cecka, J. Michael P	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,B27,B82>	LMX
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	Cw4,B53,A33,B77>	LMX
Daniel, Dolly	28	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+															B15,B14,Bw4,Bw6>	LMX
Dunckley, Heather	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B53,B82,A33>	LMX
Esteves Kondo, Deb	52	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Cw4,A11,A66,B27>	LMX
Fort, Marylise	NT																																								LMX
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX
Hamdi, Nuha	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX
Hod, Reut	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+		+	+	+	Cw4,A11,A2,A66>	LMX
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX
Keming, Du	47	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			A11,A66,B27,B82>	LMX
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	A11,A66,B27,B82>	LMX
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX
Loewenthal , Ron M	58	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	Cw4,Cw403,B53>	LMX
McCluskey, James	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A9,B40>	LMX
Pancoska, Carol Ph	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX
Permpikul, Vejbaesy	57	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX
Pule, Ziningi	46	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+												+			Cw4,A11,B15,A66>	LMX
Reed, Elaine F. PhD	59	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B53>	LMX
Rosen-Bronson, Sa		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,B53,B82>	LMX
V.Brouard, M.Tonye	87	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	Cw4,B53,A33,B77>	LMX
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,B53,A33,B77>	LMX
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX

Table 28. Individual laboratory results for Serum #1197 - #1200 by Other, Flow Cytometry, and ELISA - class I

	**** Serum 1197 ****																	**** Serum 1198 ****														
Investigator	% POS	A11	A25	A26	A29	A34	A66										Other	% POS	A11	A25	A26	A32	A34	A66									Other	Method
Reed, Elaine F. PhD	66	+	+	+	+	+	+											92	+	+	+	+	+	+									B53,B35	Other
Eckels/CPMC,	96																	99															FC

Other = PRA

FC = Flow cytometry

	**** Serum 1199 ****																	**** Serum 1200 ****														
Investigator	% POS	A1	A11	A26	A29	A3	A30										Other	% POS	A1	A11	A23	A25	A26	A34									Other	Method
Reed, Elaine F. PhD	94	+	+	+	+	+	+										A66,A31,A33,A80	96	+	+	+	+	+	+									A66,A36,A80,B8	Other
Eckels/CPMC,	99																	99															FC

	**** Serum 1197 ****																	**** Serum 1198 ****																		
Investigator	% POS	A25	A26	A29	A34	A66	B57	B58	B63								Other	% POS	A11	A25	A26	A66	B35	B50	B51	B53	B63	B72	B75	B78	A32	B18	B52	Other	Method
Esteves Kondo, Del	20	+	+	+	+	+	+	+	+								A11,B54,B55,A80 >	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B61,B48,B62 >	Elisa
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+										+	+	+	+	+	+	+	+	+	+	+	+	+	+		Elisa

	**** Serum 1199 ****																		**** Serum 1200 ****																			
Investigator	% POS	A1	A11	A25	A26	A29	A3	A30	A31	A33	A34	A36	A66	A74	A80	B18	Other	% POS	A1	A11	A23	A25	A26	A34	A36	A66	A80	B18	B35	B37	B39	B41	B42	Other	Method
Esteves Kondo, Del	86	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B60,B61,B48 >	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B60,B61,B48 >	Elisa
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B61,B48,B78 >		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B60,B61,B48 >	Elisa

Table 29. Individual laboratory results for Serum #1197 by Luminex - class II

	**** Serum 1197 ****																													
Investigator	% POS	DR10	DR11	DR13	DR14	DP14	DP17	DP18	DP28	DPW2	DPW3	DR52	DR12	DR17	DR18	DR7	DP10	DP20	DP9	DPW6	DR9	DQ7	DQ9	DPW4	DQ6	DQ8	DP402	DPW1	Other	Method
Abu Amin, Noryati	Multi	+	+	+	+								+	+	+	+					+	+								LMX
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		+		DQA1*01:03, DPB1*04:02	LMX
Bengochea, Carretto	37	+	+	+	+	+	+	+	+	+	+	+	+			+					+				+		+		DR3,DR1404	LMX
Cecka, J. Michael P	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+			LMX
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+		DQB1*06:03, DQB1*06:01	LMX
Daniel, Dolly	21	+	+	+		+	+	+	+	+	+	+												+	+				DR3	LMX
Dunckley, Heather	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		DQ2	LMX
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+			+	+		DQA1*01:03, DRB1*09:01	LMX
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	DQ2,DPW5	LMX
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+						LMX
Hamdi, Nuha	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	DPW5	LMX
Keming, Du	28	+	+	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+				+					LMX
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX
McCluskey, James	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR103,DR3,DR4,DR6 >	LMX
Pancoska, Carol Ph	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX
Permpikul, Vejbaesy	44	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX
Pule, Ziningi	44	+	+	+	+								+									+	+		+				DQ3,DQ4	LMX
Reed, Elaine F. PhD	46	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+			+	+		DRB1*09:01, DQB1*06:01, DQB1*06:03	LMX
Rosen-Bronson, Sar		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	DQ2,DPW5, DRB1*09:01, DQB1*06:03, DQB1*06:01, DQA1*05	LMX
V.Brouard, M.Tonye	80	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+			LMX
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		LMX
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX

Table 30. Individual laboratory results for Serum #1198 - 1200 by Luminex - class II

	**** Serum 1198 ****								**** Serum 1199 ****									**** Serum 1200 ****					
Investigator	% POS	DR4	DR15	DR16	DPW1	DR51	DPW5	Other	% POS	DP18	DR103	DR14	DR18	DPW3	DR12	DPW1	Other	% POS	DQ2	DR7	DR52	Other	Method
Abu Amin, Noryati	Multi	+	+						0									Multi	+				LMX
Arnold, Paula PhD		+	+	+					0										+			DQA1*05:01	LMX
Bengochea, Carrett																		6	+	+			LMX
Cecka, J. Michael P	0								0									23	+				LMX
Chen, Dong-Feng P		+	+	+															+	+		DRB3*03:01	LMX
Daniel, Dolly	1	+							0									5	+				LMX
Dunckley, Heather	55	+	+	+					0									41	+	+	+	DR18	LMX
Eckels/CPMC,		+	+	+															+				LMX
Fort, Marylise		+	+	+	+	+	+	DQ7,DQ8,DQ9,DP14															LMX
Hahn, Amy B. PhD		+	+	+						+	+	+	+	+	+	+	DR1,DR4,DR8,DR9 >		+	+			LMX
Hamdi, Nuha	3	+	+	+	+				60	+	+	+	+	+	+	+	DR7	26	+	+			LMX
Holdsworth, Rhonda		+	+	+	+	+	+	DQA1*05, DQB1*06:03, DQB1*06:01											+	+	+	DR18,DQ5, DQB1*05:01, DRB3*03:01	LMX
Keming, Du																		5	+				LMX
Liu, Chang MD, PhD		+	+	+															+				LMX
McCluskey, James	64	+	+	+	+	+	+	DR2	22									48	+	+	+	DR18	LMX
Pancoska, Carol Ph	23	+	+	+		+			97									31	+	+			LMX
Permpikul, Vejbaesy																		26	+	+			LMX
Pule, Ziningi	11	+	+	+					0									6		+			LMX
Reed, Elaine F. PhD	9	+	+	+					0									7	+	+		DRB3*03:01	LMX
Rosen-Bronson, Sa		+	+	+															+				LMX
V.Brouard, M.Tonye	34	+	+	+	+				0									26	+	+	+	DR18	LMX
Vather/JHB,		+	+	+															+	+			LMX
Vather/Pinetown,		+	+	+					0										+	+	+	DR3	LMX

Table 31. Individual laboratory results for Serum #1198 - 1200 by NIH, Flow Cytometry, C1q, and Other - class II

	**** Serum 1197 ****									**** Serum 1198 ****				**** Serum 1999 ****			**** Serum 1200 ****				
Investigator	% POS	DR13							Other	% POS			Other	% POS		Other	% POS			Other	Method
Claas, F.H.J.	50	+								NT				NT			NT				STD
Reed, Elaine F. PhD	60									0				84			64				EXT

STD= NIH-Standard
EXT = NIH-Extended

	**** Serum 1197 ****									**** Serum 1198 ****				**** Serum 1999 ****			**** Serum 1200 ****				
Investigator	% POS	DP17	DP18	DP20	DP28	DPW3	DPW4	DPW6	Other	% POS				% POS		Other	% POS			Other	Method
Ekckels/CPMC	96									28				0			29				FC
Liu, Chang MD, PhD		+	+	+	+	+	+	+		NT				NT			NT				C1q

FC = Flow Cytometry

	**** Serum 1197 ****									**** Serum 1198 ****				**** Serum 1999 ****			**** Serum 1200 ****				
Investigator	% POS	DR13	DR10	DR11	DR12	DR14	DR17		Other	% POS	DR15	DR16	Other	% POS		Other	% POS	DQ2	DR7	Other	Method
Reed, Elaine F. PhD	70	+	+	+	+	+	+		DR7,DR18	17	+	+		0			27	+	+		Other

Other = PRA

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