

CELL EXCHANGE #416

MAY 14, 2020

Cells	1661-1664
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The results for Cell Exchange #416 are summarized in Table 7 - 11. Molecular typing results for individual laboratories are listed in Tables 12 – 19 for each sample and individual serological results for each sample are listed in Table 20. Eleven labs submitted low and/or high resolution class II results for

this study. We would like to thank each of them for sharing their findings and encourage other labs to do so as well. Once the criteria for grading is met (minimum 10 labs reporting for each resolution type), we will begin to grade individual class II results.

Cell 1661. The reported class I type for this sample from a Chinese donor was A*02:03-A*11:01-B*15:27-B*55:02-C*01:02-C*04:01. Good agreement ($\geq 90\%$) was achieved in allele assignments for all class I loci. Twelve labs submitted low and/or high resolution class II results for this sample, with the class II type reported as DRB1*04:06-DRB1*09:01-DRB4*01:03-DQA1*03:01-DQA1*03:02-DQB1*03:02-DQB1*03:03-DPA1*02:02-DPB1*05:01. Likely associations present in this cell were A*02:03-B*55:02-C*01:02 and A*11:01-B*15:27-C*04:01, observed exclusively in Asians, with respective HF = 0.00020 and 0.00051.

Cell 1662. The reported class I type for this sample from a Hispanic donor was A*02:01-A*24:02-B*35:14-B*44:02-C*04:01-C*05:01. Class I alleles were well assigned ($\geq 90\%$) by labs reporting at high resolution. The class II type was reported as DRB1*12:01-DRB1*16:02-DRB3*02:02-DRB5*02:02-DQA1*05:05-DQB1*03:01-DPA1*01:03-DPB1*02:01-DPB1*04:02. Likely haplotypes present in this sample were A*02:01-B*44:02-DRB1*12:01 and A*24:02-B*35:14-DRB1*16:02, with respective HF = 0.00064 and 0.00073, in Hispanic populations.

Cell 1663. The reported class I type for this cell from a Hispanic donor was A*11:12-A*31:01-B*18:01-B*40:02-C*03:06-C*07:01. This cell was previously typed as cell 1610 (2018). In this present retyping, class I allele assignments were once again reported in good agreement ($\geq 90\%$). The class II type was reported as DRB1*08:02-DRB1*11:01-DRB3*02:02-DQA1*04:01-DQA1*05:05-DQB1*03:01-DQB1*04:02-DPA1*01:03-DPB1*04:01-DPB1*04:02. The likely associations present in this cell were B*40*02-C*03:06 and B*18:01-C*07:01, observed in Hispanics, with respective HF = 0.00778 and 0.00779.

Cell 1664. The reported class I type for this cell from a donor of mixed Chinese/Filipino heritage was A*02:03-A*24:07-B*07-B*46:01-C*01:02-C*07:02. Good agreement ($\geq 90\%$) was achieved for all high resolution allele assignments, except for B*07. B*07:06 was assigned by 7 labs, 2 labs assigned B*07:05, and 1 lab assigned B*07:05:01G. The class II type was reported as DRB1*12:01-DRB1*14:04-DRB3*01:01-DQA1*01:04-DQA1*05:06-DQB1*03:01-DQB1*05:03-DPA1*02:02-DPB1*05:01. One association likely present in this cell was B*46:01-C*01:02. This is the most common association observed in Asians, with HF = 0.05797. The other association present may be B*07:05g-C*07:02, with HF = 0.000569 in Asians.

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Table 8: Summary of the 416th Cell Exchange - DNA Typing

Cell 1662

DNA Typing - class I		<u>14 labs High; 17 labs low- A</u>		<u>15 labs High; 17 labs low- B</u>		<u>14 labs High; 16 labs low- C</u>							
			%(n)		%(n)		%(n)						
	A*02:01:01:01	14(2)		B*35:14:01	27(4)	C*04:01:01	21(3)						
	A*02:01:01	7 (1)		B*35:14:01G	7 (1)	C*04:01P	7 (1)						
	A*02:01:01G	7 (1)		B*35:14	66(10)	C*04:01	71(10)						
	A*02:01	71(10)		B*35	100(17)	C*04	100(16)						
	A*02	100(17)											
DNA Typing - class I		<u>14 labs High; 17 labs low- A</u>		<u>14 labs High; 17 labs low- B</u>		<u>14 labs High; 16 labs low- C</u>							
			%(n)		%(n)		%(n)						
	A*24:02:01	21(3)		B*44:02:01:01	7 (1)	C*05:01:01:02	14(2)						
	A*24:02:01G	7 (1)		B*44:02:01	14(2)	C*05:01:01	7 (1)						
	A*24:02	71(10)		B*44:02:01G	7 (1)	C*05:01:01G	7 (1)						
	A*24	100(17)		B*44:02P	7 (1)	C*05:01	71(10)						
				B*44:02	64(9)	C*05	100(16)						
				B*44	100(17)								
DNA Typing - class II		<u>9 labs High; 9 labs low-DRB1</u>		<u>7 labs High; 6 labs low-DRB3/4/5</u>		<u>5 labs High; 8 labs Low-DQA1</u>		<u>8 labs High; 8 labs Low-DQB1</u>		<u>5 labs High; 6 labs Low-DPA1</u>		<u>7 labs High; 5 labs Low-DPB1</u>	
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*12:01:01	22(2)		DRB3*02:02:01	29(2)	DQA1*05:05:01	40(2)	DQB1*03:01:01:05	12(1)	DPA1*01:03:01	40(2)	DPB1*02:01:02	29(2)
	DRB1*12:01P	11(1)		DRB3*02:02	71(5)	DQA1*05:05	60(3)	DQB1*03:01:01	12(1)	DPA1*01:03	60(3)	DPB1*02:01P	29(2)
	DRB1*12:01	67(6)		DRB3*02	83(5)	DQA1*05	100(8)	DQB1*03:01	75(6)	DPA1*01	100(6)	DPB1*02:01	42(3)
	DRB1*12	100(9)		DRB3*PRESENT	17(1)			DQB1*03	100(8)			DPB1*02(DP201)	40(2)
												DPB1*02	60(3)
DNA Typing - class II		<u>9 labs High; 9 labs low-DRB1</u>		<u>7 labs High; 6 labs low-DRB3/4/5</u>								<u>7 labs High; 5 labs Low-DPB1</u>	
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*16:02:01	22(2)		DRB5*02:02:01	29(2)							DPB1*04:02:01	29(2)
	DRB1*16:02	78(7)		DRB5*02:02	71(5)							DPB1*04:02P	29(2)
	DRB1*16	100(9)		DRB5*02	83(5)							DPB1*04:02	42(3)
				DRB5*PRESENT	17(1)							DPB1*04(DP402)	40(2)
												DPB1*04	60(3)

Table 9: Summary of the 416th Cell Exchange - DNA Typing

Cell 1663

DNA Typing - class I	10 labs High; 17 labs low- A	%(n)	10 labs High; 17 labs low- B	%(n)	11 labs High; 16 labs low- C	%(n)
	A*11:12	100(10)	B*18:01:01	20(2)	C*03:06:01	27(3)
	A*11	100(17)	B*18:01:01G	10(1)	C*03:06	73(8)
			B*18:01	70(7)	C*03(Cw10)	6 (1)
			B*18	100(17)	C*03	94(15)

DNA Typing - class II	6 labs High; 9 labs low-DRB1	%(n)	4 labs High; 6 labs low-DRB3/4/5	%(n)	3 labs High; 8 labs Low-DQA1	%(n)	5 labs High; 8 labs Low-DQB1	%(n)	4 labs High; 5 labs Low-DPA1	%(n)	4 labs High; 5 labs Low-DPB1	%(n)
	DRB1*08:02:01	17(1)	DRB3*02:02:01	25(1)	DQA1*04:01:01	33(1)	DQB1*03:01:01	20(1)	DPA1*01:03:01	25(1)	DPB1*04:01:01	25(1)
	DRB1*08:02	83(5)	DRB3*02:02	75(3)	DQA1*04:01	67(2)	DQB1*03:01	80(4)	DPA1*01:03	75(3)	DPB1*04:01P	50(2)
	DRB1*08	100(9)	DRB3*02	100(6)	DQA1*04	100(8)	DQB1*03	100(8)	DPA1*01	100(5)	DPB1*04:01	25(1)
											DPB1*04(DP401)	40(2)
											DPB1*04	60(3)

Table 10: Summary of the 416th Cell Exchange - DNA Typing

Cell 1664

DNA Typing - class I	<u>11 labs High; 16 labs low- A</u>		<u>10 labs High; 17 labs low- B</u>		<u>10 labs High; 15 labs low- C</u>	
		%(n)		%(n)		%(n)
	A*02:03:01	27(3)	B*07:05:01	10(1)	C*01:02:01:01	10(1)
	A*02:03:01G	9 (1)	B*07:05:01G	10(1)	C*01:02:01	10(1)
	A*02:03	64(7)	B*07:06	70(7)	C*01:02:01G	10(1)
	A*02	100(16)	B*07:05	10(1)	C*01:02	70(7)
			B*07	100(17)	C*01	100(15)
DNA Typing - class I	<u>12 labs High; 16 labs low- A</u>		<u>10 labs High; 16 labs low- B</u>		<u>11 labs High; 15 labs low- C</u>	
		%(n)		%(n)		%(n)
	A*24:07:01	17(2)	B*46:01:01	30(3)	C*07:02:01:01	9 (1)
	A*24:07	83(10)	B*46:01	70(7)	C*07:02:01	9 (1)
	A*24	100(16)	B*46	100(16)	C*07:02:01G	18(2)
					C*07:02	64(7)
					C*07	100(15)

DNA Typing - class II	<u>6 labs High; 8 labs low-DRB1</u>		<u>4 labs High; 5 labs low-DRB3/4/5</u>		<u>3 labs High; 7 labs Low-DQA1</u>		<u>5 labs High; 7 labs Low-DQB1</u>		<u>3 labs High; 5 labs Low-DPA1</u>		<u>4 labs High; 4 labs Low-DPB1</u>	
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*12:01:01	17(1)	DRB3*01:01:02	25(1)	DQA1*01:04:01	33(1)	DQB1*03:01:01	20(1)	DPA1*02:02:02	33(1)	DPB1*05:01:01	25(1)
	DRB1*12:01P	17(1)	DRB3*01:01P	25(1)	DQA1*01:04	67(2)	DQB1*03:01	80(4)	DPA1*02:02	67(2)	DPB1*05:01P	25(1)
	DRB1*12:01	67(4)	DRB3*01:01	50(2)	DQA1*01	100(7)	DQB1*03	100(7)	DPA1*02	100(5)	DPB1*05:01	50(2)
	DRB1*12	100(8)	DRB3*01	100(5)							DPB1*05	100(4)
DNA Typing - class II	<u>6 labs High; 8 labs low-DRB1</u>		<u>3 labs High; 7 labs Low-DQA1</u>		<u>5 labs High; 7 labs Low-DQB1</u>							
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*14:04	100(6)	DQA1*05:06	100(3)	DQB1*05:03:01	20(1)						
	DRB1*14	100(8)	DQA1*05	100(7)	DQB1*05:03	80(4)						
					DQB1*05	100(7)						

Table 11. Summary of the 416th Cell Exchange (Cell #1661- 1664)

Serological typing

(Chinese)	
Cell 1661	
(4 Samples Typed)	
A2	100.0%
	[100.0%]
A11	100.0%
	[100.0%]
B62	75.0%
B15	25.0%
	[100.0%]
B55	100.0%
	[100.0%]
	[0.0%]
Bw6	100.0%
Others Found	

(Hispanic)	
Cell 1662	
(6 Samples Typed)	
A2	100.0%
	[100.0%]
A24	83.3%
	[83.3%]
B35	83.3%
B44	100.0%
	[100.0%]
	[0.0%]
	[0.0%]
Bw4	100.0%
Bw6	83.3%
Others Found	
Cw3	16.7%

(Hispanic)	
Cell 1663	
(2 Samples Typed)	
A11	100.0%
	[100.0%]
A31	100.0%
	[100.0%]
B18	100.0%
B61	50.0%
B40	50.0%
	[100.0%]
	[0.0%]
Bw6	100.0%
Others Found	

(Mixed)	
Cell 1664	
(4 Samples Typed)	
A2	100.0%
	[100.0%]
A24	75.0%
	[75.0%]
B7	100.0%
	[100.0%]
B46	50.0%
Cw1	25.0%
Bw6	100.0%
Others Found	
B81	25.0%

Table 12. Individual laboratory results for Cell #1661 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*11	*15	*55	*01	*04	*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	SSP SSO	
725	*02	*11	*15	*55	*01	*04							SSO	
731	*02	*11	*15	*55	*01	*04	*02:03:01	*11:01	*15:27:01	*55:02	*01:02	*04:01	SSP SSO SBT RT-PCR	
745							*02:03:01	*11:01:01:01	*15:27:01	*55:02:01	*01:02:01	*04:01:01	SSP SSO SBT NGS	
747	*02	*11	*15	*55	*01	*04	*02:03:01	*11:01:01:01	*15:27:01	*55:02:01	*01:02:01:01	*04:01:01	SSP SSO NGS	
762							*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	NGS	
771	*02	*11	*15	*55	*01	*04	*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	SSO NGS	
774	*02	*11	*15	*55	*01	*04			*15:27	*55:02				B*55:62 B*55:65
3186	*02	*11	*15	*55	*01	*04							SSO	
														C*01:127 A*11:263 C*01:85 C*01:142 C*01:150 C*01:151 C*01:164 C*01:172 C*04:322 C*04:327 C*04:330 C*04:339 C*04:348 C*04:358 C*04:375 C*04:380 C*04:388 C*04:390 C*04:391 C*04:394 C*04:395 C*04:397 C*04:398 A*11:313Q A*11:320 A*11:324 A*11:328 C*01:182 A*11:270 A*11:278 A*11:280 A*11:295 A*11:303 A*11:306 C*01:173 C*01:174 C*04:30 C*04:82 C*04:226 C*04:275 C*04:277 C*04:298 C*04:306 C*04:308 C*04:320 C*04:321 A*11:316
3545	*02	*11	*15	*55	*01	*04	*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	SSO SBT	
3632	*02	*11	*15	*55	*01	*04	*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	SSP SSO	
3808	*02	*11	*15	*55	*01	*04							SSO	
4079							*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	SSP NGS	
4251	*02	*11	*15	*55	*01	*04	*02:03	*11:01:01G	*15:27	*55:02	*01:02:01G	*04:01P	SSO SBT	
5133							*02:03:01	*11:01:01	*15:27:01	*55:02:01	*01:02:01:01	*04:01:01	NGS	
5214	*02	*11	*15(B62)	*55	*01	*04							SSO	
5462	*02	*11	*15	*55	*01	*04	*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	SSO NGS	
6649	*02	*11	*15	*55									SSO	
8001	*02	*11	*15	*55	*01	*04			*15:27				SSP SSO	
8043	*02	*11	*15	*55	*01	*04	*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	SSP SSO	
8103	*02	*11	*15	*55	*01	*04							SSO	
													SSP SSO SBT NGS RT-PCR	
8119	*02	*11	*15	*55	*01	*04								

Table 13a: Individual laboratory results for Cell #1661 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*04	*09	4*PRESENT	4*PRESENT	*03	*03	*03	*03	*02		*05		SSP SSO NGS	
771	*04	*09			*03		*03	*03					SSO NGS	
3186	*04	*09	4*01	4*01	*03	*03	*03	*03	*02	*02	*05	*05	SSO	
3545	*04	*09											SSO SBT	
3632	*04	*09	4*01		*03	*03	*03	*03	*02		*05		SSP SSO	
3808	*04	*09			*03	*03	*03	*03	*02	*02	*05	*05	SSO	
5462	*04	*09	4*01	4*01	*03	*03	*03	*03	*02		NT		SSO NGS	
8001	*04	*09	4*01		*03	*03	*03	*03					SSP SSO	
8103	*04	*09	4*01	4*01	*03	*03	*03	*03	*02	*02	*05	*05	SSO	
8119	*04	*09	4*01		*03	*03	*03	*03			*05		SSP SSO SBT NGS RT-PCR	

Table 13b: Individual laboratory results for Cell #1661 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*04:06:01	*09:01:02	4*01:03:01	4*01:03:02	*03:01:01	*03:02	*03:02:01:01	*03:03:02	*02:02:02		*05:01:01		SSP SSO NGS	DRB1*09:31 DQB1*03:289
771	*04:06	*09:01					*03:02	*03:03					SSO NGS	
3545	*04:06	*09:01											SSO SBT	DRB1*09:21 DRB1*09:31
3632	*04:06	*09:01	4*01:03		*03:01	*03:02	*03:02	*03:03	*02:02		*05:01P		SSP SSO	
4079	*04:06	*09:01	4*01:03		*03:01	*03:02	*03:02	*03:03	*02:02		*05:01		SSP NGS	
5133	*04:06:01	*09:01:02	4*01:03:01	4*01:03:02	*03:01:01	*03:02	*03:02:01	*03:03:02	*02:02:02		*05:01:01		NGS	DRB1*09:21 DRB1*09:31 DQB1*03:289
5462	*04:06	*09:01P	4*01:03	4*01:03	*03:01	*03:02	*03:02	*03:03	*02:02		*05:01		SSO NGS	DRB1*09:31
8001	*04:06	*09:01	4*01:03				*03:02	*03:03			*05:01		SSP SSO	

Table 14. Individual laboratory results for Cell #1662 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*24	*35	*44	*04	*05	*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	SSP SSO	
725	*02	*24	*35	*44	*04	*05							SSO	
731	*02	*24	*35	*44	*04	*05	*02:01	*24:02	*35:14:01	*44:02	*04:01	*05:01	SSP SSO SBT RT-PCR	
745							*02:01:01:01	*24:02:01	*35:14:01	*44:02:01	*04:01:01	*05:01:01:02	SSP SSO SBT NGS	
747	*02	*24	*35	*44	*04	*05	*02:01:01:01	*24:02:01	*35:14:01	*44:02:01:01	*04:01:01	*05:01:01:02	SSP SSO NGS	
762							*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	NGS	
771	*02	*24	*35	*44	*04	*05	*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	SSO NGS	
774	*02	*24	*35	*44	*04	*05			*35:14					
3186	*02	*24	*35	*44	*04	*05							SSO	
														A*02:686 A*02:689 A*02:704 A*02:742 A*02:744 A*02:753 A*02:761 A*02:762 A*02:763 A*02:810 A*02:812 A*02:819 A*24:352 A*24:353 A*24:402 A*24:418 A*24:419 A*24:422 C*04:30 C*04:82 C*04:226 C*04:275 C*04:277 C*04:298 C*04:306 C*04:308 C*04:320 C*04:321 C*04:380 C*04:388 C*04:390 C*04:391 C*04:395 C*04:397 C*04:398 A*02:795Q A*02:830 A*02:844 A*02:846 A*02:852 A*02:853 A*02:864 A*24:466 A*24:469 A*24:470 B*44:344 B*44:437 B*44:457 B*44:464 B*44:467 B*44:468 B*44:470 B*44:473 C*05:212 C*05:222 B*35:390N A*02:629 A*02:642 A*02:665 A*02:716 A*02:719 A*02:722 A*02:724 A*02:740+
3545	*02	*24	*35	*44	*04	*05	*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	SSO SBT	
3632	*02	*24	*35	*44	*04	*05	*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	SSP SSO	
3808	*02	*24	*35	*44	*04	*05							SSO	
4079							*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	SSP NGS	
4251	*02	*24	*35	*44	*04	*05	*02:01:01G	*24:02:01G	*35:14:01G	*44:02:01G	*04:01P	*05:01:01G	SSO SBT	
5133							*02:01:01	*24:02:01	*35:14:01	*44:02:01	*04:01:01	*05:01:01	NGS	
5214	*02	*24	*35	*44	*04	*05							SSO	
5462	*02	*24	*35	*44	*04	*05	*02:01	*24:02	*35:14	*44:02P	*04:01	*05:01	SSO NGS	B*44:470
6649	*02	*24	*35	*44									SSO	
8001	*02	*24	*35	*44	*04	*05							SSP SSO	
8043	*02	*24	*35	*44	*04	*05							SSP SSO	
8103	*02	*24	*35	*44	*04	*05	*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	SSP SSO	
8119							*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	SSP SSO SBT NGS RT-PCR	

Table 15a: Individual laboratory results for Cell #1662 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*12	*16	3*PRESENT	5*PRESENT	*05		*03	*03	*01		*02	*04	SSP SSO NGS	
771	*12	*16			*05		*03						SSO NGS	
3186	*12	*16	3*02	5*02	*05	*05	*03	*03	*01	*01	*02(DP201)	*04(DP402)	SSO	
3545	*12	*16											SSO SBT	
3632	*12	*16	3*02	5*02	*05		*03		*01		*02	*04	SSP SSO	
3808	*12	*16			*05	*05	*03	*03	*01	*01	*02(DP201)	*04(DP402)	SSO	
5462	*12	*16	3*02	5*02	*05		*03		*01		NT	NT	SSO NGS	
8001	*12	*16	3*02	5*02	*05		*03						SSP SSO	
8103	*12	*16	3*02	5*02	*05	*05	*03	*03	*01	*01	*02	*04	SSO	

Table 15b: Individual laboratory results for Cell #1662 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*12:01:01	*16:02:01	3*02:02:01	5*02:02:01	*05:05:01		*03:01:01	*03:01:01	*01:03:01		*02:01:02	*04:02:01	SSP SSO NGS	DRB1*12:10 DQB1*03:276N DPB1*105:01 DPB1*665:01 DPB1*416:01
771	*12:01	*16:02					*03:01						SSO NGS	
3545	*12:01	*16:02											SSO SBT	DRB1*12:10
3632	*12:01	*16:02	3*02:02	5*02:02	*05:05		*03:01		*01:03		*02:01P	*04:02P	SSP SSO	
4079	*12:01	*16:02	3*02:02	5*02:02	*05:05		*03:01		*01:03		*02:01	*04:02	SSP NGS	
5133	*12:01:01	*16:02:01	3*02:02:01	5*02:02:01	*05:05:01		*03:01:01:05	*03:01:01	*01:03:01		*02:01:02	*04:02:01	NGS	DRB1*12:10 DPB1*105:01 DPA1*01:03:08 DPB1*416:01 DPB1*665:01
5462	*12:01P	*16:02	3*02:02	5*02:02	*05:05		*03:01		*01:03		*02:01P	*04:02P	SSO NGS	DPB1*416:01 DPB1*105:01 DPB1*665:01 DRB1*12:10
8001	*12:01	*16:02	3*02:02	5*02:02			*03:01				*02:01	*04:02	SSP SSO	
8119	*12:01	*16:02	3*02:02	5*02:02			*03:01				*02:01	*04:02	SSP SSO SBT NGS RT-PCR	DPB1*416:01 DPB1*105:01 DPB1*665:01 DRB1*12:10

16. Individual laboratory results for Cell #1663 - Class I

Low Resolution						High Resolution							
HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		Method	Other Alleles
*11	*31	*18	*40	*03	*07	*11:12	*31:01	*18:01	*40:02	*03:06	*07:01	SSP SSO	
*11	*31	*18	*40	*03	*07							SSO	
*11	*31	*18	*40	*03	*07	*11:12	*31:01:02	*18:01	*40:02	*03:06:01	*07:01	SSP SSO SBT RT-PCR	
						*11:12	*31:01:02:01	*18:01:01	*40:02:01	*03:06:01	*07:01:01	SSP SSO SBT NGS	
NT												SSP SSO NGS	
						*11:12	*31:01	*18:01	*40:02	*03:06	*07:01	NGS	
*11	*31	*18	*40	*03	*07	*11:12	*31:01	*18:01	*40:02	*03:06	*07:01	SSO NGS	
*11	*31	*18	*40	*03	*07								
*11	*31	*18	*40	*03	*07							SSO	
													A*31:119 B*18:17N B*18:131 B*18:144 B*18:145 B*18:159 B*18:160 B*18:177 B*18:181 B*40:303 B*40:356 B*40:384 B*40:405 B*40:442 C*07:06 C*07:18 C*07:343 C*07:419 C*07:458 C*07:591 C*07:610 C*07:615 C*07:617 C*07:618 C*07:619 C*07:657 C*07:682 C*07:687 C*07:696 C*07:721 A*31:135 C*07:781 C*07:782 +
*11	*31	*18	*40	*03	*07	*11:12	*31:01	*18:01	*40:02	*03:06	*07:01	SSO SBT	
*11	*31	*18	*40	*03	*07	*11:12	*31:01	*18:01	*40:02	*03:06	*07:01	SSP SSO	
*11	*31	*18	*40	*03	*07				*40:02:01G		*07:01:01G	SSO	
NT												SSP NGS	
*11	*31	*18	*40	*03	*07	*11:12	*31:01:02G	*18:01:01G	*40:02:01G	*03:06	*07:01:01G	SSO SBT	
						*11:12	*31:01:02:01	*18:01:01	*40:02:01:01	*03:06:01	*07:01:01:16	NGS	
*11	*31	*18	*40(B61)	*03(Cw10)	*07							SSO	
*11	*31	*18	*40	*03	*07	*11:12	*31:01	*18:01	*40:02	*03:06	*07:01	SSO NGS	
*11	*31	*18	*40									SSO	
*11	*31	*18	*40	*03	*07				*40:02	*03:06		SSP SSO	
*11	*31	*18	*40	*03	*07							SSP SSO	
*11	*31	*18	*40	*03	*07							SSO	
												SSP SSO SBT	
*11	*31	*18	*40	*03	*07							NGS RT-PCR	

Table 17a: Individual laboratory results for Cell #1663 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*08	*11			*04	*05	*03	*04					SSO NGS	
774														
3186	*08	*11	3*02	NP	*04	*05	*03	*04	*01	*01	*04(DP401)	*04(DP402)	SSO	
3545	*08	*11											SSO SBT	
3632	*08	*11	3*02		*04	*05	*03	*04	*01		*04	*04	SSP SSO	
3808	*08	*11			*04	*05	*03	*04	*01	*01	*04(DP401)	*04(DP402)	SSO	
5462	*08	*11	3*02	NP	*04	*05	*03	*04	*01	*01	NT	NT	SSO NGS	
8001	*08	*11	3*02		*04	*05	*03	*04					SSP SSO	
8103	*08	*11	3*02	3*02	*04	*05	*03	*04	*01	*01	*04	*04	SSO	
													SSP SSO SBT	
8119	*08	*11	3*02		*04	*05	*03	*04			*04	*04	NGS RT-PCR	

Table 17b: Individual laboratory results for Cell #1663 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*08:02	*11:01					*03:01	*04:02					SSO NGS	
3545	*08:02	*11:01											SSO SBT	
3632	*08:02	*11:01	3*02:02		*04:01	*05:05	*03:01	*04:02	*01:03		*04:01P	*04:02P	SSP SSO	
3808									*01:03	*01:03			SSO	
4079	NT												SSP NGS	
														DPB1*105:01 DPB1*126:01 DPB1*665:01 DPB1*939:01N
5133	*08:02:01	*11:01:01	3*02:02:01		*04:01:01	*05:05:01	*03:01:01	*04:02:01	*01:03:01		*04:01:01	*04:02:01	NGS	
5462	*08:02	*11:01	3*02:02	NP	*04:01	*05:05	*03:01	*04:02	*01:03	*01:03	*04:01P	*04:02P	SSO NGS	DPB1*126:01 DPB1*105:01 DPB1*665:01
8001	*08:02	*11:01	3*02:02				*03:01	*04:02			*04:01	*04:02	SSP SSO	

Table 18. Individual laboratory results for Cell #1664 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*24	*07	*46	*01	*07	*02:03	*24:07	*07:06	*46:01	*01:02	*07:02	SSP SSO	
725	*02	*24	*07	*46	*01	*07							SSO	
731	*02	*24	*07	*46	*01	*07	*02:03:01	*24:07	*07:05:01	*46:01:01	*01:02	*07:02	SSP SSO SBT RT-PCR	
745							*02:03:01	*24:07:01	*07:06	*46:01:01	*01:02:01	*07:02:01	SSP SSO SBT NGS	
747	NT												SSP SSO NGS	
762							*02:03	*24:07	*07:06	*46:01	*01:02	*07:02	NGS	
771	*02	*24	*07	*46	*01	*07	*02:03	*24:07	*07:06	*46:01	*01:02	*07:02	SSO NGS	
774	*02	*24	*07	*46	*01	*07		*24:07						A*24:288
3186	*02	*24	*07	*46	*01	*07							SSO	
														B*07:06 B*46:39 C*01:85 C*01:127 C*01:142 C*01:150 C*01:151 C*01:164 C*01:172 C*01:173 C*01:174 C*07:50 C*07:349 C*07:566 C*07:592 C*07:594 C*07:595 C*07:596 C*07:612 C*07:665 C*07:666 C*07:667 C*07:684 C*07:688 C*07:703 C*07:704 C*07:722 C*07:767 C*07:801 C*07:807N C*07:809 C*07:810 B*07:324 C*01:182 C*07:736 C*07:741 C*07:769 C*07:779 C*07:783 C*07:789 C*07:791
3545	*02	*24	*07	*46	*01	*07	*02:03	*24:07	*07:05	*46:01	*01:02	*07:02	SSO SBT	
3632	*02	*24	*07	*46	*01	*07	*02:03	*24:07	*07:06	*46:01	*01:02	*07:02	SSP SSO	
3808	*02	*24	*07	*46	*01	*07	*02:03:01G	*24:07				*07:02:01G	SSO	
4079	NT												SSP NGS	
4251	*02	*24	*07	*46	*01	*07	*02:03	*24:07	*07:05:01G	*46:01	*01:02:01G	*07:02:01G	SSO SBT	
5133							*02:03:01	*24:07:01	*07:06	*46:01:01	*01:02:01:01	*07:02:01:01	NGS	
5214	*02	*24	*07	*46	*01	*07							SSO	
5462	*02	*24	*07	*46	*01	*07	*02:03	*24:07	*07:06	*46:01	*01:02	*07:02	SSO NGS	
6649	*02	*24	*07	*46									SSO	
8001	*02	*24	*07	*46	*01	*07							SSP SSO	
8043	*02	*24	*07	*46	*01	*07							SSP SSO	
8103	*02	*24	*07	*46	*01	*07							SSO	
8119	NT												SSP SSO SBT NGS RT-PCR	

Table 19a: Individual laboratory results for Cell #1664 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*12	*14			*01	*05	*03	*05					SSO NGS	
3186	*12	*14	3*01	3*01	*01	*05	*03	*05	*02	*02	*05	*05	SSO	
3545	*12	*14											SSO SBT	
3632	*12	*14	3*01		*01	*05	*03	*05	*02		*05		SSP SSO	
3808	*12	*14			*01	*05	*03	*05	*02	*02	*05	*05	SSO	
5462	*12	*14	3*01		*01	*05	*03	*05	*02		NT		SSO NGS	
8001	*12	*14	3*01		*01	*05	*03	*05					SSP SSO	
8103	*12	*14	3*01	3*01	*01	*05	*03	*05	*02	*02	*05	*05	SSO	
8119	NT												SSP SSO SBT NGS RT-PCR	

Table 19b: Individual laboratory results for Cell #1664 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*12:01	*14:04					*03:01	*05:03					SSO NGS	
3545	*12:01	*14:04											SSO SBT	DRB1*12:10
3632	*12:01	*14:04	3*01:01		*01:04	*05:06	*03:01	*05:03	*02:02		*05:01P		SSP SSO	
4079	NT												SSP NGS	
5133	*12:01:01	*14:04	3*01:01:02		*01:04:01	*05:06	*03:01:01	*05:03:01	*02:02:02		*05:01:01		NGS	
5462	*12:01P	*14:04	3*01:01P		*01:04	*05:06	*03:01	*05:03	*02:02		*05:01		SSO NGS	DRB1*12:10 DRB3*01:62
8001	*12:01	*14:04	3*01:01				*03:01	*05:03			*05:01		SSP SSO	

Table 20. Individual laboratory results for Cell #1661-1664 by serology

Investigator	Days Old	Cell No 1661 (Chinese)							Cell No 1662 (Hispanic)							Cell No 1663 (Hispanic)						Cell No 1664 (Mixed)									
		Viab %	A2	A11	B62	B55	Bw6	OTHERS	Viab %	A2	A24	B35	B44	Bw4	Bw6	OTHERS	Viab %	A11	A31	B18	B61	Bw6	OTHERS	Viab %	A2	A24	B7	B46	Cw1	Bw6	OTHERS
Cecka, J. Mic	3	>95	+	+	+	+	+		>95	+	+	+	+	+	+		>95	+	+	+	+	+		>95	+	+	+	+	+		
Fort, Marylis	3	80	+	+	+	+	+		80	+	+	+	+	+	+									NT							
Loewenthal ,	6								NT								NT							NT							
Meyer, Pieter		0							60	+			+	+			0							60	+		+		+		
Permpikul, Ve	7								NT								NT							NT							
Shai, Isaac	15	NT							82	+	+	+	+	+	+	Cw3	NT							80	+	+	+		+	+	B81
Villard, Jean	6	100	+	+	B15	+	+		100	+	+	+	+	+	+																
Walsh, Lisa	3	90	+	+	+	+	+		90	+	+	+	+	+	+		95	+	+	+	B40	+		90	+	+	+	+	+		