

CELL EXCHANGE #411

JULY 16, 2019

Cells	1641-1644
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The results for Cell Exchange #411 are summarized in Table 7 and Table 8. Molecular typing results for individual laboratories are listed in Tables 9 -12 for each sample and individual serological results for each sample are listed

in Table 13. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Cell 1641. The reported consensus for this cell from a Hispanic donor is A*01:01(A1)-A*69:01(A28)-B*18:01(B18)-B*55:01(B55)-C*01:02-C*12:03. Likely associations present in this cell are A*01:01-B*18:01-C*12:03 and A*69:01-B*55:01-C*01:02, observed in Hispanics, with respective HF = 0.00051 and 0.00253. Good agreement (100%) was achieved among DNA labs in the reporting of high and low resolutions class I results. Among labs reporting at high resolution, 5 labs assigned A*69:01:01:01, 4 labs assigned A*01:01:01:01, B*18:01:01, C*01:02:01, and C*12:03:01:01. B*55:01:01 was reported by 3 labs. A1 (100%), A28 (A69) (100%), B18 (100%), and B55 (83%) were well detected by serology.

Cell 1643. The reported consensus for this cell from a Filipino donor is A*24:02(A24)-A*24:07-B*15:02(B15)-B*57:01(B57)-C*04:01-C*06:02. One likely association present in this cell is A*24:07-B*15:02, observed in Asian populations, with HF = 0.00091. Interestingly, the other likely association present, A*24:02-B*57:01, is not observed in Asians, but in European Caucasians, with HF = 0.00232. Good (100%) agreement was achieved among DNA labs in the reporting of class I specificities. Among the labs reporting by high resolution, 4 labs reported A*24:07:01 and B*57:01:01 and 3 labs reported A*24:02:01, B*15:02:01, C*04:01:01, and C*06:02:01:01. A24 (100%), B15 (B75) (80%), and B57 (80%) were assigned by serology. Two labs assigned B62 as the B15 split, instead of B75.

Cell 1642. The reported consensus for this cell from a Hispanic donor is A*02:01(A2)-A*29:02(A29)-B*44:03(B44)-B*51:13(B51)-C*15:02-C*16:01. From family studies, the class I haplotypes present in this cell were determined to be A*02:01-B*51:13-C*15:02 and A*29:02-B*44:03-C*16:01. This cell has been examined a number of times in the Exchange over the years as cells 1562 (2016), 1496 (2013), 1434 (2011), 1371 (2009), 1340 (2008), 1302 (2007), and 1271 (2006). In this present retyping, good agreement (100%) was achieved in the class I assignments for this cell among labs reporting high and low resolution results. Among labs reporting by high resolution, A*02:01:01, A*29:02:01:01, B*44:03:01, C*15:02:01:01, and C*16:01:01:01 were each assigned by 4 labs, while B*51:13:01 was reported by 5 labs. Good agreement was also achieved among serology labs, as labs reported A2 (100%), A29 (100%), B44 (100%), and B51 (83%).

Cell 1644. The reported consensus for this cell from a Caucasian donor is A*01:01(A1)-A*02:01(A2)-B*08:01(B8)-B*44:02(B44)-C*05:01-C*07:01. Likely associations present in this cell are A*01:01-B*08:01-C*07:01 and A*02:01-B*44:02-C*05:01. Each are commonly observed across all populations, with respective HF = 0.09556 and 0.05370, in Caucasians. Good agreement (100%) was achieved among labs in the reporting of high and low resolutions typing results for this cell. Among labs reporting by high resolution, A*01:01:01:01, A*02:01:01, B*08:01:01:01, B*44:02:01, C*05:01:01:02, and C*07:01:01:06 were each reported by 3 labs. Good agreement was also achieved among serology labs as A1, A2, B8, and B44 were each reported in complete consensus.

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Table 7. Summary of the 411th Cell Exchange (Cell #1641-1644)

DNA typing

Cell 1641	
18 low/13 high labs - A	%(n)
A*01:01:01:01	31(4)
A*01:01:01G	15(2)
A*01:01	54(7)
A*01	100(18)
18 low/13 high labs - A	%(n)
A*69:01:01:01	38(5)
A*69:01	62(8)
A*69	100(18)
18 low/13 high labs - B	%(n)
B*18:01:01	31(4)
B*18:01:01G	15(2)
B*18:01	54(7)
B*18	100(18)
18 low/13 high labs - B	%(n)
B*55:01:01:01	8 (1)
B*55:01:01	15(2)
B*55:01:01G	15(2)
B*55:01	62(8)
B*55	100(18)
17 low/13 high Labs - C	%(n)
C*01:02:01	31(4)
C*01:02:01G	8 (1)
C*01:02	61(8)
C*01	100(17)
17 low/13 high Labs - C	%(n)
C*12:03:01:01	31(4)
C*12:03:01G	8 (1)
C*12:03	61(8)
C*12	100(17)

Cell 1642	
18 low/13 high labs - A	%(n)
A*02:01:01:01	23(3)
A*02:01:01	8 (1)
A*02:01:01G	8 (1)
A*02:01	61(8)
A*02	100(18)
18 low/13 high labs - A	%(n)
A*29:02:01:01	31(4)
A*29:02:01G	8 (1)
A*29:02	61(8)
A*29	100(18)
18 low/14 high labs - A	%(n)
B*44:03:01:01	14 (2)
B*44:03:01	14 (2)
B*44:03:01G	7 (1)
B*44:03	64(9)
B*44	100(18)
18 low/15 high labs - B	%(n)
B*51:13:01	33(5)
B*51:13	67(10)
B*51	100(18)
17 low/13 high Labs - C	%(n)
C*15:02:01:01	31(4)
C*15:02:01G	15(2)
C*15:02	54(7)
C*15	100(17)
17 low/13 high Labs - C	%(n)
C*16:01:01:01	31(4)
C*16:01:01G	15 (2)
C*16:01	54(7)
C*16	100(17)

Cell 1643	
16 low/10 high labs - A	%(n)
A*24:02:01:01	20(2)
A*24:02:01	10(1)
A*24:02:01G	10(1)
A*24:02P	10(1)
A*24:02	50(5)
A*24	100(16)
15 low/12 high labs - A	%(n)
A*24:07:01	33(4)
A*24:07	67(8)
16 low/12 high labs - B	%(n)
B*15:02:01:01	17(2)
B*15:02:01	8 (1)
B*15:02:01G	8 (1)
B*15:02	67(8)
B*15(B75)	12(2)
B*15	88(14)
16 low/10 high labs - B	%(n)
B*57:01:01:01	10(1)
B*57:01:01	30(3)
B*57:01	60(6)
B*57	16(100)
15 low/10 high Labs - C	%(n)
C*04:01:01	30(3)
C*04:01P	10(1)
C*04:01	60(6)
C*04	100(15)
15 low/10 high Labs - C	%(n)
C*06:02:01:01	30(3)
C*06:02:01G	10(1)
C*06:02	60(6)
C*06	100(15)

Cell 1644	
16 low/10 high labs - A	%(n)
A*01:01:01:01	30(3)
A*01:01:01G	10(1)
A*01:01	60(6)
A*01	100(16)
16 low/10 high labs - A	%(n)
A*02:01:01:01	20(2)
A*02:01:01	10(1)
A*02:01:01G	10(1)
A*02:01	60(6)
A*02	100(16)
16 low/10 high labs - A	%(n)
B*08:01:01:01	30(3)
B*08:01:01G	20(2)
B*08:01	50(5)
B*08	100(16)
16 low/10 high labs - A	%(n)
B*44:02:01:01	10(1)
B*44:02:01	20(2)
B*44:02:01G	20(2)
B*44:02	50(5)
B*44	100(16)
15 low/10 high labs - C	%(n)
C*05:01:01:02	30(3)
C*05:01:01G	10(1)
C*05:01	60(6)
C*05	100(15)
15 low/11 high labs - C	%(n)
C*07:01:01:06	27(3)
C*07:01:01G	18(2)
C*07:01	55(6)
C*07	100(15)

Table 9. Individual laboratory results for Cell #1641

Low Resolution														
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		Method	Other Alleles
278	*01	*69	*18	*55	*01	*12	*01:01	*69:01	*18:01	*55:01	*01:02	*12:03		
725	*01	*69	*18	*55	*01	*12							SSO	
731	*01	*69	*18	*55	*01	*12	*01:01:01G	*69:01:01:01	*18:01:01G	*55:01:01G	*01:02	*12:03	SSP SSO SBT	A*01:100 A*69:02
745							*01:01:01:01	*69:01:01:01	*18:01:01	*55:01:01	*01:02:01	*12:03:01:01	SSP SBT NGS	
747	*01	*69	*18	*55	*01	*12	*01:01:01:01	*69:01:01:01	*18:01:01	*55:01:01	*01:02:01	*12:03:01:01	SSP SSO NGS	
762							*01:01:01:01	*69:01:01:01	*18:01:01	*55:01	*01:02:01	*12:03:01:01	NGS	
771	*01	*69	*18	*55	*01	*12	*01:01	*69:01	*18:01	*55:01	*01:02	*12:03	SSP SSO	
774	*01	*69	*18	*55	*01	*12							SSP SSO	
3186	*01	*69	*18	*55	*01	*12							SSO	
														A*01:248Q A*01:251 A*01:252 A*01:274 A*01:276 A*01:277 A*01:280 A*01:281 A*01:291 A*01:295 A*01:296 B*18:159 B*18:160 B*55:91 B*55:97N C*01:164 C*01:172 C*01:173 C*01:174 A*01:234 A*01:237 B*18:17N B*18:131 B*18:144 B*18:145 B*55:85 C*01:85 C*01:127 C*01:142 C*01:150 C*01:151 C*12:143 C*12:220 C*12:245 C*12:262
3545	*01	*69	*18	*55	*01	*12	*01:01	*69:01	*18:01	*55:01	*01:02	*12:03	SSO SBT	
3632	*01	*69	*18	*55	*01	*12	*01:01	*69:01	*18:01	*55:01	*01:02	*12:03	SSP SSO	
3808	*01	*69	*18	*55	*01	*12							SSP SBT	
4079	*01	*69	*18	*55	*01	*12	*01:01	*69:01	*18:01	*55:01	*01:02	*12:03	SSP SSO	B*55:02 C*01:40 C*01:44
4251	*01	*69	*18	*55	*01	*12	*01:01:01G	*69:01	*18:01:01G	*55:01:01G	*01:02:01G	*12:03:01G	SSO SBT	
5133							*01:01:01:01	*69:01:01:01	*18:01:01	*55:01:01:01	*01:02:01	*12:03:01:01	NGS	
5214	*01	*69	*18	*55	*01	*12							SSO	
5462	*01	*69	*18	*55	*01	*12	*01:01	*69:01	*18:01	*55:01	*01:02	*12:03	SSO NGS	
5642	*01	*69	*18	*55	*01	*12							SSP	
6649	*01	*69	*18	*55									SSO	
8001	*01	*69	*18	*55	*01	*12							SSO	
8043	*01	*69	*18	*55	*01	*12	*01:01	*69:01	*18:01	*55:01	*01:02	*12:03	SSP SSO	

Table 10. Individual laboratory results for Cell #1642

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*29	*44	*51	*15	*16	*02:01	*29:02	*44:03	*51:13	*15:02	*16:01		
725	*02	*29	*44	*51	*15	*16							SSO	
731	*02	*29	*44	*51	*15	*16	*02:01	*29:02	*44:03:01G	*51:13:01	*15:02:01G	*16:01:01G	SSP SSO SBT	
745							*02:01:01:01	*29:02:01:01	*44:03:01	*51:13:01	*15:02:01:01	*16:01:01:01	SSP SBT NGS	
747	*02	*29	*44	*51	*15	*16	*02:01:01:01	*29:02:01:01	*44:03:01:01	*51:13:01	*15:02:01:01	*16:01:01:01	SSP SSO NGS	
762							*02:01:01:01	*29:02:01:01	*44:03:01:01	*51:13:01	*15:02:01:01	*16:01:01:01	NGS	
771	*02	*29	*44	*51	*15	*16	*02:01	*29:02	*44:03	*51:13	*15:02	*16:01	SSP SSO	
774	*02	*29	*44	*51	*15	*16				*51:13			SSP SSO	
3186	*02	*29	*44	*51	*15	*16							SSO	
														A*02:742 A*02:744 A*02:753 A*02:761 A*02:762 A*02:763 A*02:765 A*02:776 A*02:779 A*02:786 A*02:792N A*02:795 A*02:810 A*02:812 A*02:819 A*29:119 A*29:120 A*29:121 B*44:298 B*44:302 B*44:309N A*29:95 A*29:100 C*15:87 C*16:111 C*16:112 C*16:118 A*02:629 A*02:642 A*02:665 A*02:686 A*02:689 A*02:704 A*02:716 A*02:719 A*02:722 A*02:724 A*02:740 C*15:154 C*15:176 C*16:146
3545	*02	*29	*44	*51	*15	*16	*02:01	*29:02	*44:03	*51:13	*15:02	*16:01	SSO SBT	
3632	*02	*29	*44	*51	*15	*16	*02:01	*29:02	*44:03	*51:13	*15:02	*16:01	SSP SSO	
3808	*02	*29	*44	*51	*15	*16			*44:03	*51:13			SSP SBT	
4079	*02	*29	*44	*51	*15	*16	*02:01	*29:02	*44:03	*51:13	*15:02	*16:01	SSP SSO	
4251	*02	*29	*44	*51	*15	*16	*02:01:01G	*29:02:01G	*44:03	*51:13	*15:02:01G	*16:01:01G	SSO SBT	
5133							*02:01:01	*29:02:01:01	*44:03:01	*51:13:01	*15:02:01:01	*16:01:01:01	NGS	
5214	*02	*29	*44	*51	*15	*16							SSO	
5462	*02	*29	*44	*51	*15	*16	*02:01	*29:02	*44:03	*51:13	*15:02	*16:01	SSO NGS	
5642	*02	*29	*44	*51	*15	*16							SSP	
6649	*02	*29	*44	*51									SSO	
8001	*02	*29	*44	*51	*15	*16							SSO	
8043	*02	*29	*44	*51	*15	*16	*02:01	*29:02	*44:03	*51:13	*15:02	*16:01	SSP SSO	

Table 11. Individual laboratory results for Cell #1643

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*24	*24	*15	*57	*04	*06	*24:02	*24:07	*15:02	*57:01	*04:01	*06:02		
725	*24		*15	*57	*04	*06							SSO	
731	*24	*24	*15	*57	*04	*06	*24:02:01G	*24:07:01	*15:02:01	*57:01:01	*04:01	*06:02	SSP SSO SBT	
745							*24:02:01:01	*24:07:01	*15:02:01:01	*57:01:01:01	*04:01:01	*06:02:01:01	SSP SBT NGS	
747	NT						NT							
762							*24:02:01:01	*24:07:01	*15:02	*57:01:01:01	*04:01:01	*06:02:01:01	NGS	
771	*24	*24	*15	*57	*04	*06	*24:02	*24:07	*15:02	*57:01	*04:01	*06:02	SSP SSO	
774	*24	*24	*15	*57	*04	*06		*24:07	*15:02				SSP SSO	A*24:112 A*24:131 A*24:288
3186	*24	*24	*15	*57	*04	*06							SSO	B*15:214 B*15:223 B*15:302N
3545	*24	*24	*15	*57	*04	*06	*24:02	*24:07	*15:02	*57:01	*04:01	*06:02	SSO SBT	C*04:308 C*04:320 C*04:321 C*04:322 C*04:327 C*04:330 C*04:339 C*04:348 C*04:358 A*24:352 A*24:353 A*24:402 C*04:30 C*04:82 C*04:226 C*04:275 C*04:277 C*06:83 C*06:213 C*06:214 A*24:418 A*24:419 A*24:422 B*57:103 C*04:298 C*04:306 C*06:227 C*06:228 C*06:236 C*06:239 C*06:244
3632	*24	*24	*15	*57	*04	*06	*24:02	*24:07	*15:02	*57:01	*04:01	*06:02	SSP SSO	
3808	*24	*24	*15	*57	*04	*06		*24:07	*15:02:01G				SSP SBT	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*24	*24	*15	*57	*04	*06	*24:02P	*24:07	*15:02	*57:01	*04:01P	*06:02:01G	SSO SBT	
5133							*24:02:01	*24:07:01	*15:02:01:01	*57:01:01:01	*04:01:01	*06:02:01:01	NGS	
5214	*24	*24	*15(B75)	*57	*04	*06							SSO	
5462	*24	*24	*15	*57	*04	*06	*24:02	*24:07	*15:02	*57:01	*04:01	*06:02	SSO NGS	
5642	*24		*15	*57	*04	*06							SSP	
6649	*24		*15	*57									SSO	
8001	*24		*15(B75)	*57	*04	*06							SSO	
8043	*24		*15	*57	*04	*06							SSP SSO	

Table 12. Individual laboratory results for Cell #1644

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*01	*02	*08	*44	*05	*07	*01:01	*02:01	*08:01	*44:02	*05:01	*07:01		
725	*01	*02	*08	*44	*05	*07							SSO	
731	*01	*02	*08	*44	*05	*07	*01:01	*02:01	*08:01:01G	*44:02:01G	*05:01	*07:01	SSP SSO SBT	
745							*01:01:01:01	*02:01:01:01	*08:01:01:01	*44:02:01	*05:01:01:02	*07:01:01:06	SSP SBT NGS	
747	NT						NT							
762							*01:01:01:01	*02:01:01:01	*08:01:01:01	*44:02:01:01	*05:01:01:02	*07:01:01:06	NGS	
771	*01	*02	*08	*44	*05	*07	*01:01	*02:01	*08:01	*44:02	*05:01	*07:01	SSP SSO	
774	*01	*02	*08	*44	*05	*07							SSP SSO	
3186	*01	*02	*08	*44	*05	*07							SSO	
														A*01:248Q A*01:251 A*01:252 A*01:274 A*01:276 A*01:277 A*01:280 A*01:281 A*01:291 A*01:295 A*01:296 A*02:742 A*02:744 A*02:753 A*02:761 A*02:762 A*02:763 A*02:765 A*02:776 A*02:779 A*02:786 A*02:792N A*02:795 A*02:810 A*02:812 A*02:819 B*08:207 B*08:221 B*44:292 B*44:321 C*05:187 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 C*07:06 C*05:145 C*05:153N C*07:18 C*07:343+
3545	*01	*02	*08	*44	*05	*07	*01:01	*02:01	*08:01	*44:02	*05:01	*07:01	SSO SBT	
3632	*01	*02	*08	*44	*05	*07	*01:01	*02:01	*08:01	*44:02	*05:01	*07:01	SSP SSO	
3808	*01	*02	*08	*44	*05	*07						*07:01:01G	SSP SBT	
4079	NT						NT						SSP SSO	
4251	*01	*02	*08	*44	*05	*07	*01:01:01G	*02:01:01G	*08:01:01G	*44:02:01G	*05:01:01G	*07:01:01G	SSO SBT	
5133							*01:01:01:01	*02:01:01	*08:01:01:01	*44:02:01	*05:01:01:02	*07:01:01:06	NGS	
5214	*01	*02	*08	*44	*05	*07							SSO	
5462	*01	*02	*08	*44	*05	*07	*01:01	*02:01	*08:01	*44:02	*05:01	*07:01	SSO NGS	
5642	*01	*02	*08	*44	*05	*07							SSP	
6649	*01	*02	*08	*44									SSO	
8001	*01	*02	*08	*44	*05	*07							SSO	
8043	*01	*02	*08	*44	*05	*07							SSP SSO	

Table 13. Individual laboratory results for Cell #1641-1644 by serology

Investigator	Days Old	Cell No 1641 (Hispanic)								Cell No 1642 (Hispanic)						Cell No 1643 (Filipino)						Cell No 1644 (Caucasian)														
		Viab %	A1	A69	B18	B55	Cw1	Bw6	OTHERS	Viab %	A2	A29	B44	B51	Bw4	OTHERS	Viab %	A24	B15	B57	Cw4	Cw6	Bw4	Bw6	OTHERS	Viab %	A1	A2	B8	B44	Cw5	Cw7	Bw4	Bw6	OTHERS	
Cecka, J. Mic	6	>95	+	+	+	+		+		>95	+	+	+	+	+		>95	+	B75	+			+	+		>95	+	+	+	+			+	+		
D'Orsogna , L		85	+	+	+	+	+	+		90	+	+	+	+	+		90	+	B75	+	+		+	+		90	+	+	+	+	+	+	+	+		
Fort, Marylis	3	95	+	+	+	+		+		92	+	+	+	+	+		NT									NT										
Georgiou, Dor		85	+	+	+	+		+		85	+	+	+	+	+		85	+	B75	+			+	+		85	+	+	+	+			+	+		
Latham, Katy	6	95	+	+	+	+		+		95	+	+	+	+	+		95	+	B75	+			+	+		95	+	+	+	+			+	+		
Loewenthal ,		80	+	+	+	+	+	+		85	+	+	+		+	Cw15	80	+	B75	+	+	+	+	+		80	+	+	+	+	+	+	+	+		
Permpikul, Ve	6	90	+	+	+	+		+		90	+	+	+	+	+		90	+	B75	+			+	+		90	+	+	+	+			+	+		
Renac, Virgin	3	100	+	A28	+	B22		+		100	+	+	+	+	+		100	+	+	+			+	+		100	+	+	+	+			+	+		
Shai, Isaac	7	92	+	A28	+	B22		+	Cw4, A2, Cw3, Cw7	90	+	+	+	+	+	Cw4	90	+	B62	+	+	+	+	+	Cw3	90	+	+	+	+	+	+	+	+	+	
Tabata, Lucas		90	+	A28	+	+				80	+	+	+	B5	Cw6	80	+	B62	B17	+	+				90	+	+	+	+		+					
Vidan-Jeras,	6	99	+	+	+	+		+		99	+	+	+	+	+		99	+	+	B58			+	+		100	+	+	+	+			+	+		
Villard, Jean	6	80	+	+	+	+		+		85	+	+	+	+	+																					