

CELL EXCHANGE #412

SEPTEMBER 9, 2019

Cells	1645-1648
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The results for Cell Exchange #412 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 1645. The reported consensus for this cell from a Filipino donor was A*11:01(A11)-A*24:07(A24)-B*35:05(B35)-B*40:01(B60)-C*04:01-C*07:02. Likely associations present in this cell were A*11:01-B*40:01-C*07:02 and A*24:07-B*35:05-C*04:01, with respective HF = 0.01558 and 0.00620, in Asians. Good agreement (100%) was achieved among DNA labs in the reporting of class I assignments. Among the labs reporting by high resolution, 5 labs assigned A*24:07:01 and B*35:05:01, and 4 labs assigned A*11:01:01, B*40:01:02, C*04:01:01, and C*07:02:01. A11 (100%), A24 (100%), B35 (100%), and B60 (91%) were well assigned by serology.

Cell 1646. The reported consensus for this cell from a Hispanic donor was A*02:05(A2)-A*11:01(A11)-B*41:01(B41)-B*44:02(B44)-C*05:01-C*07:01. The likely associations present in this cell were A*02:05-B*41:01-C*07:01 and A*11:01-B*44:02-C*05:01, with respective HF = 0.00152 and 0.00097. Good agreement (100%) was achieved among DNA labs in the reporting of high and low resolution class I results. Among the labs reporting by high resolution, 5 labs assigned A*02:05:01, A*11:01:01, B*41:01:01, and 4 labs assigned B*44:02:01, C*05:01:01:02, and C*07:01:01. Good agreement was also achieved among serology labs, as A2 (100%), A11 (100%), B41 (91%), and B44 (91%) were well assigned.

Cell 1647. The reported consensus for this cell from a Caucasian donor was A*02:01(A2)-A*02:24-B*07:02(B7)-B*27:05(B27)-C*02:02-C*07:02. One likely association present was A*02:24-B*07:02-C*07:02, exclusively observed in Caucasians, with HF = 0.00019. The other likely association present, A*02:01-B*27:05-C*02:02, is observed across all populations, with HF = 0.00706, in Caucasians. Good agreement (100%) was achieved among labs reporting high and low resolution typing results. Among the high resolution class I assignments, A*02:24:01 and B*07:02:01 were assigned by 4 labs, while A*02:01:01, B*07:02:01, B*27:05:02, C*02:02:02:01, and C*07:02:01 were each assigned by 3 labs. By serology, A2, B7, and B27 were each assigned in complete consensus.

Cell 1648. The reported consensus for this cell from a Hispanic donor was A*02:01(A2)-A*33:01(A33)-B*39:11(B39)-B*44:03(B44)-C*02:02-C*07:02. One likely association present in this cell was A*33:01-B*44:03-C*02:02, observed in Hispanics, with HF = 0.00136. The other likely association present may then be A*02:01-B*39:11-C*07:02. The association of B*39:11-C*07:02, was observed exclusively in Hispanics, with HF = 0.00125. Good agreement (100%) was observed among DNA labs in the reporting of class I specificities. Among labs reporting by high resolution, 4 labs assigned B*44:03:01 and 3 labs assigned A*02:01:01, A*33:01:01:01, C*02:02:02:01, and C*07:02:01. A2 (100%), A33 (100%), B39 (89%), and B44 (89%) were reported by serology.

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Table 7. Summary of the 412th Cell Exchange (Cell #1645-1648)

DNA typing

Cell 1645	
16 low/12 high labs - A	%(n)
A*11:01:01:01	25(3)
A*11:01:01	8 (1)
A*11:01:01G	17(2)
A*11:01	50(6)
A*11	100(16)
16 low/12 high labs - A	%(n)
A*24:07:01	42(5)
A*24:07	58(7)
A*24	100(16)
16 low/13 high labs - B	%(n)
B*35:05:01:01	8 (1)
B*35:05:01	31(4)
B*35:05	61(8)
B*35	100(16)
16 low/12 high labs - B	%(n)
B*40:01:02	33(4)
B*40:01:01G	17(2)
B*40:01	50(6)
B*40(B60)	12(2)
B*40	88(14)
15 low/12 high Labs - C	%(n)
C*04:01:01:01	8 (1)
C*04:01:01	25(3)
C*04:01P	8 (1)
C*04:01	58(7)
C*04	100(15)
15 low/12 high Labs - C	%(n)
C*07:02:01:01	8 (1)
C*07:02:01	25 (3)
C *07:02:01G	8 (1)
C*07:02	58(7)
C*07	100(15)

Cell 1646	
16 low/13 high labs - A	%(n)
A*02:05:01:01	8 (1)
A*02:05:01	31(4)
A*02:05	61(8)
A*02	100(16)
16 low/12 high labs - A	%(n)
A*11:01:01:01	25(3)
A*11:01:01	17(2)
A*11:01:01G	8 (1)
A*11:01	50(6)
A*11	100(16)
16 low/12 high labs - B	%(n)
B*41:01:01:01	8 (1)
B*41:01:01	33(4)
B*41:01	58(7)
B*41	100(16)
16 low/12 high labs - B	%(n)
B*44:02:01:01	17(2)
B*44:02:01	17(2)
B*44:02:01G	17(2)
B*44:02	50(6)
B*44	100(16)
15 low/12 high Labs - C	%(n)
C*05:01:01:02	33(4)
C*05:01:01G	17(2)
C*05:01	50(6)
C*05	100(15)
15 low/12 high Labs - C	%(n)
C*07:01:01:01	8 (1)
C*07:01:01:09	8 (1)
C*07:01:01	17(2)
C*07:01:01G	17(2)
C*07:01	50(6)
C*07	100(15)

Cell 1647	
14 low/10 high labs - A	%(n)
A*02:01:01:01	20(2)
A*02:01:01	10(1)
A*02:01:01G	20(2)
A*02:01	50(5)
A*02	100(14)
10 high labs - A	%(n)
A*02:24:01	40(4)
A*02:24	60(6)
14 low/10 high labs - B	%(n)
B*07:02:01:01	10(1)
B*07:02:01	30(3)
B*07:02:01G	10(1)
B*07:02	50(5)
B*07	100(14)
14 low/10 high labs - B	%(n)
B*27:05:02	30(3)
B*27:05:02G	20(2)
B*27:05	50(5)
B*27	100(14)
13 low/10 high Labs - C	%(n)
C*02:02:02:01	30(3)
C*02:02:02G	10(1)
C*02:02	60(6)
C*02	100(13)
13 low/10 high Labs - C	%(n)
C*07:02:01:03	20(2)
C*07:02:01	10(1)
C*07:02:01G	20(2)
C*07:02	50(5)
C*07	100(13)

Cell 1648	
14 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(14)
16 low/10 high labs - A	%(n)
A*33:01:01:01	30(3)
A*33:01	70(7)
A*33	100(14)
14 low/11 high labs - B	%(n)
B*39:11	100(11)
B*39	100(14)
14 low/11 high labs - B	%(n)
B*44:03:01:02	9(1)
B*44:03:01	27(3)
B*44:03	64(7)
B*44	100(14)
13 low/10 high labs - C	%(n)
C*02:02:02:01	30(3)
C*02:02:02G	10(1)
C*02:02	60(6)
C*02	100(13)
13 low/10 high labs - C	%(n)
C*07:02:01	30(3)
C*07:02:01G	20(2)
C*07:02	50(5)
C*07	100(13)

Table 9. Individual laboratory results for Cell #1645

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*11	*24	*35	*40	*04	*07	*11:01	*24:07	*35:05	*40:01	*04:01	*07:02		
725	*11	*24	*35	*40	*04	*07							SSO	
731	*11	*24	*35	*40	*04	*07	*11:01:01G	*24:07:01	*35:05:01	*40:01:01G	*04:01	*07:02	SSP SSO SBT	
745							*11:01:01:01	*24:07:01	*35:05:01	*40:01:02	*04:01:01	*07:02:01	SSP SBT NGS	
747	*11	*24	*35	*40	*04	*07	*11:01:01:01	*24:07:01	*35:05:01	*40:01:02	*04:01:01:01	*07:02:01:01	SSP SSO NGS	
762							*11:01:01:01	*24:07:01	*35:05:01	*40:01:02	*04:01:01	*07:02:01	NGS	
771	*11	*24	*35	*40	*04	*07	*11:01	*24:07	*35:05	*40:01	*04:01	*07:02	SSO SBT	
774	*11	*24	*35	*40	*04	*07			*35:05				SSP SSO	B*35:97 B*35:114 B*35:89
														A*11:295 A*11:303 A*11:306 B*40:379 B*40:386 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*04:277 A*11:263 A*11:270 A*11:278 A*11:280 B*40:353 C*04:30 C*04:82 C*04:226 C*04:275 C*04:298 C*04:306 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 C*07:50 C*07:349 C*07:566 C*07:592 C*07:594 C*07:595 C*07:596 C*07:612
3545	*11	*24	*35	*40	*04	*07	*11:01	*24:07	*35:05	*40:01	*04:01	*07:02	SSO SBT	
3632	*11	*24	*35	*40	*04	*07	*11:01	*24:07	*35:05	*40:01	*04:01	*07:02	SSP SSO	
3808	*11	*24	*35	*40	*04	*07							SSP	
4079	*11	*24	*35	*40	*04	*07	*11:01	*24:07	*35:05	*40:01	*04:01	*07:02	SSP SSO	
4251	*11	*24	*35	*40	*04	*07	*11:01:01G	*24:07	*35:05	*40:01:01G	*04:01P	*07:02:01G	SSO SBT	
5133							*11:01:01	*24:07:01	*35:05:01:01	*40:01:02	*04:01:01	*07:02:01	NGS	
5214	*11	*24	*35	*40(B60)	*04	*07							RT-PCR	
5462	*11	*24	*35	*40	*04	*07	*11:01	*24:07	*35:05	*40:01	*04:01	*07:02	SSO NGS	
6649	*11	*24	*35	*40									SSO	
8001	*11	*24	*35	*40(B60)	*04	*07								
8043	*11	*24	*35	*40	*04	*07							SSO	

Table 10. Individual laboratory results for Cell #1646

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*11	*41	*44	*05	*07	*02:05	*11:01	*41:01	*44:02	*05:01	*07:01		
725	*02	*11	*41	*44	*05	*07							SSO	
731	*02	*11	*41	*44	*05	*07	*02:05:01	*11:01:01	*41:01:01	*44:02:01G	*05:01:01G	*07:01:01G	SSP SSO SBT	
745							*02:05:01	*11:01:01:01	*41:01:01	*44:02:01	*05:01:01:02	*07:01:01	SSP SBT NGS	
747	*02	*11	*41	*44	*05	*07	*02:05:01	*11:01:01:01	*41:01:01	*44:02:01:01	*05:01:01:02	*07:01:01:01	SSP SSO NGS	
762							*02:05:01	*11:01:01:01	*41:01:01	*44:02:01:01	*05:01:01:02	*07:01:01	NGS	
771	*02	*11	*41	*44	*05	*07	*02:05	*11:01	*41:01	*44:02	*05:01	*07:01	SSO SBT	
774	*02	*11	*41	*44	*05	*07	*02:05						SSP SSO	A*02:433 A*02:484 A*02:489 A*02:507 A*02:232 A*02:286 A*02:324 A*02:359 A*02:337 A*02:344 A*02:373N A*02:376 A*02:421 A*02:532
3545	*02	*11	*41	*44	*05	*07	*02:05	*11:01	*41:01	*44:02	*05:01	*07:01	SSO SBT	A*11:263 A*11:270 A*11:278 A*11:280 B*44:19N B*44:270 B*44:292 B*44:301 B*44:306N C*05:172 C*05:187 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*11:295 A*11:303 A*11:306
3632	*02	*11	*41	*44	*05	*07	*02:05	*11:01	*41:01	*44:02	*05:01	*07:01	SSP SSO	
3808	*02	*11	*41	*44	*05	*07							SSP	
4079	*02	*11	*41	*44	*05	*07	*02:05	*11:01	*41:01	*44:02	*05:01	*07:01	SSP SSO	
4251	*02	*11	*41	*44	*05	*07	*02:05	*11:01:01G	*41:01	*44:02:01G	*05:01:01G	*07:01:01G	SSO SBT	
5133							*02:05:01:01	*11:01:01	*41:01:01:01	*44:02:01	*05:01:01:02	*07:01:01:09	NGS	
5214	*02	*11	*41	*44	*05	*07							RT-PCR	
5462	*02	*11	*41	*44	*05	*07	*02:05	*11:01	*41:01	*44:02	*05:01	*07:01	SSO NGS	
6649	*02	*11	*41	*44									SSO	
8001	*02	*11	*41	*44	*05	*07								
8043	*02	*11	*41	*44	*05	*07							SSO	

Table 11. Individual laboratory results for Cell #1647

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*02	*07	*27	*02	*07	*02:01	*02:24	*07:02	*27:05	*02:02	*07:02		
725	*02		*07	*27	*02	*07							SSO	
731	*02	*02	*07	*27	*02	*07	*02:01:01G	*02:24:01	*07:02:01	*27:05:02G	*02:02:02G	*07:02:01G	SSP SSO SBT	
745							*02:01:01:01	*02:24:01	*07:02:01	*27:05:02	*02:02:02:01	*07:02:01:03	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*02:01:01:01	*02:24:01	*07:02:01:01	*27:05:02	*02:02:02:01	*07:02:01:03	NGS	
771	*02	*02	*07	*27	*02	*07	*02:01	*02:24	*07:02	*27:05	*02:02	*07:02	SSO SBT	
774	*02		*07	*27	*02	*07							SSP SSO	
														C*07:592 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 A*02:742 A*02:744 A*02:753 A*02:761 A*02:765 A*02:762 A*02:763 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*07:61 B*07:161N B*07:271 B*07:294 B*07:298 B*07:312 B*27:13 C*07:50 C*07:349 C*07:566 C*07:594 C*07:595 C*07:596 C*07:612 B*07:311+
3545	*02	*02	*07	*27	*02	*07	*02:01	*02:24	*07:02	*27:05	*02:02	*07:02	SSO SBT	
3632	*02	*02	*07	*27	*02	*07	*02:01	*02:24	*07:02	*27:05	*02:02	*07:02	SSP SSO	
3808	*02		*07	*27	*02	*07							SSP	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*02	*02	*07	*27	*02	*07	*02:01:01G	*02:24	*07:02:01G	*27:05:02G	*02:02	*07:02:01G	SSO SBT	
5133							*02:01:01	*02:24:01	*07:02:01	*27:05:02	*02:02:02:01	*07:02:01	NGS	
5214	*02	*02	*07	*27	*02	*07							RT-PCR	
5462	*02	*02	*07	*27	*02	*07	*02:01	*02:24	*07:02	*27:05	*02:02	*07:02	SSO NGS	
6649	*02		*07	*27									SSO	
8001	*02		*07	*27	*02	*07								
8043	*02		*07	*27	*02	*07							SSO	

Table 12. Individual laboratory results for Cell #1648

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*33	*39	*44	*02	*07	*02:01	*33:01	*39:11	*44:03	*02:02	*07:02		
725	*02	*33	*39	*44	*02	*07							SSO	
731	*02	*33	*39	*44	*02	*07	*02:01	*33:01	*39:11	*44:03:01	*02:02:02G	*07:02:01G	SSP SSO SBT	
745							*02:01:01:01	*33:01:01:01	*39:11	*44:03:01	*02:02:02:01	*07:02:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*02:01:01:01	*33:01:01:01	*39:11	*44:03:01	*02:02:02:01	*07:02:01	NGS	
771	*02	*33	*39	*44	*02	*07	*02:01	*33:01	*39:11	*44:03	*02:02	*07:02	SSO SBT	
774	*02	*33	*39	*44	*02	*07			*39:11	*44:03			SSP SSO	B*44:198N
														C*02:145 C*02:151 C*02:153 C*02:154 C*02:163 C*07:665 C*07:666 C*07:667 C*07:684 C*07:688 C*07:703 C*07:704 C*07:722 A*02:762 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 A*02:742 A*02:744 A*02:753 A*02:761 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*44:298 B*44:302 B*44:309N C*07:50 C*07:349 C*07:566 C*07:592 C*07:595 C*07:596 C*07:612 C*07:594
3545	*02	*33	*39	*44	*02	*07	*02:01	*33:01	*39:11	*44:03	*02:02	*07:02	SSO SBT	
3632	*02	*33	*39	*44	*02	*07	*02:01	*33:01	*39:11	*44:03	*02:02	*07:02	SSP SSO	
3808	*02	*33	*39	*44	*02	*07							SSP	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*02	*33	*39	*44	*02	*07	*02:01:01G	*33:01	*39:11	*44:03	*02:02	*07:02:01G	SSO SBT	
5133							*02:01:01	*33:01:01:01	*39:11	*44:03:01:02	*02:02:02:01	*07:02:01	NGS	
5214	*02	*33	*39	*44	*02	*07							RT-PCR	
5462	*02	*33	*39	*44	*02	*07	*02:01	*33:01	*39:11	*44:03	*02:02	*07:02	SSO NGS	
6649	*02	*33	*39	*44									SSO	
8001	*02	*33	*39	*44	*02	*07								
8043	*02	*33	*39	*44	*02	*07							SSO	

Table 13. Individual laboratory results for Cell #1645-1648 by serology

Investigator	Days Old	Cell No 1645 (Filipino)									Cell No 1646 (Hispanic)									Cell No 1647 (Caucasian)									Cell No 1648 (Hispanic)									
		Viab %	A11	A24	B35	B60	Cw4	Cw7	Bw6	OTHERS	Viab %	A2	A11	B41	B44	Cw5	Cw7	Bw4	Bw6	OTHERS	Viab %	A2	B7	B27	Cw2	Cw7	Bw4	Bw6	OTHERS	Viab %	Bw6	A2	A33	B39	B44	Cw2	Cw7	Bw4
Cecka, J. Mic	2	>95	+	+	+	+		+		>95	+	+	+	+			+	+		>95	+	+	+			+	+		>95	+	+	+	+	+			+	
D'Orsogna, L	8	90	+	+	+	+	+	+		90	+	+	+	+	+	+	+	+		90	+	+	+	+	+	+	+		90	+	+	+	+	+	+	+	+	
Fort, Marylis	3	98	+	+	+	+		+		98	+	+	+	+			+	+		NT								NT										
Latham, Katy		90	+	+	+	+		+		90	+	+	+	+			+	+		90	+	+	+			+	+		90	+	+	+	+	+			+	
Loewenthal,		80	+	+	+	+	+	+		85	+	+	+	+	+	+	+	+		80	+	+	+	+	+	+	+		80	+	+	+	B16	+	+	+	+	
Permpikul, Ve	7	90	A11.1	+	+	+		+		90	+	A11.1	+	+			+	+		90	+	+	+			+	+		90	+	+	+	+	+			+	
Renac, Virgin		100	+	+	+	+		+		100	+	+	+	+			+	+		100	+	+	+			+	+		100	+	+	+	+	+			+	
Shai, Isaac	9	84	+	+	+	+	+	+	B48,Cw3	88	+	+		+	+		+	+	B45,Cw3	84	+	+	+	+	+	+	A34,Cw3	82	+	+	+	+	+	+	+	+	A28,Cw5	
Tabata, Lucas		90	+	+	+	+	+	+		90	+	+	+	B12		+	+	+		90	+	+	+	+		+	+	A10	80	+	+	+	+	B12	+	+		
Vidan-Jeras,	6	95	+	+	+	+	+	+		100	+	+	+	+	+	+	+	+		100	+	+	+	+	+	+		100	+	+	+	+	+	+	+	+	+	
Villard, Jean		75	+	+	+	B40	+	+		95	+	+	+	+	+	+	+	+		NT								NT										