

CELL EXCHANGE #408

FEBRUARY 6, 2019

Cells	1629-1632
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The results for Cell Exchange #408 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 serological results for each sample are

listed in Table 15. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Cell 1629. The reported consensus type for this sample from a Chinese donor is A*01:01(A1)-A*02:01(A2)-B*15:25(B62)-B*52:01(B52)-C*04:03-C*12:02. The likely associations of B*15:25-C*04:03 and B*52:01-C*12:02 in this cell are commonly observed in Asian populations, with respective HF = 0.00455 and 0.03354.

A*01:01, A*02:01, B*15:25, B*52:01, C*04:03 and C*12:02 were each assigned in complete consensus by labs reporting at high resolution. A*01:01:01:01 and B*52:01:01:02 were each assigned by 4 labs, and A*02:01:01:01 and C*12:02:02:01 were each assigned by 3 labs. Serological typing results were well assigned as A1 (100%), A2 (100%), B15 (B62)(93%), and B52 (100%).

Cell 1630. The reported consensus type for this sample from an Asian donor is A*11:01(A11)-B*15:02(B15)-C*08:01. The A*11:01-B*15:02-C*08:01 association present in this cell is the 3rd most common association observed in Asians, with HF = 0.02020.

This cell was previously examined as cell 1503 (2013). In this present retyping, A*11:01, B*15:02, and C*08:01 were each assigned in complete consensus, with 4 labs assigning B*15:02:01 and 3 labs assigning A*11:01:01:01 and C*08:01:01:01. A11 (100%) was reported by serology, with 1 lab reporting A1101. B15 (100%) was assigned as the sole B-locus type, with 64% of labs assigning B75. B62 was misassigned by 3 labs.

Cell 1631. The reported consensus type for this sample from a Hispanic donor is A*29:02(A29)-A*68:03(A68)-B*40:02(B40)-B*44:03(B44)-C*03:04-C*16:01. The likely associations present in this cell are B*40:02-C*03:04 and B*44:03-C*16:01, observed commonly in Hispanics, with respective HF = 0.02282 and 0.03311.

A*29:02, A*68:03, B*40:02, B*44:03, C*03:04, and C*16:01 were each assigned in complete consensus, with 3 labs assigning A*29:02:01, A*68:03:01, B*40:02:01, B*44:03:01, C*03:04:01, and C*16:01:01:01. A29 (100%), A28 (92%), B44 (100%), and B40 (B61) were reported by serology. A68 (75%) was assigned as the A28 split, and B61 (50%) was assigned as the B40 split.

Cell 1632. The reported consensus type for this sample from a Hispanic donor is A*02:06(A2), A*68:03(A68), B*35:12(B35), B*48:01(B48), C*04:01, and C*08:01. Likely associations present in this cell are A*68:03-B*35:12-C*04:01 and A*02:06-B*48:01-C*08:01, with respective HF = 0.00051 and 0.00505, in Hispanics.

This cell was examined numerous times in the exchange as cells 1521 (2014), 1423 (2011), 1322 (2008), and 1316 (2007). In this present retyping, A*02:06, A*68:03, B*35:12, B*48:01, C*04:01, and C*08:01 were each assigned in complete consensus, with 3 labs assigning A*02:06:01:01, A*68:03:01, B*35:12:01, B*48:01:01, C*04:01:01, and C*08:01:01:01. A2 (100%), A68 (75%), B35 (100%), and B48 (83%) were the reported serological types.

NEXT MAILING DATE: March 6, 2019

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Table 9. Summary of the 408th Cell Exchange (Cell #1629-1632)

DNA typing

Cell 1629	
19 low/12 high labs - A	%(n)
A*01:01:01:01	33(4)
A*01:01:01G	8 (1)
A*01:01	58(7)
A*01	100(19)
19 low/12 high labs - A	%(n)
A*02:01:01:01	25(3)
A*02:01:01	8 (1)
A*02:01:01G	8 (1)
A*02:01	58(7)
A*02	100(19)
19 low/15 high labs - B	%(n)
B*15:25:01	27(4)
B*15:25:01G	7 (1)
B*15:25	67(10)
B*15(B62)	11(2)
B*15	89(17)
19 low/12 high labs - B	%(n)
B*52:01:01:02	33(4)
B*52:01:01G	8 (1)
B*52:01	58(7)
B*52	100(19)
17 low/13 high Labs - C	%(n)
C*04:03:01	31(4)
C*04:03	69(9)
C*04	100(17)
17 low/12 high Labs - C	%(n)
C*12:02:02:01	25(3)
C*12:02:02	8 (1)
C*12:02:01G	8 (1)
C*12:02	58(7)
C*12	100(17)

Cell 1630	
18 low/12 high labs - A	%(n)
A*11:01:01:01	25(3)
A*11:01:01	8 (1)
A*11:01:01G	8 (1)
A*11:01	58(7)
A*11	100(18)
18 low/14 high labs - B	%(n)
B*15:02:01	29(4)
B*15:02:01G	7 (1)
B*15:02	64(9)
B*15(B75)	11(2)
B*15	89(16)
17 low/12 high Labs - C	%(n)
C*08:01:01:01	25(3)
C*08:01:01	8 (1)
C*08:01:01G	8 (1)
C*08:01	58(7)
C*08	100(17)

Cell 1631	
18 low/11 high labs - A	%(n)
A*29:02:01:01	18(2)
A*29:02:01	9 (1)
A*29:02:01G	9 (1)
A*29:02	64(7)
A*29	100(18)
18 low/13 high labs - A	%(n)
A*68:03:01	23(3)
A*68:03	77(10)
A*68	100(18)
18 low/13 high labs - B	%(n)
B*40:02:01:01	15(2)
B*40:02:01	8 (1)
B*40:02:01G	15(2)
B*40:02	62(8)
B*40(B61)	11(2)
B*40	89(16)
18 low/11 high labs - B	%(n)
B*44:03:01:01	18(2)
B*44:03:01	9 (1)
B*44:03	73 (8)
B*44	100(18)
16 low/13 high Labs - C	%(n)
C*03:04:01:02	15(2)
C*03:04:01	8 (1)
C*03:04:01G	15(2)
C*03:04	62(8)
C*03(Cw10)	13(2)
C*03	87(14)
16 low/11 high Labs - C	%(n)
C*16:01:01:01	27(3)
C*16:01:01G	9 (1)
C*16:01	64(7)
C*16	100(16)

Cell 1632	
18 low/11 high labs - A	%(n)
A*02:06:01:01	27(3)
A*02:06:01G	9 (1)
A*02:06	64(7)
A*02	100(18)
18 low/13 high labs - A	%(n)
A*68:03:01	23(3)
A*68:03	77(10)
A*68	100(18)
18 low/12 high labs - B	%(n)
B*35:12:01	25(3)
B*35:12	75(9)
B*35	100(18)
18 low/11 high labs - B	%(n)
B*48:01:01:01	18(2)
B*48:01:01	9 (1)
B*48:01:01G	9 (1)
B*48:01	64(7)
B*48	100(18)
16 low/11 high labs - C	%(n)
C*04:01:01	27(3)
C*04:01P	9 (1)
C*04:01	64(7)
C*04	100(16)
16 low/11 high labs - C	%(n)
C*08:01:01:01	27(3)
C*08:01:01G	9 (1)
C*08:01	65(7)
C*08	100(16)

Table 10. Summary of the 408th Cell Exchange (Cell #1629 - 1632)

Serological typing							
(Chinese) Cell 1629		(Asian) Cell 1630		(Hispanic) Cell 1631		(Hispanic) Cell 1632	
(14 Samples Typed)		(14 Samples Typed)		(12 Samples Typed)		(12 Samples Typed)	
A1	100.00%	A11	92.90%	A29	100.00%	A2	100.00%
		A11.1	7.10%		[100.0%]		[100.0%]
A2	100.00%		[100.0%]				
	[100.0%]	B15	21.40%	A68	75.00%	A68	75.00%
		B62	21.40%	A28	25.00%	A28	25.00%
B62	71.40%	B75	64.30%		[91.7%]		[100.0%]
B15	21.40%		[100.0%]				
	[92.9%]	Cw8	14.30%	B40	25.00%	B35	100.00%
				B60	16.70%		
B52	100.00%	Bw6	78.60%	B61	50.00%	B48	83.30%
	[100.0%]				[91.7%]		
						Cw4	25.00%
Cw4	7.10%			B44	100.00%		[25.0%]
Cw6	7.10%				[100.0%]		
	14.30%					Cw8	16.70%
				Cw3	33.30%		
					[33.3%]	Bw6	83.30%
Bw4	85.70%						
				Bw6	75.00%		
Bw6	85.70%						
				Bw4	83.30%		
Others Found		Others Found		Others Found		Others Found	
Cw3	14.30%	B35	21.40%	Cw7	8.30%	B81	8.30%
Cw12	7.10%	A3	7.10%	A69	8.30%	B40	8.30%
B70	7.10%	Cw3	7.10%	B45	8.30%		
B35	7.10%	Bw4	7.10%	Cw8	8.30%		
B75	7.10%			B73	8.30%		

Table 11. Individual laboratory results for Cell #1629

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*01	*02	*15	*52	*04	*12	*01:01	*02:01	*15:25	*52:01	*04:03	*12:02		
725	*01	*02	*15	*52	*04	*12							SSO	
745							*01:01:01:01	*02:01:01:01	*15:25:01	*52:01:01:02	*04:03:01	*12:02:02:01	SSP SBT NGS	
747	*01	*02	*15	*52	*04	*12	*01:01:01:01	*02:01:01:01	*15:25:01	*52:01:01:02	*04:03:01	*12:02:02	SSP SSO NGS	
762							*01:01:01:01	*02:01:01:01	*15:25:01	*52:01:01:02	*04:03:01	*12:02:02:01	NGS	
771	*01	*02	*15	*52	*04	*12	*01:01	*02:01	*15:25	*52:01	*04:03	*12:02	SSP SSO	
774	*01	*02	*15	*52	*04	*12			*15:25		*04:03		SSP SSO	B*15:240 B*15:250 B*15:271 C*04:107 C*04:171
779	*01	*02	*15	*52	*04	*12			*15:25				SSP SSO	
3186	*01	*02	*15	*52	*04	*12							SSO	
3545	*01	*02	*15	*52	*04	*12	*01:01	*02:01	*15:25	*52:01	*04:03	*12:02	SSO SBT	A*01:234 A*01:237 A*02:629 A*02:642 A*02:665 A*02:686 A*02:689 A*02:704 B*52:53 C*04:286
3632	*01	*02	*15	*52	*04	*12	*01:01	*02:01	*15:25	*52:01	*04:03	*12:02	SSP SSO	
3766	*01	*02	*15	*52	NT	NT								
3808	*01	*02	*15	*52	*04	*12			*15:25:01G				SSP	
4079	*01	*02	*15	*52	*04	*12	*01:01	*02:01	*15:25	*52:01	*04:03	*12:02	SSP NGS	
4251	*01	*02	*15	*52	*04	*12	*01:01:01G	*02:01:01G	*15:25	*52:01:01G	*04:03	*12:02:01G	SSO SBT	
5133							*01:01:01:01	*02:01:01	*15:25:01	*52:01:01:02	*04:03:01	*12:02:02:01	NGS	
5214	*01	*02	*15 (B62)	*52	*04	*12							SSO	
5462	*01	*02	*15	*52	*04	*12	*01:01	*02:01	*15:25	*52:01	*04:03	*12:02	SSO NGS	
5642	*01	*02	*15	*52	*04	*12								
6649	*01	*02	*15	*52									SSO	
8001	*01	*02	*15 (B62)	*52	*04	*12							SSP SSO	
8043	*01	*02	*15	*52	*04	*12							SSO	
8070							*01:01	*02:01	*15:25	*52:01	*04:03	*12:02	SBT	

Table 12. Individual laboratory results for Cell #1630

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*11	*11	*15	*15	*08	*08	*11:01	*11:01	*15:02	*15:02	*08:01	*08:01		
725	*11		*15		*08								SSO	
745							*11:01:01:01	*11:01:01:07	*15:02:01		*08:01:01:01		SSP SBT NGS	
747	*11	*11	*15	*15	*08	*08	*11:01:01:01	*11:01:01:01	*15:02:01	*15:02:01	*08:01:01	*08:01:01	SSP SSO NGS	
762							*11:01:01:01	*11:01:01:07	*15:02:01		*08:01:01:01		NGS	
771	*11		*15		*08		*11:01		*15:02		*08:01		SSP SSO	
774	*11		*15		*08								SSP SSO	
779	*11		*15		*08				*15:02				SSP SSO	
3186	*11	*11	*15	*15	*08	*08							SSO	
3545	*11		*15		*08		*11:01		*15:02		*08:01		SSO SBT	A*11:263 C*08:22
3632	*11		*15		*08		*11:01		*15:02		*08:01		SSP SSO	C*08:99 C*08:102
3766	FTA	FTA	FTA	FTA	NT	NT								
3808	*11		*15		*08				*15:02:01G				SSP	
4079	*11		*15		*08		*11:01		*15:02		*08:01		SSP NGS	
4251	*11	*11	*15	*15	*08	*08	*11:01:01G	*11:01:01G	*15:02	*15:02	*08:01:01G	*08:01:01G	SSO SBT	
5133							*11:01:01		*15:02:01		*08:01:01:01		NGS	
5214	*11		*15 (B75)		*08								SSO	
5462	*11		*15		*08		*11:01		*15:02		*08:01		SSO NGS	
5642	*11		*15		*08									
6649	*11		*15										SSO	
8001	*11		*15 (B75)		*08								SSP SSO	
8043	*11		*15		*08								SSO	
8070							*11:01		*15:02		*08:01		SBT	

Table 13. Individual laboratory results for Cell #1631

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*29	*68	*40	*44	*03	*16	*29:02	*68:03	*40:02	*44:03	*03:04	*16:01		
725	*29	*68	*40	*44	*03	*16							SSO	
745							*29:02:01:01	*68:03:01	*40:02:01	*44:03:01	*03:04:01:02	*16:01:01:01	SSP SBT NGS	
747	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO NGS	
762							*29:02:01:01	*68:03:01	*40:02:01:01	*44:03:01:01	*03:04:01:02	*16:01:01:01	NGS	
771	*29	*68	*40	*44	*03	*16	*29:02	*68:03	*40:02	*44:03	*03:04	*16:01	SSP SSO	
774	*29	*68	*40	*44	*03	*16		*68:03					SSP SSO	
779	*29	*68	*40	*44	*03	*16		*68:03	*40:02		*03:04		SSP SSO	C*03:06
3186	*29	*68	*40	*44	*03	*16							SSO	
3545	*29	*68	*40	*44	*03	*16	*29:02	*68:03	*40:02	*44:03	*03:04	*16:01	SSO SBT	A*29:95 A*29:100 B*40:303 B*40:356 C*16:111 C*16:112 C*03:358 C*03:359
3632	*29	*68	*40	*44	*03	*16	*29:02	*68:03	*40:02	*44:03	*03:04	*16:01	SSP SSO	
3766	*29	*68	*40	*44	NT	NT								
3808	*29	*68	*40	*44	*03	*16			*40:02:01G		*03:04:01G		SSP	
4079	*29	*68	*40	*44	*03	*16	*29:02	*68:03	*40:02	*44:03	*03:04	*16:01	SSP NGS	
4251	*29	*68	*40	*44	*03	*16	*29:02:01G	*68:03	*40:02:01G	*44:03	*03:04:01G	*16:01:01G	SSO SBT	
5133							*29:02:01	*68:03:01	*40:02:01:01	*44:03:01:01	*03:04:01	*16:01:01:01	NGS	
5214	*29	*68	*40 (B61)	*44	*03 (Cw10)	*16							SSO	
5462	*29	*68	*40	*44	*03	*16	*29:02	*68:03	*40:02	*44:03	*03:04	*16:01	SSO NGS	
5642	*29	*68	*40	*44	*03	*16								
6649	*29	*68	*40	*44									SSO	
8001	*29	*68	*40 (B61)	*44	*03 (Cw10)	*16							SSP SSO	
8043	*29	*68	*40	*44	*03	*16							SSO	
8070							*29:02	*68:03	*40:02	*44:03	*03:04	*16:01	SBT	

Table 14. Individual laboratory results for Cell #1632

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*68	*35	*48	*04	*08	*02:06	*68:03	*35:12	*48:01	*04:01	*08:01		
725	*02	*68	*35	*48	*04	*08							SSO	
745							*02:06:01:01	*68:03:01	*35:12:01	*48:01:01	*04:01:01	*08:01:01:01	SSP SBT NGS	
747	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO NGS	
762							*02:06:01:01	*68:03:01	*35:12:01	*48:01:01:01	*04:01:01	*08:01:01:01	NGS	
771	*02	*68	*35	*48	*04	*08	*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SSP SSO	
774	*02	*68	*35	*48	*04	*08		*68:03	*35:12				SSP SSO	
779	*02	*68	*35	*48	*04	*08		*68:03					SSP SSO	
3186	*02	*68	*35	*48	*04	*08							SSO	
3545	*02	*68	*35	*48	*04	*08	*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SSO SBT	C*04:30 C*04:82 C*04:226 C*04:275 C*04:277 C*08:22 C*08:99 C*08:102
3632	*02	*68	*35	*48	*04	*08	*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SSP SSO	
3766	*02	*68	*35	*48	NT	NT								
3808	*02	*68	*35	*48	*04	*08							SSP	
4079	*02	*68	*35	*48	*04	*08	*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SSP NGS	
4251	*02	*68	*35	*48	*04	*08	*02:06:01G	*68:03	*35:12	*48:01:01G	*04:01P	*08:01:01G	SSO SBT	
5133							*02:06:01:01	*68:03:01	*35:12:01	*48:01:01:01	*04:01:01	*08:01:01:01	NGS	
5214	*02	*68	*35	*48	*04	*08							SSO	
5462	*02	*68	*35	*48	*04	*08	*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SSO NGS	
5642	*02	*68	*35	*48	*04	*08								
6649	*02	*68	*35	*48									SSO	
8001	*02	*68	*35	*48	*04	*08							SSP SSO	
8043	*02	*68	*35	*48	*04	*08							SSO	
8070							*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SBT	

Table 15. Individual laboratory results for Cell #1629-1632 by serology

Investigator	Days Old	Cell No 1629 (Chinese)									Cell No 1630 (Asian)					Cell No 1631 (Hispanic)									Cell No 1632 (Hispanic)								
		Viab %	A1	A2	B62	B52	Cw4	Bw4	Bw6	OTHERS	Viab %	A11	B15	Cw8	Bw6	OTHERS	Viab %	A29	A68	B40	B44	Cw3	Bw6	Bw4	OTHERS	Viab %	A2	A68	B35	B48	Cw4	Cw8	Bw6
Cecka, J. Mic	3	>95	+	+	+	+		+	+		>95	+	B75		+	>95	+	+	B61	+		+	+		>95	+	+	+	+			+	
Enczmann, J		80	+	+	+	+					80	+	B75			80	+	+	B61	+					80	+	+	+	+				
Fort, Marylis	3	95	+	+	+	+		+	+		98	+	B75		+	NT									NT								
Hahn, Amy B.		99	+	+	B15	+		+	+	B70	99	+	B75	+	B35	99	+	+	B61	+		+	+		99	+	+	+				+	B81
Hogan, Patric		90	+	+	+	+		+	+		90	+	B75	+		90	+	+	B61	+	+	+	+		50	+	A28	+	+	+	+	+	
Hubbell, Char		95	+	+	B75	+		+	+		95	+	B75	+		95	+		B61	+		+	+	A69	95	+	+	+	+			+	
Kafetzi, Mari		95	+	+	+	+					95	+	B75			95	+	+	+	+					95	+	+	+	+				
Latham, Katy	3	100	+	+	+	+		+	+		100	+	+	+		100	+	+	+	+		+	+		100	+	+	+	+			+	
Permpikul, Ve	6	90	+	+	+	+		+	+		90	A11.1	B75	+	B62	90	+	+	B60	+		+	+		90	+	+	+	+			+	
Pule, Ziningi		80	+	+	+	+		+	+	Cw3	80	+	B62	+	A3,B35	90	+	+	B73	+	+		+	B45,A28	90	+	+	+			+		
Renac, Virgin	3	100	+	+	B15	+		+	+		100	+	+	+		100	+	A28	+	+		+	+		100	+	A28	+	+			+	
Shai, Isaac	9	86	+	+	+	+	Cw6	+	+	Cw4,B35	86	+	B62	+	B35,Cw3	88	+	A28	B60	+	+	+	+	Cw7,Cw8	86	+	A28	+	+	+	+	+	B40
Vidan-Jeras,	7	100	+	+	+	+		+	+		95	+	B75	+		100	+	+	B61	+	+	+	+		100	+	+	+	+	+	+	+	
Villard, Jean		60	+	+	B15	+	Cw4	+	+	Cw12	85	+	+	+	Bw4	NT									NT								