

CELL EXCHANGE #407

NOVEMBER 26, 2018

Cells 1625-1628

The results for Cell Exchange #407 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 1625. The reported consensus type for this sample from a donor of mixed race (African American and Caucasian) is A*01:01(A1)-A*34:02(A34)-B*14:02(B65)-B*57:01(B57)-C*06:02-C*08:02. One likely class I association present in this cell is A*01:01-B*57:01-C*06:02, with HF=0.00261, in African Americans. The other likely association present is A*34:02-B*14:02-C*08:02, observed exclusively in Caucasians, with HF=0.00006. A*01:01, A*34:02, B*14:02, B*57:01, C*06:02, and C*08:02 were each reported in complete consensus, with 4 labs reporting A*01:01:01:01, A*34:02:01, B*14:02:01:01, B*57:01:01, C*06:02:01:01, and C*08:02:01:01. A1 (100%), A34 (91%), B65 (64%), and B57 (100%) were assigned by serology.

Cell 1626. The reported consensus type for this sample from an Hispanic donor is A*11:01(A11)-A*29:02(A29)-B*35:01(B35)-B*44:03(B44)-C*04:01-C*16:01. The likely haplotypes present in this cell are A*11:01-B*35:01-C*04:01 and A*29:02-B*44:03-C*16:01, with respective HF=0.00687 and 0.02457, in Hispanics. A*11:01, A*29:02, B*35:01, B*44:03, C*04:01, and C*16:01 were each assigned in complete consensus, with 4 labs reporting A*11:01:01:01, A*29:02:01:01, B*35:01:01, B*44:03:01, C*04:01:01:05, and C*16:01:01:01. A11 (100%), A29 (100%), B35 (91%), and B44 (100%) were well assigned by labs reporting serological results.

Cell 1627. The reported consensus type for this sample from an African American donor is A*23:01(A23)-A*30:02(A30)-B*53:01(B53)-C*04:01-C*08:02. The likely associations present in this cell are A*30:02-B*53:01-C*04:01 and A*23:01-B*53:01-C*08:02, with respective HF=0.00297 and 0.00131, in African Americans. The association of A*23:01-B*53:01-C*08:02 in this cell was also observed in cell 927, also from an African American donor. A*23:01, A*30:02, B*53:01, C*04:01, and C*08:02 were each assigned in complete consensus, with 3 labs reporting A*23:01:01, A*30:02:01:02, B*53:01:01, C*04:01:01, and C*08:02:01:01. A23 (100%), A30 (100%), and B53 (100%) were well assigned by serology.

Cell 1628. The reported consensus type for this sample from a Hispanic donor is A*01:01(A1)-A*02:06(A2)-B*51:01(B51)-B*57:01(B57)-C*07:01-C*15:02. The likely associations present in this cell are A*01:01-B*57:01-C*07:01 and A*02:06-B*51:01-C*15:02, with respective HF=0.00227 and 0.00027, in Hispanics. A*01:01, A*02:06, B*51:01, B*57:01, C*07:01, and C*15:02 were each assigned in complete consensus, with 3 labs assigning A*01:01:01:01, A*02:06:01:01, B*51:01:01, B*57:01:01:01, C*07:01:01, and C*15:02:01:01.

NEXT MAILING DATE: February 6, 2019

Happy Holidays!

Arlene Locke, David Gjertson, Qiheng Zhang, and Elaine F. Reed



Table 9. Summary of the 407th Cell Exchange (Cell #1625-1628)

DNA typing

Cell 1625	
17 low/11 high labs - A	%(n)
A*01:01:01:01	36(4)
A*01:01:01G	9 (1)
A*01:01	55(6)
A*01	100(17)
17 low/11 high labs - A	%(n)
A*34:02:01	36(4)
A*34:02	64(7)
A*34	100(17)
17 low/13 high labs - B	%(n)
B*14:02:01:01	31(4)
B*14:02	69(9)
B*14	100(17)
17 low/12 high labs - B	%(n)
B*57:01:01:01	25(3)
B*57:01:01	8 (1)
B*57:01	67(8)
B*57	100(17)
15 low/11 high Labs - C	%(n)
C*06:02:01:01	36(4)
C*06:02:01G	9 (1)
C*06:02	55(6)
C*06	100(15)
15 low/11 high Labs - C	%(n)
C*08:02:01:01	36(4)
C*08:02	64(7)
C*08	100(15)

Cell 1626	
17 low/11 high labs - A	%(n)
A*11:01:01:01	36(4)
A*11:01:01G	9 (1)
A*11:01	55(6)
A*11	100(17)
17 low/11 high labs - A	%(n)
A*29:02:01:01	36(4)
A*29:02:01G	9 (1)
A*29:02	55(6)
A*29	100(17)
17 low/11 high labs - B	%(n)
B*35:01:01:05	27(3)
B*35:01:01	9 (1)
B*35:01:01G	9 (1)
B*35:01	55(6)
B*35	100(17)
17 low/11 high labs - B	%(n)
B*44:03:01	36(4)
B*44:03	64(7)
B*44	100(17)
15 low/11 high Labs - C	%(n)
C*04:01:01:05	36(4)
C*04:01P	9 (1)
C*04:01	55(6)
C*04	100(15)
15 low/11 high Labs - C	%(n)
C*16:01:01:01	36(4)
C*16:01:01G	9 (1)
C*16:01	55(6)
C*16	100(15)

Cell 1627	
15 low/11 high labs - A	%(n)
A*23:01:01	27(3)
A*23:01:01G	18(2)
A*23:01	55(6)
A*23	100(15)
15 low/11 high labs - A	%(n)
A*30:02:01:02	27(3)
A*30:02	73(8)
A*30	100(15)
15 low/11 high labs - B	%(n)
B*53:01:01	27(3)
B*53:01	73(8)
B*53	100(15)
13 low/11 high Labs - C	%(n)
C*04:01:01	27(3)
C*04:01:01G	9 (1)
C*04:01P	9 (1)
C*04:01	55(6)
C*04	100(13)
13 low/11 high Labs - C	%(n)
C*08:02:01:01	27(3)
C*08:02	73(8)
C*08	100(13)

Cell 1628	
15 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(15)
15 low/10 high labs - A	%(n)
A*02:06:01:01	30(3)
A*02:06	70(7)
A*02	100(15)
15 low/10 high labs - B	%(n)
B*51:01:01:05	20(2)
B*51:01:01	10(1)
B*51:01P	10(1)
B*51:01	60(6)
B*51	100(15)
15 low/11 high labs - B	%(n)
B*57:01:01:01	27(3)
B*57:01	73(8)
B*57	100(15)
13 low/11 high labs - C	%(n)
C*07:01:01:01	18(2)
C*07:01:01	9 (1)
C*07:01:01G	18(2)
C*07:01	55(6)
C*07	100(13)
13 low/10 high labs - C	%(n)
C*15:02:01:01	30(3)
C*15:02:01G	10(1)
C*15:02	60(6)
C*15	100(13)

Table 10. Summary of the 407th Cell Exchange (Cell #1625 - 1628)

Serological typing							
(Mixed)		(Hispanic)		(Black)		(Hispanic)	
Cell 1625		Cell 1626		Cell 1627		Cell 1628	
(11 Samples Typed)		(11 Samples Typed)		(9 Samples Typed)		(9 Samples Typed)	
A1	100.0%	A11	90.9%	A23	100.0%	A1	100.0%
		A11.1	9.1%		[100.0%]		
A34	90.9%		[100.0%]			A2	100.0%
A10	9.1%			A30	100.0%		[100.0%]
	[100.0%]	A29	100.0%		[100.0%]		
			[100.0%]			B51	100.0%
B14	36.4%			B53	100.0%		[100.0%]
B65	63.6%	B35	90.9%				
	[100.0%]			CW4	22.2%	B57	100.0%
		B44	100.0%		[22.2%]		[100.0%]
B57	100.0%		[100.0%]				
	[100.0%]	CW4	27.3%	CW8	22.2%	CW7	22.2%
CW6	18.2%	CW16	9.1%	BW4	88.9%		
	[18.2%]					BW4	88.9%
		BW4	90.9%				
CW8	18.2%						
		BW6	90.9%				
BW4	90.9%						
BW6	90.9%						
Others Found		Others Found		Others Found		Others Found	
		B70	9.1%				

Table 11. Individual laboratory results for Cell #1625

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*01	*34	*14	*57	*06	*08	*01:01	*34:02	*14:02	*57:01	*06:02	*08:02		
725	*01	*34	*14	*57	*06	*08							SSO	
745							*01:01:01:01	*34:02:01	*14:02:01:01	*57:01:01:01	*06:02:01:01	*08:02:01:01	SSP SBT NGS	
747	*01	*34	*14	*57	*06	*08	*01:01:01:01	*34:02:01	*14:02:01:01	*57:01:01	*06:02:01:01	*08:02:01:01	SSP SSO NGS	
762							*01:01:01:01	*34:02:01	*14:02:01:01	*57:01:01:01	*06:02:01:01	*08:02:01:01	NGS	
771	*01	*34	*14	*57	*06	*08	*01:01	*34:02	*14:02	*57:01	*06:02	*08:02	SSO SBT	
774	*01	*34	*14	*57	*06	*08			*14:02	*57:01			SSP SSO	B*14:39 B*57:29 B*57:37 B*57:55 B*57:01
779	*01	*34	*14	*57	*06	*08			*14:02				SSP SSO	
3186	*01	*34	*14	*57	*06	*08							SSO	
3545	*01	*34	*14	*57	*06	*08	*01:01	*34:02	*14:02	*57:01	*06:02	*08:02	SSO SBT	A*01:234 C*06:83 A*01:237
3632	*01	*34	*14	*57	*06	*08	*01:01	*34:02	*14:02	*57:01	*06:02	*08:02	SSP SSO	
3766	*01	*34	*14	*57	NT	NT							SSO	
3808	*01	*34	*14	*57	*06	*08							SSP	
4079	*01	*34	*14	*57	*06	*08							SSP SSO	
4251	*01	*34	*14	*57	*06	*08	*01:01:01G	*34:02	*14:02	*57:01	*06:02:01G	*08:02	SSO SBT	
5133							*01:01:01:01	*34:02:01	*14:02:01:01	*57:01:01:01	*06:02:01:01	*08:02:01:01	NGS	
5214	*01	*34	*14	*57	*06	*08							SSO	
5462	*01	*34	*14	*57	*06	*08	*01:01	*34:02	*14:02	*57:01	*06:02	*08:02	SSO NGS	
6649	*01	*34	*14	*57									SSO	
8001	*01	*34	*14	*57	*06	*08							SSP SSO	
8070							*01:01	*34:02	*14:02	*57:01	*06:02	*08:02	SBT	

Table 12. Individual laboratory results for Cell #1626

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*11	*29	*35	*44	*04	*16	*11:01	*29:02	*35:01	*44:03	*04:01	*16:01		
725	*11	*29	*35	*44	*04	*16							SSO	
745							*11:01:01:01	*29:02:01:01	*35:01:01	*44:03:01	*04:01:01:05	*16:01:01:01	SSP SBT NGS	
747	*11	*29	*35	*44	*04	*16	*11:01:01:01	*29:02:01:01	*35:01:01:05	*44:03:01	*04:01:01:05	*16:01:01:01	SSP SSO NGS	
762							*11:01:01:01	*29:02:01:01	*35:01:01:05	*44:03:01	*04:01:01:05	*16:01:01:01	NGS	
771	*11	*29	*35	*44	*04	*16	*11:01	*29:02	*35:01	*44:03	*04:01	*16:01	SSO SBT	
774	*11	*29	*35	*44	*04	*16							SSP SSO	
779	*11	*29	*35	*44	*04	*16							SSP SSO	
3186	*11	*29	*35	*44	*04	*16							SSO	
														A*29:100 C*16:111 C*16:112 A*11:263 A*29:95 B*35:42 B*35:332 B*35:347 C*04:30 C*04:82 C*04:226 C*04:275 C*04:277
3545	*11	*29	*35	*44	*04	*16	*11:01	*29:02	*35:01	*44:03	*04:01	*16:01	SSO SBT	
3632	*11	*29	*35	*44	*04	*16	*11:01	*29:02	*35:01	*44:03	*04:01	*16:01	SSP SSO	
3766	*11	*29	*35	*44	NT	NT							SSO	
3808	*11	*29	*35	*44	*04	*16							SSP	
4079	*11	*29	*35	*44	*04	*16							SSP SSO	
4251	*11	*29	*35	*44	*04	*16	*11:01:01G	*29:02:01G	*35:01:01G	*44:03	*04:01P	*16:01:01G	SSO SBT	
5133							*11:01:01:01	*29:02:01:01	*35:01:01:05	*44:03:01	*04:01:01:05	*16:01:01:01	NGS	
5214	*11	*29	*35	*44	*04	*16							SSO	
5462	*11	*29	*35	*44	*04	*16	*11:01	*29:02	*35:01	*44:03	*04:01	*16:01	SSO NGS	
6649	*11	*29	*35	*44									SSO	
8001	*11	*29	*35	*44	*04	*16							SSP SSO	
8070							*11:01	*29:02	*35:01	*44:03	*04:01	*16:01	SBT	

Table 13. Individual laboratory results for Cell #1627

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*23	*30	*53	*53	*04	*08	*23:01	*30:02	*53:01	*53:01	*04:01	*08:02		
725	*23	*30	*53		*04	*08							SSO	
745							*23:01:01	*30:02:01:02	*53:01:01		*04:01:01	*08:02:01:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*23:01:01	*30:02:01:02	*53:01:01		*04:01:01	*08:02:01:01	NGS	
771	*23	*30	*53		*04	*08	*23:01	*30:02	*53:01		*04:01	*08:02	SSO SBT	
774	*23	*30	*53		*04	*08							SSP SSO	
779	*23	*30	*53		*04	*08							SSP SSO	
3186	*23	*30	*53	*53	*04	*08							SSO	
3545	*23	*30	*53		*04	*08	*23:01	*30:02	*53:01		*04:01	*08:02	SSO SBT	A*23:17 C*04:30 C*04:82 C*04:226 C*04:275 C*04:277
3632	*23	*30	*53		*04	*08	*23:01	*30:02	*53:01		*04:01	*08:02	SSP SSO	
3766	*23	*30	*53		NT	NT							SSO	B*35 B*58
3808	*23	*30	*53	*53	*04	*08	*23:01:01G	*30:02	*53:01	*53:01	*04:01:01G	*08:02	SSP	
4079	NT												SSP SSO	
4251	*23	*30	*53	*53	*04	*08	*23:01:01G	*30:02	*53:01	*53:01	*04:01P	*08:02	SSO SBT	
5133							*23:01:01	*30:02:01:02	*53:01:01		*04:01:01	*08:02:01:01	NGS	
5214	*23	*30	*53		*04	*08							SSO	
5462	*23	*30	*53		*04	*08	*23:01	*30:02	*53:01		*04:01	*08:02	SSO NGS	
6649	*23	*30	*53										SSO	
8001	*23	*30	*53		*04	*08							SSP SSO	
8070							*23:01	*30:02	*53:01		*04:01	*08:02	SBT	

Table 14. Individual laboratory results for Cell #1628

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*01	*02	*51	*57	*07	*15	*01:01	*02:06	*51:01	*57:01	*07:01	*15:02		
725	*01	*02	*51	*57	*07	*15							SSO	
745							*01:01:01:01	*02:06:01:01	*51:01:01	*57:01:01:01	*07:01:01	*15:02:01:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*01:01:01:01	*02:06:01:01	*51:01:01:05	*57:01:01:01	*07:01:01:01	*15:02:01:01	NGS	
771	*01	*02	*51	*57	*07	*15	*01:01	*02:06	*51:01	*57:01	*07:01	*15:02	SSO SBT	
774	*01	*02	*51	*57	*07	*15				*57:01			SSP SSO	B*57:14 B*57:29 B*57:37 B*57:55
779	*01	*02	*51	*57	*07	*15							SSP SSO	
3186	*01	*02	*51	*57	*07	*15							SSO	
														A*01:237 A*01:234 B*51:193 B*51:224 C*07:06 C*07:18 C*07:343 C*07:419 C*07:458 C*07:591 C*07:610 C*15:87
3545	*01	*02	*51	*57	*07	*15	*01:01	*02:06	*51:01	*57:01	*07:01	*15:02	SSO SBT	
3632	*01	*02	*51	*57	*07	*15	*01:01	*02:06	*51:01	*57:01	*07:01	*15:02	SSP SSO	
3766	*01	*02	*51	*57	NT	NT							SSO	
3808	*01	*02	*51	*57	*07	*15					*07:01:01G		SSP	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*01	*02	*51	*57	*07	*15	*01:01:01G	*02:06	*51:01P	*57:01	*07:01:01G	*15:02:01G	SSO SBT	
5133							*01:01:01:01	*02:06:01:01	*51:01:01:05	*57:01:01:01	*07:01:01:01	*15:02:01:01	NGS	
5214	*01	*02	*51	*57	*07	*15							SSO	
5462	*01	*02	*51	*57	*07	*15	*01:01	*02:06	*51:01	*57:01	*07:01	*15:02	SSO NGS	
6649	*01	*02	*51	*57									SSO	
8001	*01	*02	*51	*57	*07	*15							SSP SSO	
8070							*01:01	*02:06	*51:01	*57:01	*07:01	*15:02	SBT	

Table 15. Individual laboratory results for Cell #1625-1628 by serology

Investigator	Days Old	Cell No 1625 (Mixed)					Cell No 1626 (Hispanic)							Cell No 1627 (Black)					Cell No 1628 (Hispanic)																		
		Viab %	A1	A34	B14	B57	Cw6	Cw8	Bw4	Bw6	OTHERS	Viab %	A11	A29	B35	B44	Bw4	Bw6	Cw4	Cw16	OTHERS	Viab %	A23	A30	B53	Cw4	Cw8	Bw4	OTHERS	Viab %	A1	A2	B51	B57	Cw7	Cw15	Bw4
Cecka, J. Mic	3	>95	+	+	B65	+					>95	+	+	+	+	+	+				>95	+	+	+			+		>95	+	+	+	+			+	
Enczmann, J		90	+	+	B65	+					90	+	+	+	+						90	+	+	+			+		90	+	+	+	+			+	
Fort, Marylis	6	97	+	+	+	+					98	+	+	+	+	+	+				NT								NT								
Hahn, Amy B.		99	+	+	+	+					99	+	+	B70	+	+	+				99	+	+	+			+		99	+	+	+	+			+	
Hogan, Patric		90	+	+	B65	+					90	+	+	+	+	+	+	+			90	+	+	+	+	+	+		90	+	+	+	+	+		+	
Hubbell, Char		95	+	+	B65	+					95	+	+	+	+	+	+				95	+	+	+			+		95	+	+	+	+			+	
Latham, Katy	6	95	+	+	B65	+					95	+	+	+	+	+	+				90	+	+	+			+		90	+	+	+	+			+	
Permpikul, Ve	7	90	+	+	B65	+					90	A11.1	+	+	+	+	+				90	+	+	+			+		90	+	+	+	+			+	
Renac, Virgin	37	99	+	A10	+	+					99	+	+	+	+	+	+				99	+	+	+			+		99	+	+	+	+			+	
Shai, Isaac	NT										NT										NT								NT								
Vidan-Jeras,	7	100	+	+	B65	+	+	+	+	+	100	+	+	+	+	+	+	+			100	+	+	+	+	+	+		100	+	+	+	+	+		+	
Villard, Jean	???	90	+	+	+	+	+	+	+	+	85	+	+	+	+	+	+	+	+																		