

CELL EXCHANGE #413

NOVEMBER 26, 2019

Cells 1649-1652

The results for Cell Exchange #413 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 1649. The reported consensus for this cell from a Chinese donor was A*02:01(A2)-A*24:02(A24)-B*39:01(B39)-B*54:01(B54)-C*01:02-C*07:02. Likely associations present were A*02:01-B*54:01-C*01:02 and A*24:02-B*39:01-C*07:02, observed in Asians, with respective HF = 0.00881 and 0.00239.

Good agreement was achieved among DNA labs in the reporting of the class I specificities for this sample. Among the labs reporting at high resolution, 4 assigned A*02:01:01, A*24:02:01, B*39:01:01, C*01:02:01, and C*07:02:01. B*54:01:01 was reported by 5 labs. Serological assignments were reported as A2 (100%), A24 (100%), B39 (88%), and B54 (88%).

Cell 1650. The reported consensus for this cell from a Filipino donor was A*02:01(A2)-A*11:01(A11)-B*15:13(B77)-B*38:02(B38)-C*07:02-C*08:01. The likely associations present in this cell were B*38:02-C*07:02 and B*15:13-C*08:01, observed in Asians, with HF = 0.03576 and 0.00171.

Good agreement was achieved among DNA labs in the reporting of class I assignments, with A*02:01:01, A*11:01:01, C*07:02:01, and C*08:01:01 each assigned by 4 labs. B*38:02:02 was reported by 5 labs. Good agreement was also achieved among labs reporting by serology, as A2 (100%), A11 (100%), B77 (89%), and B38 (100%) were reported.

Cell 1651. The reported consensus for this cell from a Caucasian donor was A*02:05(A2)-A*11:01(A11)-B*49:01(B49)-B*51:01(B51)-C*03:03-C*07:01. Likely associations present in this cell were A*02:05-B*49:01-C*07:01 and A*11:01-B*51:01-C*03:03, with respective HF = 0.00141 and 0.00077.

Good agreement was achieved among DNA labs in the reporting of class I types for this sample. Among the labs reporting at high resolution, 3 labs assigned A*02:05:01:01, A*11:01:01, B*49:01:01, B*51:01:01, C*03:03:01, and C*07:01:01. Serological assignments were reported as A2 (100%), A11 (100%), B49 (88%), and B51 (100%).

Cell 1652. The reported consensus for this cell from an Asian Indian donor was A*31:12(A31)-A*68:01(A68)-B*15:01(B62)-B*15:18(B70)-C*03:03-C*07:04. The likely associations present were B*15:01-C*03:03 and B*15:18-C*07:04, observed in Asians, with respective HF = 0.01098 and 0.00455.

This cell was previously examined as cell 1594 (2017). In this present re-typing, good agreement was once again achieved in the reporting of the class I types for this cell. A*68:01:02, B*15:01:01, C*03:03:01, and C*07:04:01 were each reported by 3 labs, while B*15:01:01 and B*15:18:01 were each reported by 4 labs. A31 (100%), A68 (86%), B62 (86%), and B70 (86%) were well assigned by serology, with 2 labs assigning B71 as the B70 split.



NEXT MAILING DATE: February 5, 2020

Season's Greetings!

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Table 7. Summary of the 413th Cell Exchange (Cell #1649-1652)

DNA typing

Cell 1649	
14 low/11 high labs - A	%(n)
A*02:01:01:01	27(3)
A*02:01:01	9 (1)
A*02:01:01G	9 (1)
A*02:01	55(6)
A*02	100(14)
14 low/11 high labs - A	%(n)
A*24:02:01:01	27(3)
A*24:02:01	9 (1)
A*24:02P	9 (1)
A*24:02	55(6)
A*24	100(14)
14 low/11 high labs - B	%(n)
B*39:01:01:03	18(2)
B*39:01:01	18(2)
B*39:01:01G	9 (1)
B*39:01P	9 (1)
B*39:01	46(5)
B*39	100(14)
14 low/11 high labs - B	%(n)
B*54:01:01	45(5)
B*54:01	54(6)
B*54	100(14)
13 low/11 high Labs - C	%(n)
C*01:02:01	36(4)
C*01:02:01G	9 (1)
C*01:02	55(6)
C*01	100(13)
13 low/11 high Labs - C	%(n)
C*07:02:01:15	9 (1)
C*07:02:01	27(3)
C*07:02:01G	9 (1)
C*07:02	55(6)
C*07	100(13)

Cell 1650	
15 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(15)
15 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(15)
15 low/13 high labs - B	%(n)
B*15:13:01	38(5)
B*15:13	62(8)
B*15(B77)	13(2)
B*15	87(13)
15 low/13 high labs - B	%(n)
B*38:02:02	38(5)
B*38:02	62(8)
B*38	100(15)
14 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(14)
14 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(14)

Cell 1651	
14 low/11 high labs - A	%(n)
A*02:05:01:01	27(3)
A*02:05	73(8)
A*02	100(14)
14 low/11 high labs - A	%(n)
A*11:01:01:01	18(2)
A*11:01:01	9 (1)
A*11:01:01G	9 (1)
A*11:01	64(7)
A*11	100(14)
14 low/10 high labs - B	%(n)
B*49:01:01	30(3)
B*49:01:01G	10(1)
B*49:01	60(6)
B*49	100(14)
14 low/10 high labs - B	%(n)
B*51:01:01:01	10(1)
B*51:01:01	20(2)
B*51:01:01G	10(1)
B*51:01P	20(2)
B*51:01	40(4)
B*51	100(14)
13 low/11 high Labs - C	%(n)
C*03:03:01	27(3)
C*03:03:01G	9(1)
C*03:03	64(7)
C*03(C9)	15(2)
C*03	85(11)
13 low/11 high Labs - C	%(n)
C*07:01:01	27(3)
C*07:01:01G	9 (1)
C*07:01	64(7)
C*07	100(13)

Cell 1652	
12 low/10 high labs - A	%(n)
A*31:12	100(10)
A*31	100(12)
12 low/10 high labs - A	%(n)
A*68:01:02:01	30(3)
A*68:01:02G	10(1)
A*68:01P	10(1)
A*68:01	50(5)
A*68	100(13)
13 low/10 high labs - B	%(n)
B*15:01:01:01	30(3)
B*15:01:01	10(1)
B*15:01:01G	10(1)
B*15:01P	10(1)
B*15:01	40(4)
B*15(B62)	15(2)
B*15	85(11)
13 low/11 high labs - B	%(n)
B*15:18:01	36(4)
B*15:18	64(7)
B*15(B71)	15(2)
B*15	85(11)
12 low/10 high labs - C	%(n)
C*03:03:01	30(3)
C*03:03:01G	10(1)
C*03:03	60(6)
C*03(C9)	17(2)
C*03	83(10)
12 low/10 high labs - C	%(n)
C*07:04:01	30(3)
C*07:04:01G	10(1)
C*07:04	60(6)
C*07	100(12)

Table 8. Summary of the 413th Cell Exchange (Cell #1649 - 1652)

Serological typing							
(Chinese) Cell 1649 (8 Samples Typed)		(Filipino) Cell 1650 (9 Samples Typed)		(Caucasian) Cell 1651 (8 Samples Typed)		(Asian Indian) Cell 1652 (7 Samples Typed)	
A2	100.0%	A2	100.0%	A2	100.0%	A31	100.0%
	[100.0%]		[100.0%]		[100.0%]		[100.0%]
A24	100.0%	A11	88.9%	A11	87.5%	A68	85.7%
	[100.0%]	A11.1	11.1%	A11.1	12.5%	A28	14.3%
			[100.0%]		[100.0%]		[100.0%]
B39	87.5%	B77	88.9%	B49	87.5%	B62	85.7%
	[87.5%]	B15	11.1%	B21	12.5%	B15	14.3%
			[100.0%]		[100.0%]		[100%]
B54	87.5%	B38	100.0%	B51	100.0%	B71	28.6%
B22	12.5%		[100.0%]		[100.0%]	B70	57.1%
	[100.0%]						[85.7%]
Cw1	37.5%	Cw7	33.3%	Cw7	25.0%	Cw7	28.6%
Cw7	37.5%	Cw8	33.3%				
Bw6	100.0%	Bw4	100.0%	Bw4	100.0%	Bw6	100.0%
Others Found		Others Found		Others Found		Others Found	
B67	12.5%			Cw3	25.0%	Cw3	28.6%

Table 9a. Individual laboratory results for Cell #1649 - 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	*39	*54	*01	*07	*02:01	*24:02	*39:01	*54:01	*01:02	*07:02	SSP SSO	
725	*02	*24	*39	*54	*01	*07							SSO	
731	*02	*24	*39	*54	*01	*07	*02:01	*24:02	*39:01:01G	*54:01:01	*01:02	*07:02	SSP SSO SBT	
745							*02:01:01:01	*24:02:01:01	*39:01:01	*54:01:01	*01:02:01	*07:02:01	SSP SBT NGS	
747	*02	*24	*39	*54	*01	*07	*02:01:01:01	*24:02:01:01	*39:01:01:03	*54:01:01	*01:02:01	*07:02:01:15	SSP SSO NGS	
762							*02:01:01:01	*24:02:01:01	*39:01:01:03	*54:01:01	*01:02:01	*07:02:01	NGS	
771	*02	*24	*39	*54	*01	*07	*02:01	*24:02	*39:01	*54:01	*01:02	*07:02	SSO SBT	
774	*02	*24	*39	*54	*01	*07							SSO	
3186	*02	*24	*39	*54	*01	*07							SSO	
3545	*02	*24	*39	*54	*01	*07	*02:01	*24:02	*39:01	*54:01	*01:02	*07:02	SSP SSO SBT	
3632	*02	*24	*39	*54	*01	*07	*02:01	*24:02	*39:01	*54:01	*01:02	*07:02	SSP SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*02	*24	*39	*54	*01	*07	*02:01:01G	*24:02P	*39:01	*54:01	*01:02:01G	*07:02:01G	SSO SBT	
5133							*02:01:01	*24:02:01	*39:01:01	*54:01:01	*01:02:01	*07:02:01	NGS	
5214	*02	*24	*39	*54	*01	*07							SSO	
5462	*02	*24	*39	*54	*01	*07	*02:01	*24:02	*39:01P	*54:01	*01:02	*07:02	SSO NGS	
6649	*02	*24	*39	*54									SSO	
8001	*02	*24	*39	*54	*01	*07							SSO	

Table 9b: Individual laboratory results for Cell #1649 - Class II														
Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
3186	*08	*12	3*01	NP	*01	*06	*03	*06	*02	*02	*05	*05	SSO	

Table 10a. Individual laboratory results for Cell #1650 - 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	*38	*07	*08	*02:01	*11:01	*15:13	*38:02	*07:02	*08:01	SSP SSO	
725	*02	*11	*15	*38	*07	*08							SSO	
731	*02	*11	*15	*38	*07	*08	*02:01	*11:01	*15:13:01	*38:02:02	*07:02	*08:01	SSP SSO SBT	
745							*02:01:01:01	*11:01:01:01	*15:13:01	*38:02:02	*07:02:01	*08:01:01:01	SSP SBT NGS	
747	*02	*11	*15	*38	*07	*08	*02:01:01:01	*11:01:01:01	*15:13:01	*38:02:02	*07:02:01:01	*08:01:01	SSP SSO NGS	
762							*02:01:01:01	*11:01:01:01	*15:13:01	*38:02:02	*07:02:01	*08:01:01:01	NGS	
771	*02	*11	*15	*38	*07	*08	*02:01	*11:01	*15:13	*38:02	*07:02	*08:01	SSO SBT	
774	*02	*11	*15	*38	*07	*08			*15:13	*38:02			SSP SSO	B*38:18 B*38:15
3186	*02	*11	*15	*38	*07	*08							SSO	
														A*02:740 A*02:742 A*02:744 A*02:753 A*02:761 A*02:762 A*02:763 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*02:765 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*11:263 A*11:270 A*11:278 A*11:280 A*11:295 A*11:303 A*11:306 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*08:22 C*08:99 C*08:102 C*08:178
3545	*02	*11	*15	*38	*07	*08	*02:01	*11:01	*15:13	*38:02	*07:02	*08:01	SSP SSO SBT	
3632	*02	*11	*15	*38	*07	*08	*02:01	*11:01	*15:13	*38:02	*07:02	*08:01	SSP SSO	
4079	*02	*11	*15	*38	*07	*08	*02:01	*11:01	*15:13	*38:02	*07:02	*08:01	SSP SSO	A*02:704 A*02:719 A*02:742 A*11:278 C*08:127N
4251	*02	*11	*15	*38	*07	*08	*02:01:01G	*11:01:01G	*15:13	*38:02	*07:02:01G	*08:01:01G	SSO SBT	
5133							*02:01:01	*11:01:01	*15:13:01	*38:02:02	*07:02:01	*08:01:01:01	NGS	
5214	*02	*11	*15(B77)	*38	*07	*08							SSO	
5462	*02	*11	*15	*38	*07	*08	*02:01	*11:01	*15:13	*38:02	*07:02	*08:01	SSO NGS	
6649	*02	*11	*15	*38									SSO	
8001	*02	*11	*15(B77)	*38	*07	*08							SSO	

Table 10b: Individual laboratory results for Cell #1650 - Class II														
Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
3186	15	15	5*01	5*01N	*01	*01	*05	*05	*02	*02	*01	*13	SSO	

Table 11a. Individual laboratory results for Cell #1651 - 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	*49	*51	*03	*07	*02:05	*11:01	*49:01	*51:01	*03:03	*07:01	SSP SSO	
725	*02	*11	*49	*51	*03	*07							SSO	
731	*02	*11	*49	*51	*03	*07	*02:05	*11:01	*49:01:01G	*51:01:01G	*03:03	*07:01	SSP SSO SBT	
745							*02:05:01:01	*11:01:01:01	*49:01:01	*51:01:01	*03:03:01	*07:01:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*02:05:01:01	*11:01:01:01	*49:01:01	*51:01:01:01	*03:03:01	*07:01:01	NGS	
771	*02	*11	*49	*51	*03	*07	*02:05	*11:01	*49:01	*51:01	*03:03	*07:01	SSO SBT	
774	*02	*11	*49	*51	*03	*07							SSP SSO	
3186	*02	*11	*49	*51	*03	*07							SSO	
														B*51:260 A*11:263 A*11:270 A*11:278 A*11:280 A*11:295 A*11:303 A*11:306 B*51:193 B*51:224 B*51:230 B*51:232 C*03:20N C*03:227 C*03:341 C*03:357 C*03:372 C*03:383 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 B*51:248 B*51:249 B*51:250 B*51:262 C*03:418 C*03:421N C*03:460
3545	*02	*11	*49	*51	*03	*07	*02:05	*11:01	*49:01	*51:01	*03:03	*07:01	SSP SSO SBT	
3632	*02	*11	*49	*51	*03	*07	*02:05	*11:01	*49:01	*51:01	*03:03	*07:01	SSP SSO	
4079	*02	*11	*49	*51	*03	*07	*02:05	*11:01	NT	NT	*03:03	*07:01	SSP SSO	
4251	*02	*11	*49	*51	*03	*07	*02:05	*11:01:01G	*49:01	*51:01P	*03:03:01G	*07:01:01G	SSO SBT	
5133							*02:05:01:01	*11:01:01	*49:01:01	*51:01:01	*03:03:01	*07:01:01	NGS	
5214	*02	*11	*49	*51	*03(C9)	*07							SSO	
5462	*02	*11	*49	*51	*03	*07	*02:05	*11:01	*49:01	*51:01P	*03:03	*07:01	SSO NGS	B*51:289
6649	*02	*11	*49	*51									SSO	
8001	*02	*11	*49	*51	*03(C9)	*07							SSO	

Table 11b: Individual laboratory results for Cell #1651 - Class II														
Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
3186	*03	*04	4*01	3*01	*03	*05	*02	*03	*01	*02	*04	*14	SSO	

Table 12a. Individual laboratory results for Cell #1652 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*31	*68	*15	*15	*03	*07	*31:12	*68:01	*15:01	*15:18	*03:03	*07:04	SSP SSO	
725	*31	*68	*15	*15	*03	*07							SSO	
731	*31	*68	*15	*15	*03	*07	*31:12	*68:01:02G	*15:01:01	*15:18:01	*03:03	*07:04	SSP SSO SBT	
745							*31:12	*68:01:02:01	*15:01:01:01	*15:18:01	*03:03:01	*07:04:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*31:12	*68:01:02:01	*15:01:01:01	*15:18:01	*03:03:01	*07:04:01	NGS	
771	*31	*68	*15	*15	*03	*07	*31:12	*68:01	*15:01	*15:18	*03:03	*07:04	SSO SBT	
774	*31	*68	*15	*15	*03	*07				*15:18			SSP SSO	B*15:134 B*15:80 B*15:263 B*15:307 B*15:314 B*15:197 B*15:198
3186	*31	*68	*15	*15	*03	*07							SSO	
3545	*31	*68	*15	*15	*03	*07	*31:12	*68:01	*15:01	*15:18	*03:03	*07:04	SSP SSO SBT	
3632	*31	*68	*15	*15	*03	*07	*31:12	*68:01	*15:01	*15:18	*03:03	*07:04	SSP SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*31	*68	*15	*15	*03	*07	*31:12	*68:01P	*15:01:01G	*15:18	*03:03:01G	*07:04:01G	SSO SBT	
5133							*31:12	*68:01:02:01	*15:01:01:01	*15:18:01	*03:03:01	*07:04:01	NGS	
5214	*31	*68	*15(B62)	*15(B71)	*03(C9)	*07							SSO	
5462	*31	*68	*15	*15	*03	*07	*31:12	*68:01	*15:01P	*15:18	*03:03	*07:04	SSO NGS	
6649	*31	*68	*15	*15									SSO	
8001	*31	*68	*15(B62)	*15(B71)	*03(C9)	*07							SSO	

Table 12b: Individual laboratory results for Cell #1652 - Class II														
Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
3186	*04	15	4*01	5*01	*01	*03	*03	*06	*01	*02	*04	*04	SSO	

Table 13. Individual laboratory results for Cell #1649-1652 by serology

Investigator	Days Old	Viab %	Cell No 1649 (Chinese)								Cell No 1650 (Filipino)								Cell No 1651 (Caucasian)								Cell No 1652 (Asian Indian)									
			A2	A24	B39	B54	Cw1	Cw7	Bw6	OTHERS	Viab %	A2	A11	B77	B38	Cw7	Cw8	Bw4	OTHERS	Viab %	A2	A11	B49	B51	Cw7	Cw9	Bw4	OTHERS	Viab %	A31	A68	B62	B71	Cw7	Cw9	Bw6
Cecka, J. Mic	3	>95	+	+	+	+			+	>95	+	+	+	+			+	>95	+	+	+	+				+	>95	+	+	+	+				+	
Fort, Marylis	3	NT							NT	98	+	+	+	+			+	98	+	+	+	+				+	NT								NT	
Gillis, David		90	+	+	+	+			+	85	+	+	+	+			+	90	+	+	+	+				+	85	+	+	+	+				+	
Latham, Katy	3	95	+	+	+	+			+	95	+	+	+	+			+	95	+	+	+	+				+	95	+	+	+	+				+	B15
Loewenthal ,		70	+	+	+	+	+	+	+	75	+	+	+	+	+	+	+	80	+	+	+	+	+	Cw3	+	80	+	+	+	B70	+	Cw3	+			
Permpikul, Ve	7	90	+	+		+			B67	90	+	A11.1	+	+			+	90	+	A11.1	+	+			+	90	+	+	+	B70				+		
Renac, Virgin	3	100	+	+	+	B22			+	100	+	+	B15	+			+	100	+	+	B21	+			+	100	+	A28	B15	B70				+		
Vidan-Jeras,	7	100	+	+	+	+	+	+	+	100	+	+	+	+	+	+	+	100	+	+	+	+	+	Cw3	+	100	+	+	+	B70	+	Cw3	+			
Villard, Jean	7	60	+	+	+	+	+	+	+	60	+	+	+	+	+	+	+																			