REPORT OF THE 363rd CELL EXCHANGE

MARCH 7, 2012

DNA Extract	**537-540**
Cells	**1449-1452**

Extract Exchange

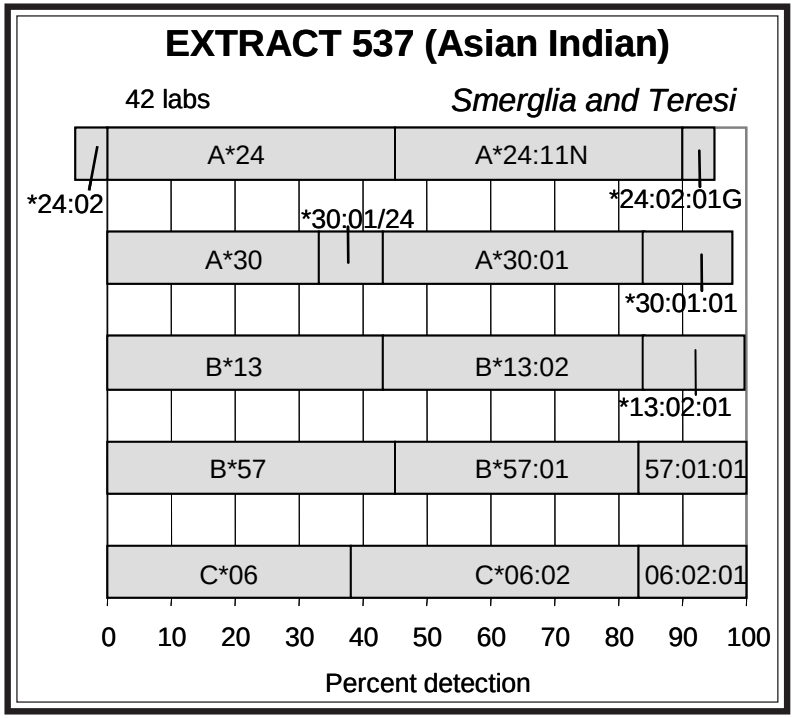
We wish to express our gratitude to **Alan Smerglia and Gary Teresi, Cleveland Clinic Foundation,** for sharing unusual cells to study in our exchanges.

Extract 537. This cell with the rare A*24:11N from an Asian Indian individual was previously typed as cell 1229 in 2005. Both serologic and molecular-based results were analyzed in this previous typing. In describing the sequence of A*24:11N, Magor et al. (1) said "The only difference between the A*24 allele from BM2046 (named A*2411N) and A*2402 is insertion of an additional C within the run of seven Cs at the start of exon 4…As a result of the nucleotide in A*2411N, the reading frame is changed at this point and then terminates at a nonsense codon near the 5' end of exon 4."

The following table indicates the improved detection and standardization of the rare null A*24 allele over the 7-year span:

	cell 1229 2005 43 labs	extract 537 2012 42 labs
A*24null	**5%**	**-**
A*24:11N	**24%**	**45%**
A*24:02:01G	-	**5%**
misassignment		
A*24:02	16%	5%
A*24:02:01	2%	-
A*24:02:01:01	2%	-

Interestingly, in the 2005 typing, A24 was assigned by 11% of the serology labs. One explanation may be that antisera used to define A9 or A24 may have been also reactive to Bw4 and therefore, the observed reactivity was actually to the presence of the B-locus antigens. Another explanation may be that serology labs reported their assignments based on their DNA findings.

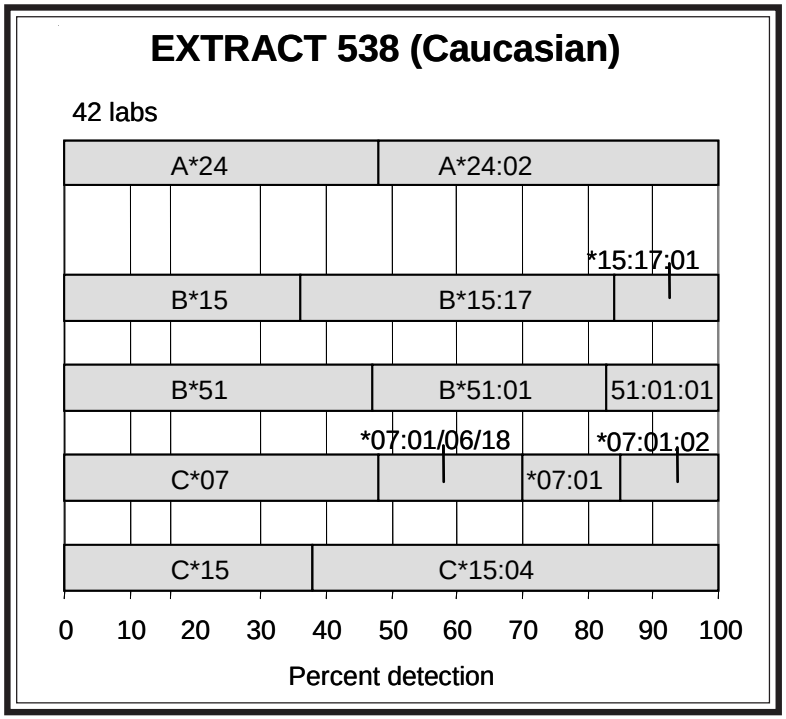


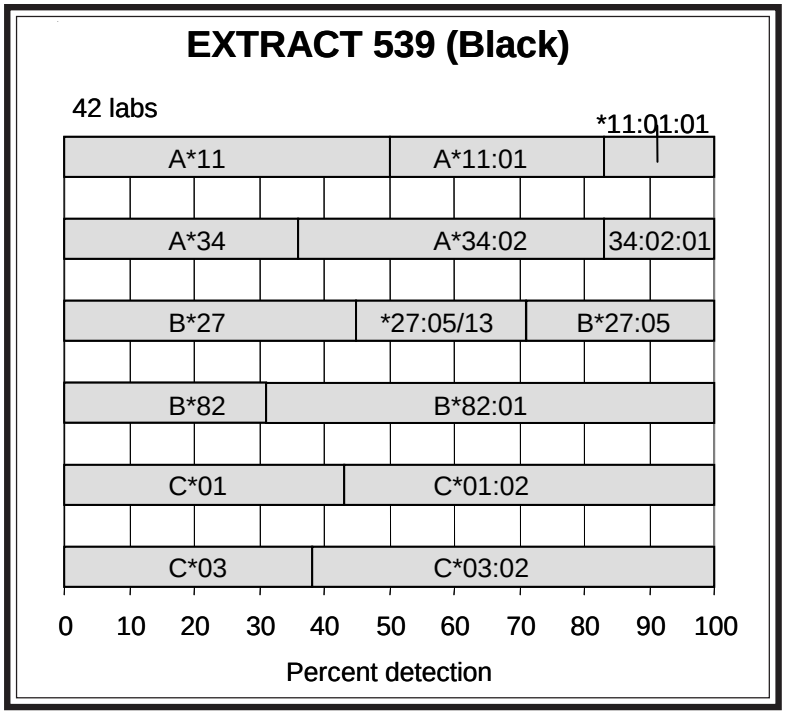
The second A-locus allele was A*30:01 (55%).

B*13:02 (57%) and B*57:01 (55%) were the B-locus types.

C*06:02 was reported by 62% as the sole C-locus allele.

B*13:02-C*06:02 and B*57:01-C*0602 are strong associations found in all populations. One likely haplotype may be A*30:01-B*13:02-C*06:02, commonly found in all populations except in African-Americans. Therefore, the rare A*24:11N may be on the same haplotype with B*57:01 and C*06:02.





Extract 538. This cell from a Caucasian donor was BRIP, studied in the major international workshops as IHW#9044.

The exchange results confirmed the typing as A*24:02, - , B*15:17, B*51:01, C*07:01, C*15:04, as posted on the IMGT/HLA web site.

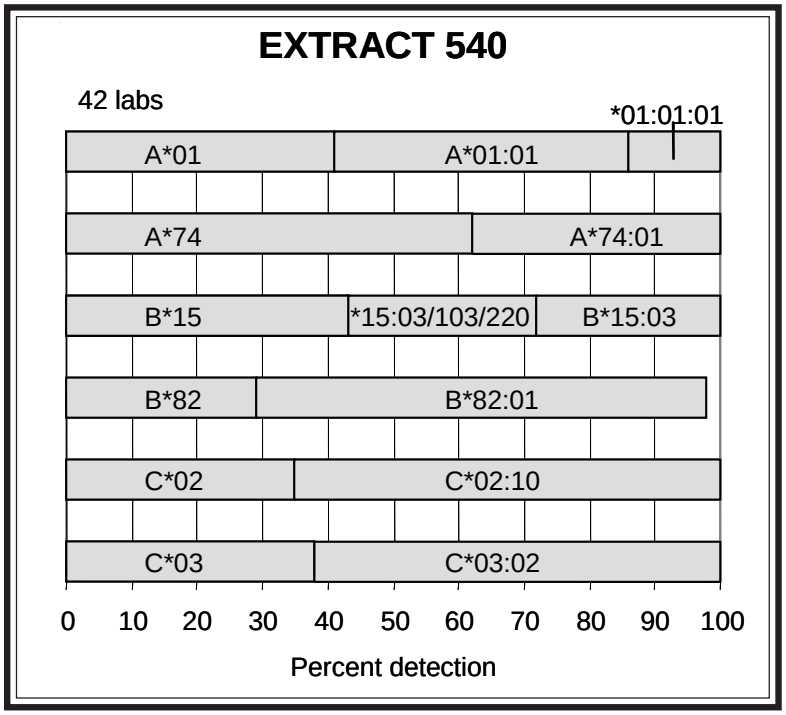
The NMDP Bioinformatics web site lists the frequencies of B*15:17-C*07:01g and B*51:01g-C*15:04 as 0.00267 and 0.00044, respectively, in Caucasians.

Extract 539. This cell from a Black individual was FH8, typed in the workshops as IHW#9382. It was previously typed as extract 407 (2007), as correctly identified by Clark.

In this present retyping, B*82:01 was assigned by 69%, the same detection level attained in the previous typing.

The common B*27:05 was reported by 29%, with another 26% assigning B*27:05/13.

C*01:02 (57%) and C*03:02 (62%) were the C-locus alleles.



Extract 540. This donor was previously typed as extract 400 in 2007, as correctly noted by Clark.

Alleles found frequently in Black populations, including A*74:01, B*15:03, B*82:01, and C*02:10, were present in this cell.

B*82:01 (69%), was well detected in this retyping. The second B-locus allele, B*15:03, was reported by 28%.

C*02:10 was assigned by 65%. The other C-locus allele was C*03:02 (60%).

B*15:03-C*02:10, a strong association found in Black individuals, and B*82:01-C*03:02, were likely present. B*82:01-C*03:02 was also detected in the other B*82:01 cell, extract 539, in this same study.

Cell Exchange

Cell 1449. A2403 was reported by 41% as the A24 variant in this Caucasian cell. Pollack and Tiercy observed shorter than normal anti-A24 activity, with Tiercy commenting that “only 1 of 3 A24-antisera” was positive. A*24:03 (53%) was confirmed by DNA.

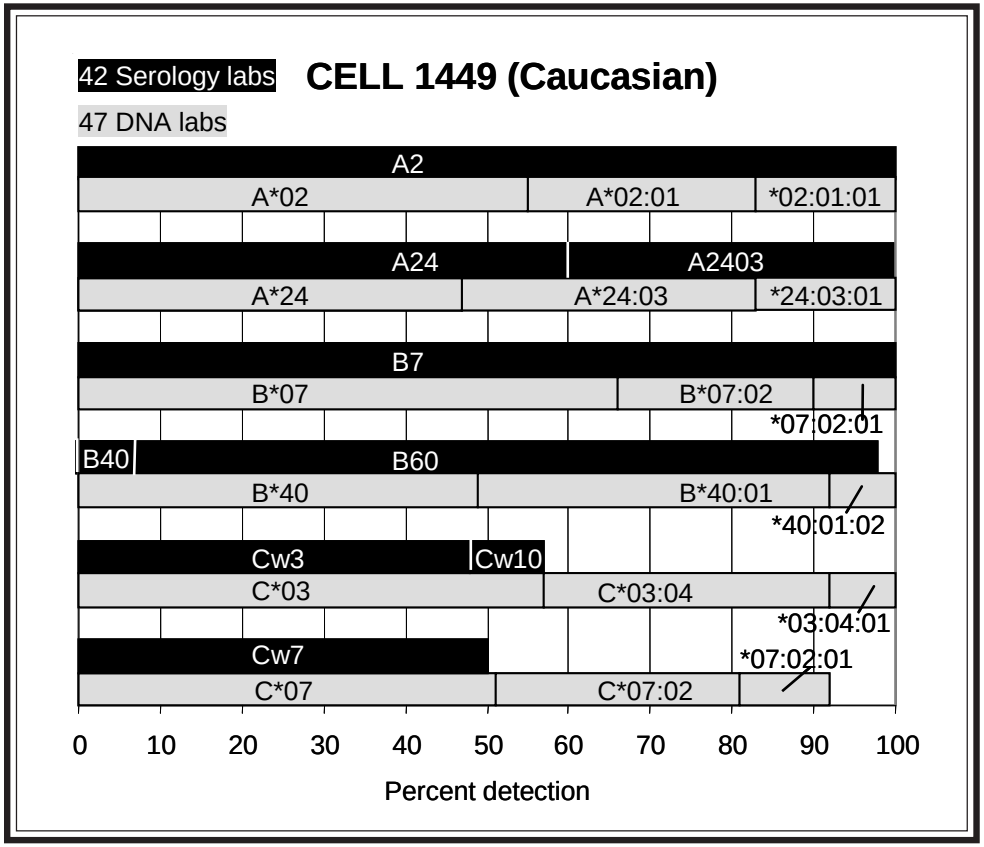
A2 was typed in complete consensus and 55% of DNA labs reported A*02:01 (*02:01:01).

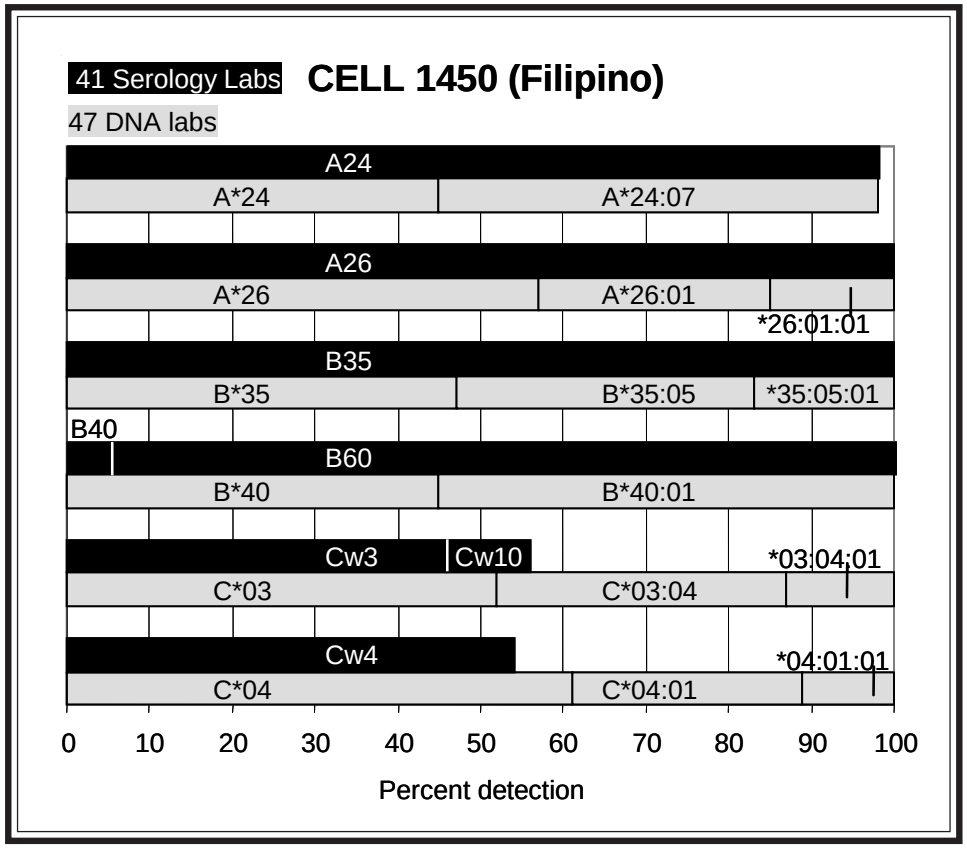
B7 (100%) was corroborated as B*07:02 (34%).

The second B-locus antigen was B60 (91%) and confirmed as B*40:01 (51%).

Cw3 (48%) and Cw7 (50%) were validated as C*03:04 (43%) and C*07:02 (41%), respectively.

B*07:02-C*07:02 and B*40:01-C*03:04 are commonly found associations in Caucasians, HF= 0.13782 and HF= 0.05538, respectively. An in-house family study revealed the haplotypes in this donor to be A*02:01-B*07:02-C*07:02 and A*24:03-B*40:01-C*03:04.





Cell 1450. This cell from a Filipino donor was typed as cell 1416 (2010), as correctly identified by Claas, Lopez-Cepero, Mah, Pancoska, and Tiercy.

In this present retyping, A24 (98%) and A26 (100%) were well typed and confirmed as A*24:07 (53%) and A*26:01 (43%), respectively. Tiercy noted short anti-A24 reactivity.

B35 (100%) and B60 (95%) were the B-locus antigens, validated as B*35:05 (53%) and B*40:01 (55%), respectively. Askar along with Tiercy noted the reactivity pattern of this cell as being that of a short B35.

Cw3 (46%) was reported by nearly half of the labs and was corroborated as C*03:04 (49%). The second C-locus type was Cw4 (54%) and confirmed as C*04:01 (39%).

The probable haplotypes in this cell were A*24:07-B*35:05-C*04:01 and A*26:01-B*40:01-C*03:04. A*24:07-B*35:05-C*04:01 is the 27th most commonly found haplotype in Asian Americans, with HF=0.00695. A number of Filipino cells with A*24:07 and B*35:05 have been studied in the Cell Exchange over the years.

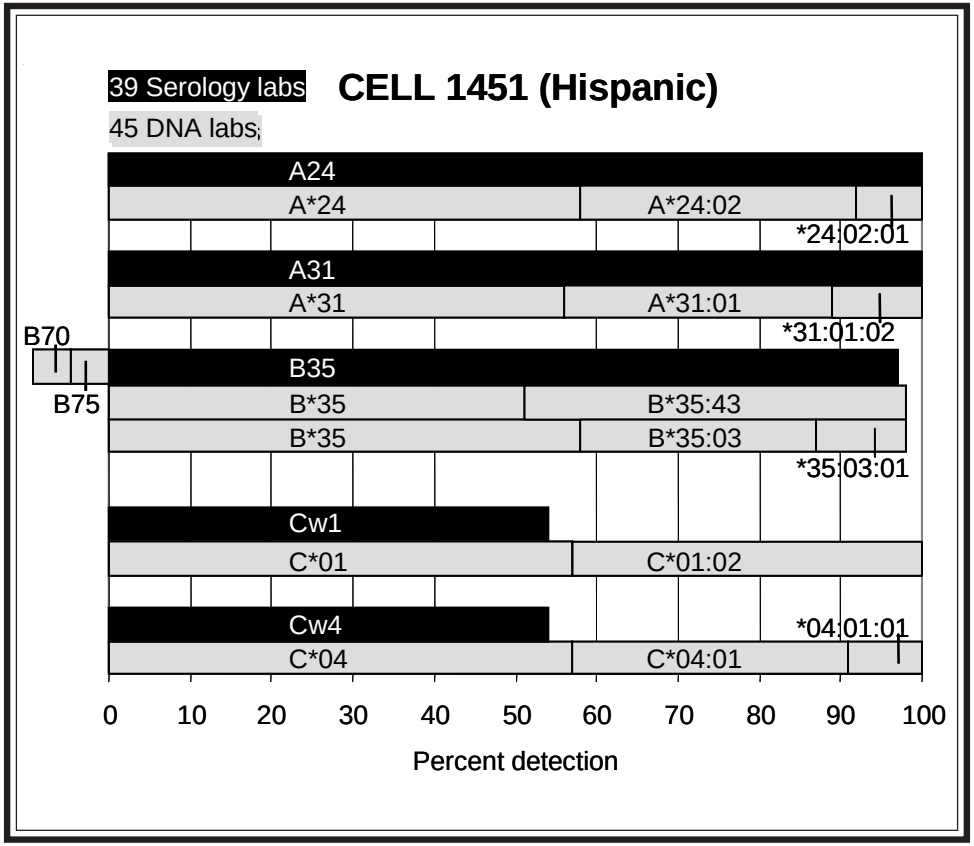
Cell 1451. This Hispanic cell was previously studied as cell 1414 in 2010, as correctly noted by Class, Kvam, Lopez-Cepero, and Pancoska.

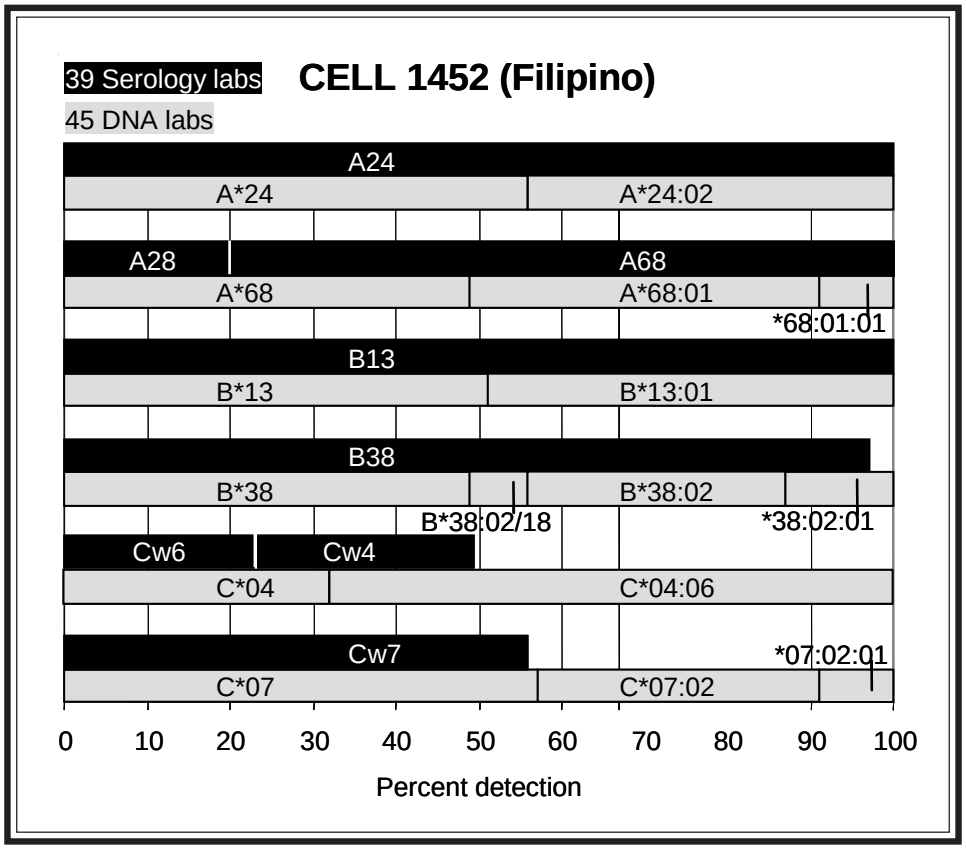
A24 and A31 were typed in complete consensus and confirmed as A*24:02 (42%) and A*31:01 (44%), respectively.

Two different B35 alleles were present in this cell, B*35:03 (40%) and B*35:43 (47%). Kvam observed that serologically, this cell "is still reacting with B14, B46, B17, B70 antiserum that routinely is non reactive with B35 cells." Additionally, Pollack noted that this cell was either homozygous for B35 or had both B35 and B75 due to observed reactivity to anti-B75 sera.

Cw1 and Cw4 were both typed by 54% and validated as C*01:02 (43%) and C*04:01(43%), respectively.

B*35:03-C*04:01(HF=0.01028) and B*35:43-C*01:02 (0.00778) are strong associations found in U.S. Hispanics. B*35:43-C*01:02 was detected in the previous four B*35:43 donors (cells 983, 1352, 1380, 1419) typed in the Cell Exchange.





Cell 1452. The rare C*04:06 was observed in this cell from a Filipino donor. C*04:06 has only been studied one other time in the Cell Exchange in another Filipino cell, cell 1319 (also typed as cells 887, 1005, 1261). In this study, C*04:06 was typed by 68%. Serology labs were split in their reporting of the expression of this allele, with 26% of the labs assigning Cw4 and 23% reporting Cw6.

Cw7 (56%) was the second C-locus antigen, established by the DNA labs as C*07:02 (43%).

A24 (100%) and A68 (80%) were well typed, confirmed as A*24:02 (44%) and A*68:01 (51%), respectively.

B13 (100%) and B38 (97%) were the B-locus antigens and were corroborated as B*13:01 (49%) and B*38:02 (44%), respectively.

The probable associations in this cell were B*13:01-C*04:06 (HF=0.00114) and B*38:02-C*07:02 (HF=0.03576). Both associations have only been observed in Asian populations. B*38:02-C*07:02 is the 4th most commonly found B-C loci association in U.S. Asians.

References

1. Magor KE, Taylor EJ, Shen SY, et al. Natural inactivation of a common HLA allele (A*2402) has occurred on at least three separate occasions. J Immunol 1997; 158:5242.

NEXT MAILING DATE: April 4, 2012

Marie Lau, Arlene Locke, J. Michael Cecka, and Elaine F. Reed

	INVESTIGATOR	DNA EXTRACT #537 (Asian Indian)						
CTR	NAME	A1	A2	B1	B2	C1	C2	method
5488	Adams,Sharon	*24:11N	*30:01:01	*13:02:01	*57:01:01	*06:02:01		
4691	Ajlan,Abdula	*24	*30	*13	*57	*06	*06	SSO
2332	Al-Awwami,Mo	*24	*30	*13	*57	*06		SSP
5133	Baker,Judy	*24	*30	*13	*57	*06		SSP
4345	Blasczyk,Rai	*24:02:01G	*30:01P	*13:02P	*57:01P	*06:02:01G		PCR-SBT
785	Chan,Soh Ha	*24:02/09N/11N/40N+	*30:01/24	*13:02	*57:01/29	*06:02		SBT
9916	Charlton,Ron	*24:11N	*30:01:01	*13:02:01	*57:01:01	*06:02:01:01		SSP,SBT
3224	Chen,Dongfen	*24:11N	*30:01	*13:02	*57:01	*06:02		SBT
8021	Clark,Brenda	*24:02/03/07+	*30:01-02:02/02:04+	*13:01-03/06+	*57:01-04/06+	*06:02-07+		PCR-SSP
1108	Clark,Traci	*24	*30	*13	*57	*06	*06	RVSSOP
5219	Daniel,Dolly	*24	*30	*13	*57			PCR-SSP,SSOP
5323	Dhaliwal,J.S	*24		*13	*57	*06		PCR-SSP
5891	Du,Keming	*24:11N	*30:01	*13:02	*57:01	*06:02	*06:02	PCR-SBT
3766	Dunn,Paul	*24	*30	*13	*57	*06		PCR-SSOP
3135	Enczmann,J.	*24:11N	*30:01	*13:02	*57:01	*06:02		SSO,SBT,SSP
762	Fischer&Mayr	*24:02/09N/11N/40N+	*30:01/24	*13:02/38	*57:01/29	*06:02		SSO,SSP,SBT
4079	Fort,Marylis	*24	*30	*13	*57	*06		RVSSO
8022	Hedlund,Anna	*24:11N	*30:01	*13:02	*57:01	*06:02		SSP
1461	Hidajat,Mela	*24:11N	*30:01	*13:02	*57:01	*06:02		SSO,SSP,SBT
615	Holdsworth,R	*24:02:01G	*30:01:01G	*13:02:01G	*57:01:01G	*06:02:01G		SBT
745	Holman,Richa	*24:11N	*30:01	*13:02:01	*57:01:01	*06:02:01		SSO,SSP,SBT
2344	Hurley&Hartz	*24:02:01:01+	*30:01:01/01:02/24	*13:02:01+	*57:01:01/01:11+	*06:02:01:01+	*06:02:01:01+	SBT
794	Jaatinen,Tai	*24:11N	*30:01	*13:02	*57:01	*06:02		SBT,SSO,SSP
13	Kapoor/Park	*24:11N	*30:01	*13:02	*57:01	*06:02		SSP
797	Kato,Shunich	*24:02	*30:01	*13:02	*57:01	*06:02		SSO,SBT
2847	Kihara,Masaa	*24	*30	*13	*57	*06		RSSO
1694	Kissel&Hess	*24	*30	*13	*57	*06		
87	Land,Geoff	*24:11N	*30:01	*13:02	*57:01	*06:02	*06:02	SBT,SSP,SSO
278	Lee,Jar-How	*24:11N	*30:01	*13:02	*57:01	*06:02		SSP,RSSOP
640	Lee,Kyung Wh	*24:11N	*30:01	*13:02	*57:01	*06:02		PCR-SBT
5096	Lee,Sun-Ah	*24	*30	*13	*57			SSO
8042	Muncher,Lior	*24:11N	*30:01	*13:02	*57:01	*06:02		
9001	Muncher_LR	*24	*30	*13	*57	*06		
3966	Permpikul&Ve	*24	*30	*13	*57	*06		PCR-SSP
2400	Phelan,Donna	*24:11N	*30:01	*13:02	*57:01	*06:02		RSSO,SBT,SSP
3753	Reed,Elaine	*24:11N	*30:01	*13:02	*57:01	*06:02	*06:02	SBT
3798	Reinsmoen,N	*24:11N	*30:01:01	*13:02:01	*57:01:01	*06:02:01		PCR-SSO,SBT
4251	Schiller,J	*24:11N	*30:01	*13:02	*57:01	*06:02	*06:02	PCR-RSSO,SBT
3545	Scornik,Juan	*24:02/02L	*30:01	*13:02	*57:01	*06:02		SBT,SSOP
8068	Shanmugam,He	*24	*30	*13	*57	*06	*06	PCR-SSP
4021	Trachtenberg	*24	*30	*13	*57	*06		SSO
5462	Turner,E.V.	*24:11N	*30:01:01	*13:02:01	*57:01:01	*06:02:01		SEQ,SSO

INVESTIGATOR	DNA EXTRACT #538 (Caucasian)						
CTR NAME	A1		B1	B2	C1	C2	method
5488 Adams,Sharon	*24:02		*15:17:01	*51:01:01	*07:01/06/18	*15:04	
4691 Ajlan,Abdula	*24	*24	*15	*51	*07	*15	SSO
2332 Al-Awwami,Mo	*24		*15	*51	*07	*15	SSP
5133 Baker,Judy	*24		*15(B63)	*51	*07	*15	SSP
4345 Blasczyk,Rai	*24:02:01G		*15:17P	*51:01:01G	*07:01P	*15:04	PCR-SBT
785 Chan,Soh Ha	*24:02/09N/11N+		*15:17	*51:01/11N/30/32+	*07:01/06/18/52	*15:04	SBT
9916 Charlton,Ron	*24:02		*15:17:01	*51:01:01	*07:01:02	*15:04	SSP,SBT
3224 Chen,Dongfen	*24:02		*15:17	*51:01	*07	*15:04	SBT
8021 Clark,Brenda	*24:02+		*15:17	*51:01:01-01:03+	*07:01/06/07+	*15:02-06+	PCR-SSP
1108 Clark,Traci	*24	*24	*15	*51	*07	*15	RVSSOP
5219 Daniel,Dolly	*24	*24	*15	*51			PCR-SSP,SSOP
5323 Dhaliwal,J.S	*24		*15(B63)	*51	*07	*15	PCR-SSP
5891 Du,Keming	*24:02	*24:02	*15:17	*51:01	*07:01/06/18	*15:04	PCR-SBT
3766 Dunn,Paul	*24		*15:17/162/168+	*51	*07	*15	PCR-SSOP
3135 Enczmann,J.	*24:02		*15:17	*51:01	*07:01/06/18	*15:04	SSO,SBT,SSP
762 Fischer&Mayr	*24:02/09N/11N+		*15:17	*51:01/11N/30/32+	*07:01/06/18/52	*15:04	SSO,SSP,SBT
4079 Fort,Marylis	*24		*15	*51	*07	*15	RVSSO
8022 Hedlund,Anna	*24:02		*15:17	*51:01	*07:01	*15:04	SSP
1461 Hidajat,Mela	*24:02		*15:17	*51:01	*07:01	*15:04	SSO,SSP,SBT
615 Holdsworth,R	*24:02:01G		*15:17:01G	*51:01:01G	*07:01:01G	*15:04	SBT
745 Holman,Richa	*24:02		*15:17	*51:01:01	*07:01:02	*15:04	SSO,SSP,SBT
2344 Hurley&Hartz	*24:02:01:01+	*24:02:01:01+	*15:17:01:01+	*51:01:01/01:05+	*07:01:01/01:02+	*15:04	SBT
794 Jaatinen,Tai	*24:02		*15:17	*51:01	*07:01/18	*15:04	SBT,SSO,SSP
13 Kapoor/Park	*24:02		*15:17	*51:01	*07:01	*15:04	SSP
797 Kato,Shunich	*24:02		*15:17	*51:01	*07:01/06/18	*15:04	SSO,SBT
2847 Kihara,Masaa	*24		*15	*51	*07	*15	RSSO
1694 Kissel&Hess	*24		*15	*51	*07	*15	
87 Land,Geoff	*24:02	*24:02	*15:17	*51:01	*07:01	*15:04	SBT,SSP,SSO
278 Lee,Jar-How	*24:02/21/98+		*15:17/162/168+	*51:01/96/105	*0701/91/103/104N+	*15:04/09/30	SSP,RSSOP
640 Lee,Kyung Wh	*24:02		*15:17	*51:01	*07:01	*15:04	PCR-SBT
5096 Lee,Sun-Ah	*24	*24	*15	*51			SSO
8042 Muncher,Lior	*24:02		*15:17	*51:01	*07:01	*15:04	
9001 Muncher_LR	*24		*15	*51	*07	*15	
3966 Permpikul&Ve	*24		*15:17	*51	*07	*15	PCR-SSP
2400 Phelan,Donna	*24:02		*15:17	*51:01	*07:01/06/18	*15:04	RSSO,SBT,SSP
3753 Reed,Elaine	*24:02	*24:02	*15:17	*51:01	*07:01/06/18	*15:04	SBT
3798 Reinsmoen,N	*24:02:01/01L		*15:17:01	*51:01:01	*07:01/06/18	*15:04	PCR-SSO,SBT
4251 Schiller,J	*24:02P	*24:02P	*15:17	*51:01	*07:01:01G	*15:04	PCR-RSSO,SBT
3545 Scornik,Juan	*24:02/02L		*15:17	*51:01	*07:01/06/18	*15:04	SBT,SSOP
8068 Shanmugam,He	*24	*24	*15	*51	*07	*15	PCR-SSP
4021 Trachtenberg	*24		*15	*51	*07	*15	SSO
5462 Turner,E.V.	*24:02P		*15:17:01G	*51:01:01	*07:01P	*15:04	SEQ,SSO

	INVESTIGATOR	DNA EXTRACT #539 (Black)						
CTR	NAME	A1	A2	B1	B2	C1	C2	method
5488	Adams,Sharon	*11:01:01	*34:02:01	*27:05/13	*82:01	*01:02	*03:02	
4691	Ajlan,Abdula	*11	*34	*27	*82	*01	*03	SSO
2332	Al-Awwami,Mo	*11	*34	*27	*82	*01	*03	SSP
5133	Baker,Judy	*11	*34	*27	*82	*01	*03(Cw10)	SSP
4345	Blasczyk,Rai	*11:01:01G	*34:02:01	*27:05P	*82:01	*01:02P	*03:02P	PCR-SBT
785	Chan,Soh Ha	*11:01/21N/32	*34:02	*27:05/13	*82:01	*01:02/11/25	*03:02	SBT
9916	Charlton,Ron	*11:01:01	*34:02:01	*27:05:02	*82:01	*01:02	*03:02	SSP,SBT
3224	Chen,Dongfen	*11:01	*34:02	*27:05	*82:01	*01:02	*03:02	SBT
8021	Clark,Brenda	*11:01/02/05-07+	*34:02-04+	*27:01/02/05+	*82:01/02	*01:02/03/06+	*03:02/04:01+	PCR-SSP
1108	Clark,Traci	*11	*34	*27	*82	*01	*03	RVSSOP
5219	Daniel,Dolly	*11	*34	*27	*82			PCR-SSP,SSOP
5323	Dhaliwal,J.S	*11	*34	*27	*82	*01	*03	PCR-SSP
5891	Du,Keming	*11:01	*34:02	*27:05/13	*82:01	*01:02	*03:02	PCR-SBT
3766	Dunn,Paul	*11	*34:02/04/07/09	*27	*82:01	*01	*03	PCR-SSOP
3135	Enczmann,J.	*11:01	*34:02	*27:05	*82:01	*01:02	*03:02	SSO,SSP,SBT
762	Fischer&Mayr	*11:01/21N	*34:02	*27:05/13	*82:01	*01:02/25	*03:02	SSO,SSP,SBT
4079	Fort,Marylis	*11:01/12/81-83+	*34:02/04/07	*27:05/55/74+	*82:01	*01:02/38/40+	*03:02/108+	RVSSO,SSP
8022	Hedlund,Anna	*11:01/10/12/30	*34:02	*27:05/55	*82:01	*01:02	*03:02	SSP
1461	Hidajat,Mela	*11:01	*34:02	*27:05	*82:01	*01:02	*03:02	SSO,SSP,SBT
615	Holdsworth,R	*11:01:01G	*34:02	*27:05:02G	*82:01	*01:02:01G	*03:02:01G	SBT
745	Holman,Richa	*11:01:01	*34:02:01	*27:05	*82:01	*01:02	*03:02	SSO,SSP,SBT
2344	Hurley&Hartz	*11:01:01/21N/69N+	*34:02:01	*27:05:02+	*82:01	*01:02:01+	*03:02:01+	SBT
794	Jaatinen,Tai	*11:01	*34:02	*27:05/13	*82:01	*01:02	*03:02	SBT,SSO,SSP
13	Kapoor/Park	*11:01	*34:02	*27:05	*82:01	*01:02	*03:02	SSP
797	Kato,Shunich	*11:01	*34:02	*27:05/13	*82:01	*01:02	*03:02	SSO,SBT
2847	Kihara,Masaa	*11	*34	*27	*82	*01	*03	RSSO
1694	Kissel&Hess	*11	*34	*27	*82	*01	*03	
87	Land,Geoff	*11:01	*34:02	*27:05	*82:01	*01:02	*03:02	SBT,SSP,SSO
278	Lee,Jar-How	*11:01	*34:02	*27:05	*82:01	*01:02	*03:02/84/108+	SSP,RSSOP
640	Lee,Kyung Wh	*11:01	*34:02	*27:05/13	*82:01	*01:02	*03:02	PCR-SBT
5096	Lee,Sun-Ah	*11	*34	*27	*82			SSO
8042	Muncher,Lior	*11:01/12	*34:02	*27:05	*82:01	*01:02	*03:02	
9001	Muncher_LR	*11	*34	*27	*82	*01	*03	
3966	Permpikul&Ve	*11	*34	*27	*82	*01	*03	PCR-SSP
2400	Phelan,Donna	*11:01	*34:02	*27:05/13	*82:01	*01:02	*03:02	RSSO,SBT,SSP
3753	Reed,Elaine	*11:01	*34:02	*27:05/13	*82:01	*01:02	*03:02	SBT
3798	Reinsmoen,N	*11:01:01	*34:02:01	*27:05/13	*82:01	*01:02	*03:02	PCR-SSO,SBT
4251	Schiller,J	*11:01	*34:02	*27:05:02G	*82:01	*01:02	*03:02	PCR-RSSO,SBT
3545	Scornik,Juan	*11:01	*34:02	*27:05/13	*82:01	*01:02	*03:02	SSOP,SBT
8068	Shanmugam,He	*11	*34	*27	*82	*01	*03	PCR-SSP
4021	Trachtenberg	*11	*34:02	*27	*82:01	*01	*03	SSO
5462	Turner,E.V.	*11:01:01	*34:02:01	*27:05P/13	*82:01	*01:02:01	*03:02:01G	SEQ,SSO

	INVESTIGATOR	DNA EXTRACT #540						
CTR	NAME	A1	A2	B1	B2	C1	C2	method
5488	Adams,Sharon	*01:01:01	*74:01/02:01	*15:03:01/103	*82:01	*02:10	*03:02	
4691	Ajlan,Abdula	*01	*74	*15	*82	*02	*03	SSO
2332	Al-Awwami,Mo	*01	*74	*15	*82	*02	*03	SSP
5133	Baker,Judy	*01	*74	*15(B72)	*82	*02	*03(Cw10)	SSP
4345	Blasczyk,Rai	*01:01:01G	*74:01P	*15:03P	*82:01	*02:10	*03:02P	PCR-SBT
785	Chan,Soh Ha	*01:01/04N+	*74:01/02	*15:03	*82:01	*02:10	*03:02	SBT
9916	Charlton,Ron	*01:01:01:01	*74:01	*15:03:01/220	*82:01	*02:10	*03:02	SSP,SBT
3224	Chen,Dongfen	*01:01	*74:01	*15	*82:01	*02:10	*03:02	SBT
8021	Clark,Brenda	*01:01/02/04N+	*74:01-05+	*15:03/54/61+	*82:01/02	*02:02/04+	*03:02/04:01+	PCR-SSP
1108	Clark,Traci	*01	*74	*15	*82	*02	*03	RVSSOP
5219	Daniel,Dolly	*01	*74	*15	*82			PCR-SSP,SSOP
5323	Dhaliwal,J.S	*01	*74	*15(B72)	*82	*02	*03	PCR-SSP
5891	Du,Keming	*01:01	*74:01/02	*15:03/103/220	*82:01	*02:10	*03:02	PCR-SBT
3766	Dunn,Paul	*01	*74	*15:03/103/132+	*82:01	*02	*03	PCR-SSOP
3135	Enczmann,J.	*01:01	*74:01	*15:03	*82:01	*02:10	*03:02	SSO,SSP,SBT
762	Fischer&Mayr	*01:01/04N+	*74:01	*15:03	*82:01	*02:10	*03:02	SSO,SSP,SBT
4079	Fort,Marylis	*01:01/45/67+	*74:01/02/09+	*15:03/103/132+	*82:01	*02:10	*03:02/108/110+	RVSSO,SSP
8022	Hedlund,Anna	*01:01	*74:01	*15:03	*82:01	*02:10	*03:02	SSP
1461	Hidajat,Mela	*01:01	*74:01	*15:03	*82:01	*02:10	*03:02	SSO,SSP,SBT
615	Holdsworth,R	*01:01:01G	*74:01:01G	*15:03:01G	*82:01	*02:10	*03:02:01G	SBT
745	Holman,Richa	*01:01:01	*74:01	*15:03/220	*82:01	*02:10	*03:02:02	SSO,SSP,SBT
2344	Hurley&Hartz	*01:01:01:01+	*74:01/02:01:01+	*15:03:01/103+	*82:01	*02:10	*03:02:01+	SBT
794	Jaatinen,Tai	*01:01	*74:01/02	*15:03/103/220	*82:01	*02:10	*03:02	SBT,SSO,SSP
13	Kapoor/Park	*01:01/45	*74:01	*15:03	*82:01	*02:10	*03:02	SSP
797	Kato,Shunich	*01:01/01N	*74:01/02	*15:03/103	*82:01	*02:10	*03:02	SSO,SBT
2847	Kihara,Masaa	*01	*74	*15	*82	*02	*03	RSSO
1694	Kissel&Hess	*01	*74	*15	*82	*02	*03	
87	Land,Geoff	*01:01	*74:01	*15:03	*82:01	*02:10	*03:02	SBT,SSP,SSO
278	Lee,Jar-How	*01:01/52N+	*74:01	*15:03/103/173	*82:01	*02:02/10	*03:02/84/108	SSP,RSSOP
640	Lee,Kyung Wh	*01:01	*74:01/02	*15:03/103/220	*82:01	*02:10	*03:02	PCR-SBT
5096	Lee,Sun-Ah	*01	*74	*15	*82			SSO
8042	Muncher,Lior	*01:01	*74:01	*15:03	*82:01	*02:10	*03:02	
9001	Muncher_LR	*01	*74	*15	*82	*02	*03	
3966	Permpikul&Ve	*01	*74	*15:03	*82	*02	*03	PCR-SSP
2400	Phelan,Donna	*01:01/01N	*74:01	*15:03/220	*82:01	*02:10	*03:02	RSSO,SBT,SSP
3753	Reed,Elaine	*01:01	*74:01/02	*15:03/103/220	*82:01	*02:10	*03:02	SBT
3798	Reinsmoen,N	*01:01:01/01N	*74:01/02	*15:03:01/103	*82:01	*02:10	*03:02	PCR-SSO,SBT
4251	Schiller,J	*01:01:01G	*74:01:01G	*15:03:01G	*82:01	*02:10	*03:02	PCR-RSSO,SBT
3545	Scornik,Juan	*01:01/01N	*74:01/02	*15:03/103	*82:01	*02:10	*03:02	SSOP,SBT
8068	Shanmugam,He	*01	*74	*15	*56	*02	*03	PCR-SSP
4021	Trachtenberg	*01	*74	*15	*82:01	*02	*03	SSO
5462	Turner,E.V.	*01:01:01:01+	*74:01P	*15:03/103/220	*82:01	*02:10	*03:02:01G	SEQ,SSO

SUMMARY

Extract 537 (Asian Indian)

42 labs

A*24	45%
A*24:02	5%
A*24:11N	45%
A*24:02:01G	5%
A*24	100% TOTAL
A*30	33%
A*30:01/24	10%
A*30:01	41%
A*30:01:01	10%
A*30:01P	2%
A*30:01:01G	2%
A*30	98% TOTAL

43 labs

B*13	43%
B*13:02	41%
B*13:02:01	12%
B*13:02P	2%
B*13:02:01G	2%
B*13	100% TOTAL
B*57	45%
B*57:01	38%
B*57:01:01	12%
B*57:01P	2%
B*57:01:01G	3%
B*57	100% TOTAL

40 labs

C*06	38%
C*06:02	45%
C*06:02:01	10%
C*06:02:01:01	2%
C*06:02:01G	5%
C*06	100% TOTAL

Extract 538 (Caucasian)

42 labs

A*24	48%
A*24:02	43%
A*24:02P	4%
A*24:02:01G	5%
A*24	100% TOTAL

42 labs

B*15	36%
B*15:17	48%
B*15:17:01	9%
B*15:17P	2%
B*15:17:01G	5%
B*15	100% TOTAL
B*51	47%
B*51:01	36%
B*51:01:01	12%
B*51:01:01G	5%
B*51	100% TOTAL

40 labs

C*07	48%
C*07:01/06/18	20%
C*07:01/18	2%
C*07:01	15%
C*07:01:02	5%
C*07:01P	5%
C*07:01:01G	5%
C*07	100% TOTAL
C*15	38%
C*15:04	62%
C*15	100% TOTAL

Extract 539 (Black)

42 labs

A*11	50%
A*11:01	33%
A*11:01:01	12%
A*11:01:01G	5%
A*11	100% TOTAL
A*34	36%
A*34:02	47%
A*34:02:01	17%
A*34	100% TOTAL

42 labs

B*27	45%
B*27:05/13	26%
B*27:05	19%
B*27:05:02	3%
B*27:05P	2%
B*27:05:02G	5%
B*27	100% TOTAL
B*82	31%
B*82:01	69%
B*82	100% TOTAL

40 labs

C*01	43%
C*01:02	50%
C*01:02:01	3%
C*01:02P	2%
C*01:02:01G	2%
C*01	100% TOTAL
C*03	38%
C*03:02	55%
C*03:02P	2%
C*03:02:01G	5%
C*03	100% TOTAL

Extract 540

42 labs

A*01	41%
A*01:01	45%
A*01:01:01	5%
A*01:01:01:01	2%
A*01:01:01G	7%
A*01	100% TOTAL
A*74	62%
A*74:01	28%
A*74:01P	5%
A*74:01:01G	5%
A*74	100% TOTAL

42 labs

B*15	43%
B*15:03/103/220	12%
B*15:03/103	5%
B*15:03:01/103	5%
B*15:03/220	5%
B*15:03:01/220	2%
B*15:03	21%
B*15:03P	2%
B*15:03:01G	5%
B*15	100% TOTAL
B*82	29%
B*82:01	69%
B*82	98% TOTAL

40 labs

C*02	35%
C*02:10	65%
C*02	100% TOTAL
C*03	38%
C*03:02	52%
C*03:02:02	3%
C*03:02P	2%
C*03:02:01G	5%
C*03	100% TOTAL

	INVESTIGATOR	CELL NO.1449 (Caucasian)						
CTR	NAME	A1	A2	B1	B2	C1	C2	method
8070	Ahn,Jaeie	*02	*24	*07	*40:01	*03	*07	PCR-SSP
8075	Al-Baz,Nabe	*02	*24	*07	*40	*03	*07	SSO
16	Askar,Medhat	*02:01:01	*24:03:01	*07:02:01/61//+	*40:01//+	*03:04:01//+	*07:02:01/50//+	PCR-RSSOP,SBT
774	Cecka,J.Mich	*02	*24:03/33/125	*07:02/30/63+	*40	*03	*07	SSP
4492	Charron,D.	*02:01/01L/01Q/97	*24:03	*07:02/26/67N	*40:01	*03:04	*07:02	PCR-SSO
798	Claas,F.H.J.	*02:01:01	*24:03:01	*07:02:01	*40:01:02	*03:04:01	*07:02:01	SBT
3632	Colombe,Beth	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	SSOP,SSP
5130	Costeas,Paul	*02:01	*24:03	*07:02	*40:01	*03:04/47	*07:02	SSP
779	Daniel,Claud	*02	*24:03	*07	*40(B60)	*03:04(Cw10)	*07	PCR-SSP
8052	Del Pozo,Ana	*02	*24	*07	*40	*03	*07	PCR-SSO
3766	Dunn,Paul	*02	*24:03/23/33/75+	*07	*40	*03	*07	SSO,SSP
5214	Eckels/CPMC	*02	*24	*07	*40(B60)	*03(Cw10)	*07	SSOP
762	Fischer&Mayr	*02:01/01L/09/132+	*24:03/33	*07:02	*40:01	*03:04	*07:02/50/66/74	
792	Gandhi,Manis	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	SSO,SSP
8043	Gideoni,Osna	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	SSP
9002	Gideoni_LR	*02	*24	*07	*40	*03	*07	SSOP
810	Hamdi,Nuha	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	SSO
4269	Hanau,Daniel	*02:01:01:01/01:01:02L	*24:03:01	*07:02:01/61	*40:01:02	*03:04:01	*07:02:01	RVSSO,SBT
3808	Hogan,Patric	*02	*24	*07	*40	*03	*07	SSP
745	Holman,Richa	*02:01:01	*24:03:01	*07:02:01	*40:01	*03:04	*07:02	SSO,SSP,SBT
771	Israel,Shosh	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	PCR-SSP,SBT
9003	Israel_LR	*02	*24	*07	*40	*03	*07	PCR-SSO
859	Kamoun,Malek	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	
4337	Kim,Tai-Gyu	*02:01	*24:03/33	*07:02/44/49N+	*40:01/55/141+	*03:04/100/101+	*07:02/50/66/74+	SBT
168	Klein,Tirza	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	PCR-SSO,SSP
9000	Klein_LR	*02	*24	*07	*40	*03	*07	PCR-SSO
725	Lardy,N.M.	*02	*24	*07	*40	*03	*07	SSO,SSP
278	Lee,Jar-How	*02:01/97/132/134+	*24:03	*07:02/58/59+	*40:01/55/101+	*03:04/90/93+	*07:02/100/105+	SSP,RVSSOP
6649	Lim,Young Ae	*02	*24	*07	*40(B60)	*03	*07	SSP
274	Lo,Raymundo	*02	*24	*07	*40	*03	*07	SSO
731	Loewenthal,R	*02:01	*24:03:01	*07:02	*40:01	*03:04	*07:02	SBT,SSO
759	Lopez-Cepero	*02:01/07/09/15N/18+	*24:03/23/33/75	*07:02/10/21+	*40:01/22N/43+	*03:04/02/05+	*07:02/10/13+	RVSSO
23	Mah,Helen	*02:01/09/66	*24:03	*07:02/26	*40:01	*03:04	*07:02	SSO,SSP
8029	Mani,Rama	*02	*24	*07	*40			PCR-SSP
206	McAlack-Hana	*02	*24:03	*07	*40(B60)	*03(Cw10)	*07	RVSSOP
8001	Rao,Prakash	*02	*24	*07	*40:01	*03:02/04-10	*07	
3625	Rees,Tracey	*02:01	*24:03	*07	*40:01	*03	*07:02/66	PCR-SSP,SBT
5200	Reinke,Denni	*02	*24	*07	*40(B60)	*03(Cw10)	*07	SSP
3519	Renac,Virgi	*02:01	*24:03	*07:02	*40:01	*03:04	*07:02	SBT,P-SSP-C
1160	Rosen-Bronso	*02:01	*24:03	*07:02/61	*40:01	*03:04	*07:02	SBT,SSP
793	Rubocki,Ron	*02	*24	*07	*40(B60)	*03(Cw10)	*07	SSP
4251	Schiller,J	*02:01:01G	*24:03	*07:02:01G	*40:01	*03:04	*07:02:01G	PCR-RSSO,SBT
747	Tiercy,Jean-	*02:01:01G	*24:03:01	*07:02:01G	*40:01:01G	*03:04/105/106	*07:02/157/159+	SBT,SSO,SSP
5451	Tilanus,Marc	*02:01:01	*24:03:01	*07:02:01	*40:01	*03:04:01	*07:02:01	SBT
5462	Turner,E.V.	*02:01:01G	*24:03:01	*07:02:01/61	*40:01P	*03:04:01G	*07:02:01G	SEQ,SSO
5642	Varnavidou-N	*02	*24	*07	*40	*03	*07	PCR-SSP
3186	Watson,Narel	*02	*24	*07	*40:01/22N/43+	*03	*07	SSO

	INVESTIGATOR	CELL NO.1450 (Filipino)						
CTR	NAME	A1	A2	B1	B2	C1	C2	method
8070	Ahn,Jaeie	*24	*26	*35	*40:01	*03	*04	PCR-SSP
8075	Al-Baz,Nabe	*24	*26	*35	*40	*03	*04	SSO
16	Askar,Medhat	*24:07	*26:01:01	*35:05:01	*40:01	*03:04:01	*04:01:01/82	PCR-RSSOP,SBT
774	Cecka,J.Mich	*24:07/112/131	*26	*35:05/51/72/89+	*40	*03	*04	SSP
4492	Charron,D.	*24:07	*26:01/17	*35:05	*40:01	*03:04	*04:01	PCR-SSO
798	Claas,F.H.J.	*24:07	*26:01:01	*35:05:01	*40:01	*03:04:01	*04:01:01	SBT
3632	Colombe,Beth	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	SSOP,SSP
5130	Costeas,Paul	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01/84	SSP
779	Daniel,Claud	*24:07	*26	*35	*40(B60)	*03:04	*04	PCR-SSP
8052	Del Pozo,Ana	*24:07/112	*26	*35:05/89/97/114	*40	*03	*04	PCR-SSO
3766	Dunn,Paul	*24:07/112	*26	*35:05/89/97/114	*40	*03:04+	*04	SSO,SSP
5214	Eckels/CPMC	*24	*26	*35	*40(B60)	*03(Cw10)	*04	SSOP
762	Fischer&Mayr	*24:07	*26:01/24/26	*35:05	*40:01	*03:04	*04:01/09N/28/30+	
792	Gandhi,Manis	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	SSO,SSP
8043	Gideoni,Osna	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	SSP
9002	Gideoni_LR	*24	*26	*35	*40	*03	*04	SSOP
810	Hamdi,Nuha	*24:02	*26:01	*35:05	*40:01	*03:04	*04:01	SSO
4269	Hanau,Daniel	*24:07	*26:01	*35:05:01	*40:01	*03:04:01	*04:01/82/85	RVSSO,SBT
3808	Hogan,Patric	*24:07/19/108+	*26	*35	*40	*03	*04	SSP
745	Holman,Richa	*24:07	*26:01:01	*35:05:01	*40:01	*03:04:01	*04:01:01	SSO,SSP,SBT
771	Israel,Shosh	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	PCR-SSP,SBT
9003	Israel_LR	*24	*26	*35	*40	*03	*04	PCR-SSO
859	Kamoun,Malek	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	
4337	Kim,Tai-Gyu	*24:07	*26:01/24/26/56	*35:05	*40:01/55/141+	*03:04/100/101+	*04:01/09N/28/30+	SBT
168	Klein,Tirza	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	PCR-SSO,SSP
9000	Klein_LR	*24	*26	*35	*40	*03	*04	PCR-SSO
725	Lardy,N.M.	*24	*26	*35	*40	*03	*04	SSO,SSP
278	Lee,Jar-How	*24:07/112	*26:01/24/26/56	*35:05	*40:01	*03:04	*04:01	SSP,RVSSOP
6649	Lim,Young Ae	*24	*26	*35	*40(B60)	*03	*04	SSP
274	Lo,Raymundo	*24	*26	*35	*40	*03	*04	SSO
731	Loewenthal,R	*24:07	*26:01:01	*35:05:01	*40:01	*03	*04	SBT,SSO
759	Lopez-Cepero	*24:07	*26:01/10/15/17+	*35:05/89/97	*40:01/22N/43+	*03:04/06/07/09+	*04:01/04/05/07+	RVSSO
23	Mah,Helen	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	SSO,SSP
8029	Mani,Rama	*24	*26	*35	*40			PCR-SSP
206	McAlack-Hana	*24	*26	*35	*40(B60)	*03(Cw10)	*04	RVSSOP
8001	Rao,Prakash	*24	*26	*35	*40:01	*03:04/06-09	*04	
3625	Rees,Tracey	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	PCR-SSP,SBT
5200	Reinke,Denni	*24	*26	*35	*40(B60)	*03(Cw10)	*04	SSP
3519	Renac,Virgi	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	SBT
1160	Rosen-Bronso	*24:07	*26:01/13	*35:05	*40:01	*03:04/98	*04:01/82/85	SBT,SSP
793	Rubocki,Ron	*24	*26	*35	*40(B60)	*03(Cw10)	*04	SSP
4251	Schiller,J	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01P	PCR-RSSO,SBT
747	Tiercy,Jean-	*24:07	*26:01:01	*35:05:01	*40:01:01G	*03:04/105/106	*04:01	SBT,SSO,SSP
5451	Tilanus,Marc	*24:07	*26:01:01	*35:05:01	*40:01	*03:04:01	*04:01:01	SBT
5462	Turner,E.V.	*24:07	*26:01:01	*35:05:01	*40:01P	*03:04:01G	*04:01:01G	SEQ,SSO
5642	Varnavidou-N	*24	*26	*35	*40	*03	*04	PCR-SSP
3186	Watson,Narel	*24	*26	*35	*40:01/22N/43+	*03	*04	SSO

CTR	INVESTIGATOR NAME	CELL NO.1451 (Hispanic) A1	A2	B2	B1	C1	C2	method
8070	Ahn,Jaeie	*24	*31	*35	*35	*01	*04	PCR-SSP
8075	Al-Baz,Nabe	*24	*31	*35		*01	*04	SSO
16	Askar,Medhat	*24:02//*24:57	*31:01:02//*31:29	*35:03:01	*35:43:01	*01:02//*01:14//	*04:01/82//+	PCR-RSSOP,SBT
774	Cecka,J.Mich	*24	*31	*35	*35:43/67/79/86+	*01	*04	SSP
4492	Charron,D.	*24:02	*31:01	*35:03/98	*35:43	*01:02	*04:01	PCR-SSO
798	Claas,F.H.J.	*24:02	*31:01:02	*35:03:01	*35:43	*01:02:01	*04:01:01	SBT
3632	Colombe,Beth	*24:02	*31:01	*35:03	*35:43	*01:02	*04:01	SSOP,SSP
5130	Costeas,Paul	*24:02	*31:01	*35:03	*35:43	*01:02	*04:01	SSP
779	Daniel,Claud	*24	*31	*35	*35	*01	*04	PCR-SSP
8052	Del Pozo,Ana	*24	*31	*35	*35	*01	*04	PCR-SSO
3766	Dunn,Paul	*24	*31	*35:03+	*35:43/67/79/102+	*01	*04	SSO,SSP
5214	Eckels/CPMC	*24	*31	*35	*35	*01	*04	SSOP
762	Fischer&Mayr	*24:02/09N/11N+	*31:01/14N/23	*35:03	*35:43	*01	*04	
792	Gandhi,Manis	*24:02	*31:01	*35:03	*35:43	*01:02	*04:01	SSO,SSP
8043	Gideoni,Osna	*24:02	*31:01	*35:03	*35:43	*01:02	*04:01	SSP
9002	Gideoni_LR	*24	*31	*35		*01	*04	SSOP
810	Hamdi,Nuha	*24:02	*31:01	*35:03	*35:43	*01:02	*04:01	SSO
4269	Hanau,Daniel	NT						
3808	Hogan,Patric	*24	*31	*35	*35:43	*01	*04	SSP
745	Holman,Richa	*24:02	*31:01:02	*35:03:01	*35:43:01	*01:02	*04:01	SSO,SSP,SBT
771	Israel,Shosh	*24:02	*31:01	*35:03	*35:43	*01:02	*04:01	PCR-SSP,SBT
9003	Israel_LR	*24	*31	*35	*35	*01	*04	PCR-SSO
859	Kamoun,Malek	*24:02	*31:01	*35:03	*35:43	*01:02	*04:01	
4337	Kim,Tai-Gyu	*24:02/09N/11N+	*31:01/14N/23/46+	*35:03/70	*35:43/67/79	*01:02/25/44	*04:01/09N/28+	SBT
168	Klein,Tirza	*24:02	*31:01	*35:01	*35:43	*01:02	*04:01	PCR-SSO,SSP
9000	Klein_LR	*24	*31	*35	*35	*01	*04	PCR-SSO
725	Lardy,N.M.	*24	*31	*35		*01	*04	SSO,SSP
278	Lee,Jar-How	*24:02	*31:01	*35:03/70	*35:43/67/79/102	*01:02	*04:01	SSP,RVSSOP
6649	Lim,Young Ae	*24	*31	*35		*01	*04	SSP
274	Lo,Raymundo	*24	*31	*35	*35	*01	*04	SSO
731	Loewenthal,R	*24:02:01	*31:01:02	*35:03	*35:43	*01:02	*04:01	SBT,SSO
759	Lopez-Cepero	*24:02/09N/11N+	*31:01/09/12-14N+	*35:03/36/55+	*35:43/67/79	*01:02/03/07/08+	*04:01/05/07+	RVSSO
23	Mah,Helen	*24:02	*31:01	*35:03	*35:43	*01:02	*04:01	SSO,SSP
8029	Mani,Rama	*24	*31	*35				PCR-SSP
206	McAlack-Hana	*24	*31	*35	*35	*01	*04	RVSSOP
8001	Rao,Prakash	*24	*31	*35		*01	*04	
3625	Rees,Tracey	*24:02	*31:01	*35	*35	*01:02	*04:01	PCR-SSP,SBT
5200	Reinke,Denni	*24	*31	*35	*46	*01	*04	SSP
3519	Renac,Virgi	*24:02	*31:01	*35:03	*35:43	*01:02	*04:01	SBT
1160	Rosen-Bronso	*24:02/145	*31:01	*35:03	*35:43	*01	*04:01/82	SBT,SSP
793	Rubocki,Ron	*24	*31	*35		*01	*04	SSP
4251	Schiller,J	*24:02P	*31:01	*35:03	*35:43	*01:02	*04:01P	PCR-RSSO,SBT
747	Tiercy,Jean-	NT						
5451	Tilanus,Marc	*24:02:01	*31:01:02	*35:03:01	*35:43:01	*01:02	*04:01:01	SBT
5462	Turner,E.V.	*24:02P	*31:01:02	*35:03:01	*35:43:01	*01:02P	*04:01P	SEQ,SSO
5642	Varnavidou-N	*24	*31	*35		*01	*04	PCR-SSP
3186	Watson,Narel	*24	*31	*35		*01	*04	SSO

	INVESTIGATOR	CELL NO.1452 (Filipino)						
CTR	NAME	A1	A2	B1	B2	C1	C2	method
8070	Ahn,Jaeie	*24	*68	*13	*38	*04	*07	PCR-SSP
8075	Al-Baz,Nabe	*24	*68	*13	*38	*04	*07	SSO
16	Askar,Medhat	*24:02	*68:01:01	*13:01	*38:02:01	*04:06	*07:02:01/50	PCR-RSSOP,SBT
774	Cecka,J.Mich	*24	*68	*13	*38	*04:06	*07	SSP
4492	Charron,D.	*24:02	*68:01	*13:01	*38:02	*04:06	*07:02	PCR-SSO
798	Claas,F.H.J.	*24:02	*68:01:01:01	*13:01	*38:02:01	*04:06	*07:02:01	SBT
3632	Colombe,Beth	*24:02	*68:01	*13:01	*38:02	*04:06	*07:02	SSOP,SSP
5130	Costeas,Paul	*24:02	*68:01	*13:01	*38:02	*04:06	*07:02/84	SSP
779	Daniel,Claud	*24	*68	*13	*38	*04	*07	PCR-SSP
8052	Del Pozo,Ana	*24	*68	*13	*38:02/15/18/23	*04:06	*07	PCR-SSO
3766	Dunn,Paul	*24	*68	*13	*38:02/15/18/23	*04:06	*07:02	SSO,SSP
5214	Eckels/CPMC	*24	*68	*13	*38	*04:06	*07	SSOP
762	Fischer&Mayr	*24:02/09N/11N/40N+	*68:01	*13:01	*38:02/18	*04:06	*07:02/50/66/74	
792	Gandhi,Manis	*24:02	*68:01	*13:01	*38:02	*04:06	*07:02	SSO,SSP
8043	Gideoni,Osna	*24:02	*68:01	*13:01	*38:02	*04:06	*07:02	SSP
9002	Gideoni_LR	*24	*68	*13	*38	*04	*07	SSOP
810	Hamdi,Nuha	*24:02	*68:01	*13:01	*38:02	*04:06	*07:02	SSO
4269	Hanau,Daniel	NT						
3808	Hogan,Patric	*24	*68	*13	*38	*04	*07	SSP
745	Holman,Richa	*24:02	*68:01	*13:01	*38:02:01	*04:06	*07:02	SSO,SSP,SBT
771	Israel,Shosh	*24:02	*68:01	*13:01	*38:02	*04:06	*07:02	PCR-SSP,SBT
9003	Israel_LR	*24	*68	*13	*38	*04	*07	PCR-SSO
859	Kamoun,Malek	*24:02	*68:01	*13:01	*38:02	*04:06	*07:02	
4337	Kim,Tai-Gyu	*24:02/09N/11N/40N+	*68:01	*13:01	*38:02/18	*04:06	*07:02/50/66/74+	SBT
168	Klein,Tirza	*24:02	*68:01	*13:01	*38:02	*04:06	*07:02	PCR-SSO,SSP
9000	Klein_LR	*24	*68	*13	*38	*04	*07	PCR-SSO
725	Lardy,N.M.	*24	*68	*13	*38	*04	*07	SSO,SSP
278	Lee,Jar-How	*24:02/150/153-155N+	*68:01	*13:01/43	*38:02	*04:06	*07:02/100/105+	SSP,RVSSOP
6649	Lim,Young Ae	*24	*68	*13	*38	*04	*07	SSP
274	Lo,Raymundo	*24	*68	*13	*38	*04:06	*07	SSO
731	Loewenthal,R	*24:02	*68:01	*13:01	*38:02:01	*04:06	*07:02	SBT,SSO
759	Lopez-Cepero	*24:02/09N/11N/15+	*68:01/22/25/27/35+	*13:01/11/22+	*38:02/15/18	*04:06	*07:02/32N/38+	RVSSO
23	Mah,Helen	*24:02	*68:01	*13:01	*38:02	*04:06	*07:02	SSO,SSP
8029	Mani,Rama	*24	*68	*13	*38			PCR-SSP
206	McAlack-Hana	*24	*68	*13	*38	*04:06	*07	RVSSOP
8001	Rao,Prakash	*24	*68	*13	*38	*04	*07	
3625	Rees,Tracey	*24:02	*68:01	*13:01	*38:02/18	*04:06	*07:02	PCR-SSP,SBT
5200	Reinke,Denni	*24	*68	*13	*38	*04	*07	SSP
3519	Renac,Virgi	*24:02	*68:01	*13:01	*38:02	*04:06	*07:02	SBT
1160	Rosen-Bronso	*24:02	*68:01	*13:01	*38:02	*04:06	*07:02	SBT,SSP
793	Rubocki,Ron	*24	*68	*13	*38	*04	*07	SSP
4251	Schiller,J	*24:02P	*68:01	*13:01	*38:02	*04:06	*07:02:01G	PCR-RSSO,SBT
747	Tiercy,Jean-	NT						
5451	Tilanus,Marc	*24:02:01	*68:01:01	*13:01	*38:02:01	*04:06	*07:02:01	SBT
5462	Turner,E.V.	*24:02P	*68:01:01G	*13:01P	*38:02:01	*04:06	*07:02:01G	SEQ,SSO
5642	Varnavidou-N	*24	*68	*13	*38	*04	*07	PCR-SSP
3186	Watson,Narel	*24	*68	*13	*38	*04	*07	SSO

Cell 1449 (Caucasian)

47 labs

A*02	55%
A*02:01	28%
A*02:01:01	11%
A*02:01:01G	6%
A*02	100% TOTAL
A*24	47%
A*24:03	36%
A*24:03:01	17%
A*24	100% TOTAL

47 labs

B*07	60%
B*07:02/61	6%
B*07:02	24%
B*07:02:01	6%
B*07:02:01G	4%
B*07	100% TOTAL
B*40	49%
B*40:01	43%
B*40:01:02	4%
B*40:01P	2%
B*40:01:01G	2%
B*40	100% TOTAL

46 labs

C*03	57%
C*03:04	35%
C*03:04:01	6%
C*03:04:01G	2%
C*03	100% TOTAL
C*07	59%
C*07:02	30%
C*07:02:01	7%
C*07:02:01G	4%
C*07	100% TOTAL

Cell 1450 (Filipino)

47 labs

A*24	45%
A*24:02	2%
A*24:07	53%
A*24	100% TOTAL
A*26	57%
A*26:01	28%
A*26:01:01	15%
A*26	100% TOTAL

47 labs

B*35	47%
B*35:05	36%
B*35:05:01	17%
B*35	100% TOTAL
B*40	45%
B*40:01	51%
B*40:01P	2%
B*40:01:01G	2%
B*40	100% TOTAL

46 labs

C*03	52%
C*03:04	35%
C*03:04:01	11%
C*03:04:01G	2%
C*03	100% TOTAL
C*04	61%
C*04:01	28%
C*04:01:01	7%
C*04:01P	2%
C*04:01:01G	2%
C*04	100% TOTAL

Cell 1451 (Hispanic)

45 labs

A*24	58%
A*24:02	34%
A*24:02:01	4%
A*24:02P	4%
A*24	100% TOTAL
A*31	56%
A*31:01	33%
A*31:01:02	11%
A*31	100% TOTAL

45 labs

B*35	58%
B*35:01	2%
B*35:03	29%
B*35:03:01	11%
B*35	100% TOTAL
B*35	51%
B*35:43	38%
B*35:43:01	9%
B*35	98% TOTAL

44 labs

C*01	57%
C*01:02	39%
C*01:02:01	2%
C*01:02P	2%
C*01	100% TOTAL
C*04	57%
C*04:01	34%
C*04:01:01	5%
C*04:01P	4%
C*04	100% TOTAL

Cell 1452 (Filipino)

45 labs

A*24	56%
A*24:02	38%
A*24:02:01	2%
A*24:02P	4%
A*24	100% TOTAL
A*68	49%
A*68:01	42%
A*68:01:01	5%
A*68:01:01:01	2%
A*68:01:01G	2%
A*68	100% TOTAL

45 labs

B*13	51%
B*13:01	47%
B*13:01P	2%
B*13	100% TOTAL
B*38	49%
B*38:02/18	7%
B*38:02	31%
B*38:02:01	13%
B*38	100% TOTAL

44 labs

C*04	32%
C*04:06	68%
C*04	100% TOTAL
C*07	57%
C*07:02	34%
C*07:02:01	5%
C*07:02:01G	4%
C*07	100% TOTAL

		Cell No 1449 (Caucasian)									Cell No 1450 (Filipino)									Cell No 1451 (Hispanic)									Cell No 1452 (Filipino)								
Investigator	Days Old	Viab %	A2	A24	B7	B60	CW3	CW7	BW6	OTHERS	Viab %	A24	A26	B35	B60	CW3	CW4	BW6	OTHERS	Viab %	A24	A31	B35	CW1	CW4	BW6	OTHERS	Viab %	A24	A68	B13	B38	CW4	CW7	BW4	OTHERS
Alonso, Anton	???	90	+	+	+	+	W10		+		90	+	+	+	+	W10	+	+		90	+	+	+		+	+		90	+	+	+	+	+	+	+	
Alvarez, Carr	6	90	+	+	+	+			+		90	+	+	+	+			+		90	+	+	+			+		90	+	+	+	+			+	
Askar, Medhat	2	95	+	03	+	+	+	+	+	A24V	95	+	+	+	+	+	+	+		95	+	+	+	+	+	+	B71	95	+	+	+	+	W6	+	+	
Cecka, J. Mic	???	95	+	03	+	+			+		95	+	+	+	+			+		95	+	+	+			+		95	+	+	+	+			+	
Charron, Domi	4	95	+	+	+	B40					95	+	+	+	B40					95	+	+	+					95	+	+	+	+				
Claas, F.H.J.	6	90	+	03	+	+	+		+		90	+	+	+	+	+	+	+		90	+	+	+	+	+	+		90	+	+	+	+			+	
Dunk, Arthur	2	98	+	03	+	+	+	+	+		98	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	A28	+	+	W6	+	+	
Dunn, Paul	???	95	+	+	+	+			+		95	+	+	+	+			+		95	+	+	+			+		95	+	+	+	+			+	
Enczmann, J	???	98	+	+	+	+					95	+	+	+	+					95	+	+	+					95	+	+	+	+				
Esteves Kondo	8	98	+	03	+		+	+	+	B60V	98	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	+	+	+		+	+	CW4V
Fort, Marylis	???	98	+	+	+	B40			+		98	+	+	+	+			+		98	+	+	+			+		98	+	+	+	+			+	
Gideoni, Osna	???	100	+	+	+	+	+	+			100	+	+	+	+	+	+			100	+	+	+	+	+			100	+	+	+	+	+	+		
Hahn, Amy B.	2	99	+	03	+	+	W10	+	+		99		+	+	+	W10	+	+	A80>	99	+	+	+	+		+	B70>	99	+	+	+	+	W6	+	+	
Harville, Ter	???	80	+	03	+	+	W10	+	+		90	+	+	+	+	W10	+	+		95	+	+	+	+	+	+		90	+	+	+	+	W6	+	+	
Hesse, Kissel	???	92	+	03	+	+	+	+			88	+	+	+	+	+	+			88	+	+	+	+	+			88	+	+	+	+	+	+		
Hogan, Patric	10	50	+	+	+	+	+	+	+		50	+	+	+	+	+	+	+		0	+	+	+	+	+			50	+	+	+	+	+	+		
Holdsworth, R	10	80	+	+	+	+			+		80	+	+	+	+			+		0								0								
Holman, Richa	3	100	+	03	+	B40					100	+	+	+	B40					100	+	+	+					100	+	+	+	+				
Hubbell, Char	???																																			
Israel, Shosh	???	95	+	+	+	+	+	+			95	+	+	+	+	+	+			95	+	+	+	+	+			94	+	+	+	+	+	+		
Kapoor, Parkm	1	100	+	+	+	+	+	+	+		100	+	+	+	+	+	+	+		100	+	+	+	+	+	+		100	+	+	+	+	+	+	+	
Keown, Paul M	7	98	+	+	+	+			+		98	+	+	+	+			+		98	+	+	+			+		98	+	A28	+	+			+	
Klein, Tirza	???	80	+	+	+	+	+	+			90	+	+	+	+	+	+			85	+	+	+	+	+			90	+	+	+	+		+		
Kvam, Vonnett	3	97	+	03	+	+	+	+	+		96	+	+	+	+	+	+	+		97	+	+	+	+	+	+	B70	97	+	A28	+		W6	+	+	B39
Loewenthal MD	12	75	+	+	+	+	+	+	+		75	+	+	+	+	+	+	+		75	+	+	+	+	+	+		75	+	+	+	+	+	+	+	
Mah, Helen	3	98	+	03	+	+	+	+	+		98	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	+	+	+	W6	+	+	
McCluskey, Ja	???																																			
Meyer, Pieter	???	90	+	+	+	+	+	+			85	+	+	+	+	+				80	+	+		+			B50>	75	+	+	+	+	+	+		
Mpuntsha, Loy	6																																			
Norin, Allen	2	99	+	+	+	+			+		99	+	+	+	+			+		99	+	+	+			+		99	+	+	+	+			+	
Pancoska, Car	2	98	+	+	+	+	W10	+	+		96	+	+	+	+	W10	+	+		98	+	+	+	+	+	+		97	+	+	+	+	W6	+	+	
Permpikul, Ve	6	80	+	+	+	+			+		80	+	+	+	+			+		80	+	+	+			+		80	+	+	+	+			+	
Pollack, Mari	2	98	+	03	+	+	+	+	+		98	+	+	+	+	+	+	+		98	+	+	+	+	+	+	B75	98	+	+	+	+	W6	+	+	
Rees, Tracey	6	70	+	03	+	+	+	+	+		70	+	+	+	+	+	+	+		75	+	+	+	+	+	+		65	+	+	+	+	+	+	+	C403
Renac, Virgin	???	99	+	+	+	+			+		99	+	+	+	+			+		99	+	+	+			+		99	+	A28	+	+			+	
Rosen-Bronson	???	90	+	+	+	+					90	+	+	+	+					90	+	+	+					90	+	+	+	+				
Rubocki, Rona	???	95	+	03	+	+	+	+	+		96	+	+	+	+	+	+	+		99	+	+	+	+	+	+		99	+	+	+	+		+	+	
Shai, Isaac	???	86	+	+	+	+	+		+	B56>	NT									NT								NT								
Stamm, Luz	???																																			
Stavropoulos,	2	99	+	03	+	+	+	+	+		96	+	+	+	+	+	+	+		96	+	+	+		+	+		96	+	A28	+	+	+	+	+	
Tiercy, Jean-	6	90	+	+	+	+			+		90	+	+	+	+			+		NT								NT								
Tilanus, Marc	???	80	+	+	+	+			+		80	+	+	+	+			+		80	+	+	+			+		80	+	A28	+	+			+	
Varnavidou-Ni	7	98	+	03	+	+			+		98	+	+	+	+			+		98	+	+	+			+		98	+	+	+	+			+	
Vidan-Jeras,	6	90	+	03	+	+			+		90	+	+	+	+			+		85	+	+	+			+		95	+	+	+	+			+	
Walter Reed N	???	99	+	+	+	+	+	+			99	+	+	+	+	+	+			99	+	+	+	+	+		B15	99	+	A28	+	+	W6	+		
Watson, Narel	14	0									0									0								0								
Wisecarver, J	???	98	+	+	+	+			+		98	+	+	+	+			+		98	+	+	+			+		98	+	A28	+	+			+	

SUMMARY TABLE

(Caucasian) Cell 1449 (42 Samples Typed)	
A2	100.0%
	[100.0%]
A24	59.5%
A2403	40.5%
	[100.0%]
B7	100.0%
	[100.0%]
B60	90.5%
B40	7.1%
	[97.6%]
CW3	47.6%
CW10	9.5%
	[57.1%]
CW7	50.0%
BW6	76.2%

Others Found	
CW5	2.4%
B60V	2.4%
B56	2.4%
B67	2.4%
A24V	2.4%

(Filipino) Cell 1450 (41 Samples Typed)	
A24	97.6%
	[97.6%]
A26	100.0%
	[100.0%]
B35	100.0%
B60	95.1%
B40	4.9%
	[100.0%]
CW3	46.3%
CW10	9.8%
	[56.1%]
CW4	53.7%
	[53.7%]
BW6	75.6%

Others Found	
A80	2.4%
A24V	2.4%

(Hispanic) Cell 1451 (39 Samples Typed)	
A24	100.0%
	[100.0%]
A31	100.0%
	[100.0%]
B35	97.4%
CW1	53.8%
CW4	53.8%
	[53.8%]
BW6	71.8%

Others Found	
B70	5.1%
B75	5.1%
B53	2.6%
CW8	2.6%
CW7	2.6%
B50	2.6%
B15	2.6%
B71	2.6%

(Filipino) Cell 1452 (39 Samples Typed)	
A24	100.0%
	[100.0%]
A68	79.5%
A28	20.5%
	[100.0%]
B13	100.0%
B38	97.4%
	[97.4%]
CW4	25.6%
CW6	23.1%
	[48.7%]
CW7	56.4%
BW4	71.8%

Others Found	
C403	2.6%
B39	2.6%
CW4V	2.6%