

# REPORT OF THE 348th CELL EXCHANGE

## APRIL 7, 2010

B-Cell Line	435-436
DNA Extract	477-480
Cells	1389-1392

**Notice about the new changes to the HLA nomenclature:**

As many of you are aware, the new HLA nomenclature with colon delimited HLA allele names was officially introduced at the beginning of this month, as published in the latest report of the WHO Nomenclature Committee for Factors of the HLA System, 2010 (1), and implemented with the April 2010 release of the IMGT/HLA Database. To accommodate the increasing number of new HLA alleles, the decision was made by the committee to use colons within the allele names to act as delimiters. The report provides examples of how the new nomenclature will change an allele name:

A*01010101	becomes	A*01:01:01:01
A*02010102L	becomes	A*02:01:01:02L
A*260101	becomes	A*26:01:01
A*3301	becomes	A*33:01
B*0808N	becomes	B*08:08N
DRB1*01010101	becomes	DRB1*01:01:01:01

The new nomenclature will allow those existing allele families with over 100 alleles, such as A\*02 and B\*15, to be renamed into single series:

A*9201	becomes	A*02:101
A*9202	becomes	A*02:102
A*9203	becomes	A*02:103 etc
B*9501	becomes	B*15:101
B*9502	becomes	B*15:102
B*9503	becomes	B*15:103 etc

The report further explains, "The names A\*02:100 and B\*15:100 will not be

assigned. In cases of other allele families where the number of alleles reaches 100, these will be numbered sequentially, for example A\*24:99 will be followed by A\*24:100."

More new changes include DPB1 allele names:

DPB1*0102	becomes	DPB1*100:01
DPB1*0203	becomes	DPB1*101:01
DPB1*0302	becomes	DPB1*102:01
DPB1*0403	becomes	DPB1*103:01
DPB1*0502	becomes	DPB1*104:02 etc

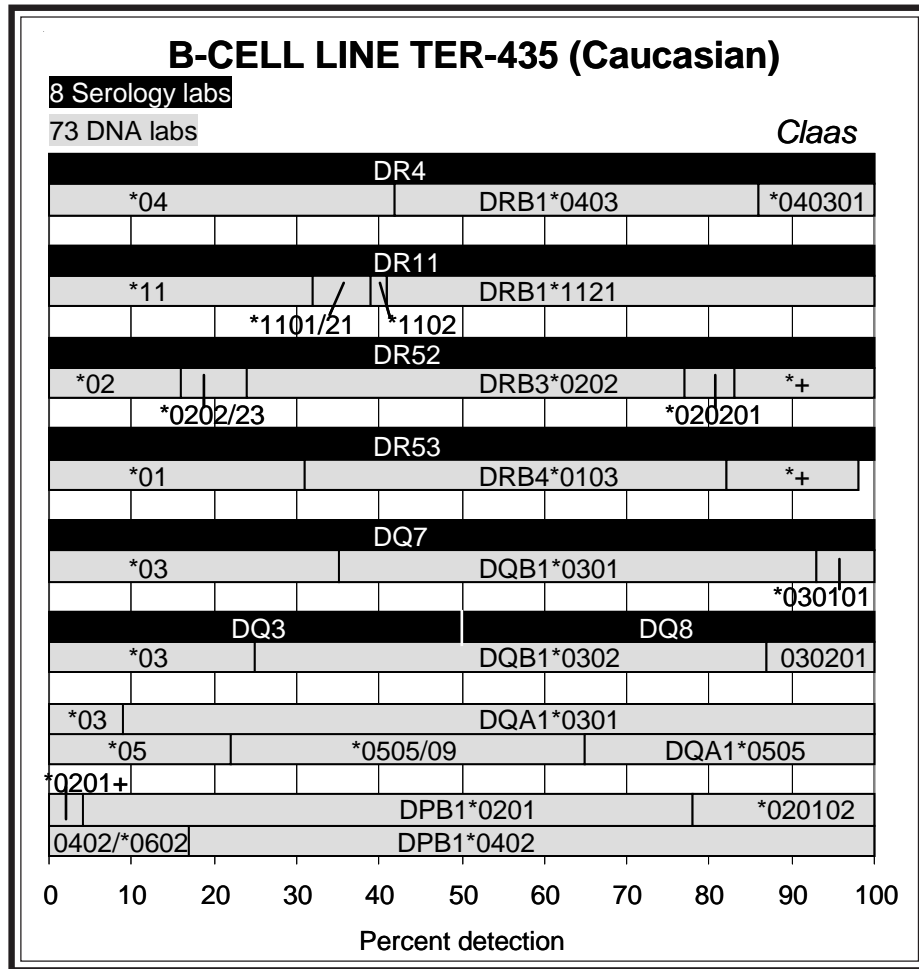
and C-locus allele names will no longer have the "w":

Cw*0103	becomes	C*01:03
Cw*020201	becomes	C*02:02:01
Cw*07020101	becomes	C*07:02:01:01 etc

The full lists of old and new allele names are available in the nomenclature report in the current issue of Tissue Antigens, on the IMGT/HLA Database web site, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), and at <http://hla.alleles.org>.

Our Cell Exchange reports will transition to the exclusive use of the new nomenclature by the end of this year; at this time, you may continue to use the old nomenclature, if needed. However, we encourage you to familiarize yourself with the new nomenclature. You will need to use the new nomenclature to search in the IMGT/HLA Database.

## B-cell line Exchange



We thank **Franz Claas, Leiden University Medical Centre, Leiden,** and **Fu-Meei Robbins, National Institutes of Health, Bethesda,** for offering challenging cells to study in our exchanges.

This month's exchange offered two rare DRB1\*11 alleles to study.

**TER-435.** This Caucasian cell was MUL (2), a reference cell for the rare DRB1\*1121. The cell is also known as TER350 and TER110. This cell was previously typed in the Cell Exchange as TER-251 (1999) and TER-350 (2004) for class II, as correctly identified by Abbal, Barnardo, Hahn, Hanau, Lopez-Cepero, Mah, and Stamm. It was also typed as extract 110 for class I in 1999. MUL remains the sole DRB1\*1121 cell typed in the Cell Exchange.

In this present retyping, DRB1\*1121 (59%) was reported by over half of the labs. Seven percent assigned DRB1\*1102/21 and 2 labs misassigned DRB1\*1102. Verduyn et al. (2) described DRB1\*1121 as being most similar to DRB1\*1102, except in exon 2, at codon 85, GTT->GCT, resulting into an amino acid change of valine to alanine.

DR11 was assigned in complete consensus.

DRB1\*0403 was detected by 58%; DR4 was assigned by 100%.

The likely associations were DRB1\*0403-DRB4\*0103-DQB1\*0302-DQA1\*0301 and DRB1\*1121-DRB3\*0202-DQB1\*0301-DQA1\*0505.

DPB1\*0201 (96%) and DPB1\*0402 (83%) were present in this cell.

The results for this donor when typed as extract 110 indicated A\*0201, A\*0301, B\*1503, B\*3503, Cw\*0401, Cw\*1203. The B\*1503-Cw\*1203 association was detected, not the more commonly found B\*1503-Cw\*0202.

**TER-436.** Another rare DR11 allele, DRB1\*1113 (78%), was present in this cell from a Caucasian donor. Five labs (Clark, Hahn, Lopez-Cepero, Mah, Stamm) were correct in identifying this cell being previously typed as TER-327 in 2003. This cell, TER327, also serves as a reference for DRB1\*1113.

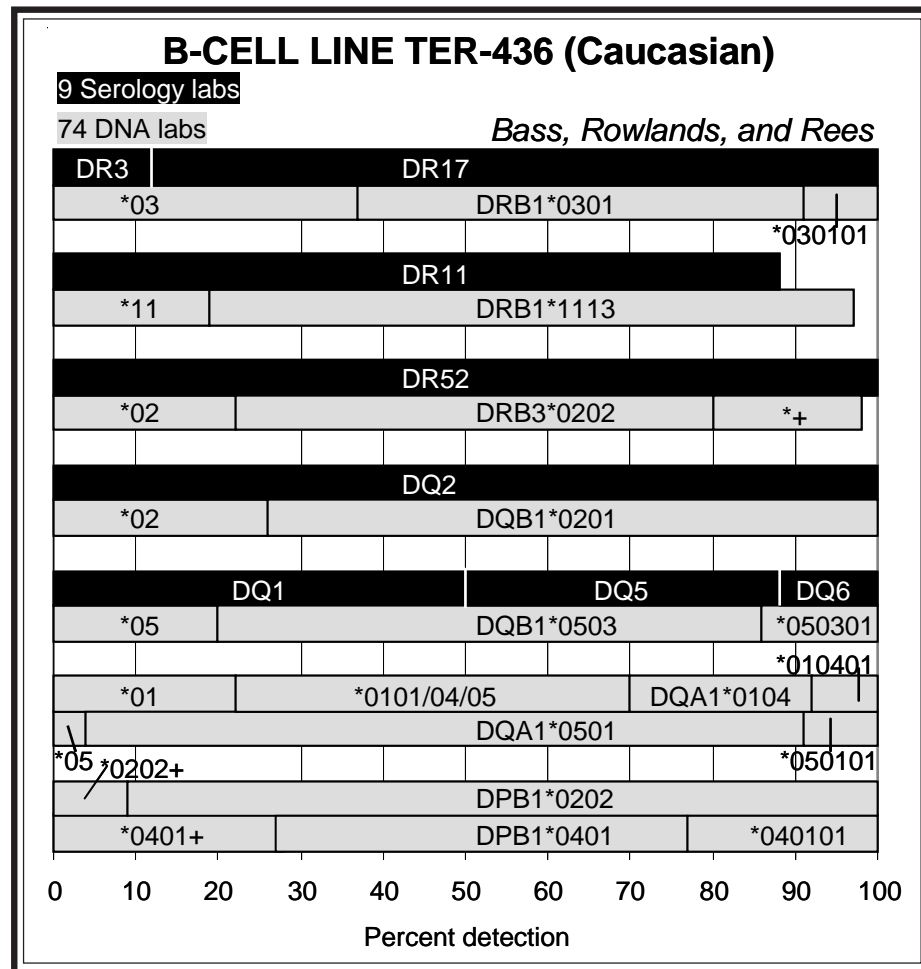
This DR11 allele has a DR11-DR14 hybrid sequence, and therefore, can be described as a DRB1\*1101 variant with some DRB1\*1401 sequence or as a DRB1\*14 allele with some DRB1\*11 sequence (3-6). In the initial 2003 typing, the DRB1\*1113 allele was detected by 74% and DRB1\*14 was misassigned by 7%. Another DRB1\*1113 cell was typed as TER-363 in 2005, attaining the detection level of 78%, and DRB1\*14 was misassigned by 5%. In this present retyping, the reporting of DRB1\*11/\*14 and DRB1\*14 decreased to 3%, thus, the standardization of typing for DRB1\*1113 has improved since its initial typing in the Cell Exchange.

DR11 was assigned by 88% in this retyping. Investigators (3-5) observed that this variant may be typed serologically as either DR11 or DR14.

The other DRB1 allele was DRB1\*0301, as assigned by 63%. DR17 was reported by 88%.

The DPB1 types in this cell were DPB1\*0202 (91%) and DPB1\*0401 (73%). DPB1\*0401 was not conclusively resolved from DPB1\*2302N by 18%.

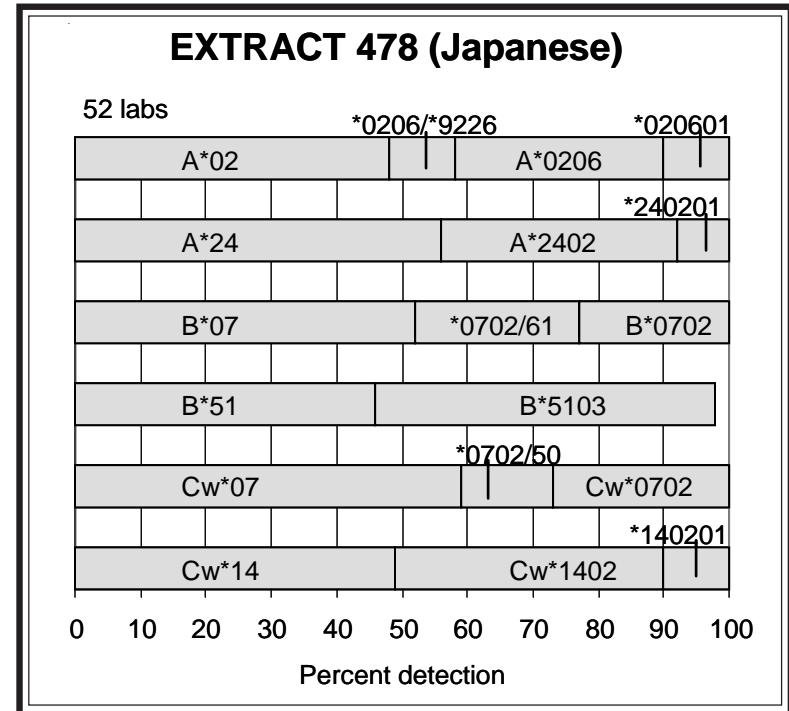
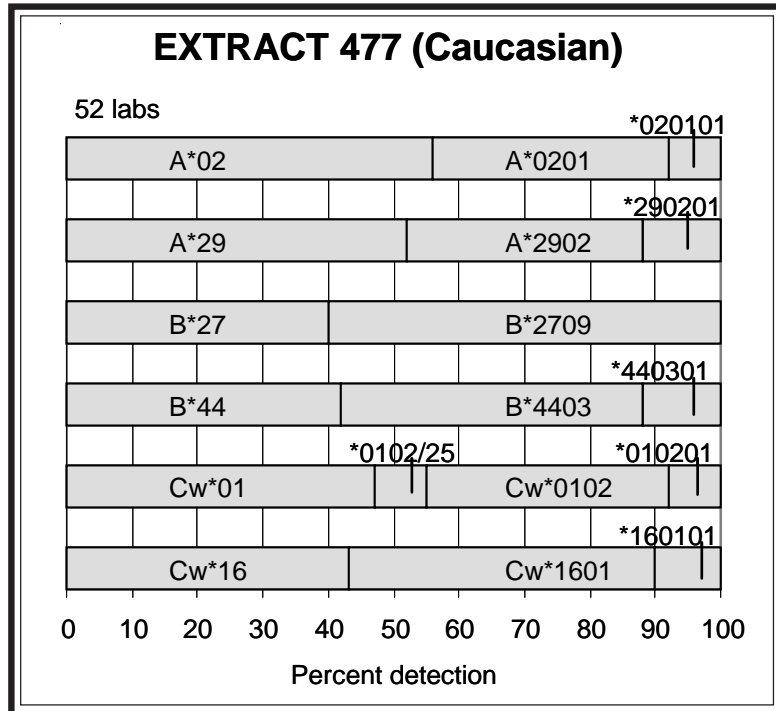
The probable haplotypes in this cell were DRB1\*0301-DRB3\*0202-DQB1\*0201-DQA1\*0501 and DRB1\*1113-DRB3\*0202-DQB1\*0503 (\*050301)-DQA1\*0104. In the previous report for this cell, Lefor commented upon finding a local DRB1\*1113 cell associated with DQB1\*0503 cell from a Caucasian individual. The same DRB1\*1113-DQB1\*0503 was also found in TER-363. Interestingly, DRB1\*14 alleles are commonly found in association with DQB1\*0503 whereas DRB1\*11 alleles are more commonly found in association with DQB1\*0301.



## Extract Exchange

We are grateful for the generous collaboration of **Eric Mickelson** and **John Hansen**, **Fred Hutchinson Cancer Research Center, Seattle**, and

**Fu-Meei Robbins**, **National Institutes of Health, Bethesda**, in providing interesting cells to type in the exchange studies.



**Extract 477.** This Caucasian individual with the rare B\*2709 was typed in recent workshops as IHW#9377. The cell was previously typed as extract 145 (2000), as noted by Brown, Moses and Dunckley, and Stamm. Another B\*2709 cell was typed in 2004 as cell 1190, also from a Caucasian donor, in the Cell Exchange.

In this present retyping, B\*2709 was assigned by 60%. Ten years ago, only 18% of the 60 labs detected the B\*27 subtype in this same cell. In addition, no other subtype was reported in this retyping whereas in the initial typing, B\*2701, B\*2705, and B\*2711 were assigned.

The second B-locus allele was B\*4403 (58%).

The A-locus alleles were A\*0201 (44%) and A\*2902 (48%).

The C-locus types were Cw\*0102 (45%) and Cw\*1601 (57%).

B\*4403-Cw\*1601 and B\*2709-Cw\*0102 were the probable associations. Both reference cells B27-ci and NT00775 were listed as having A2-B27-Cw1. The likely haplotypes in this cell were A\*0201-B\*2709-Cw\*0102, same as found in cell 1190, and A\*2902-B\*4403-Cw\*1601, a commonly found haplotype in all ethnic groups, except in Asians.

**Extract 478.** This cell from a Japanese donor was a workshop cell, IHW#9370, as correctly identified by Moses and Dunckley, and provided the labs an opportunity to type B\*5103. It was previously studied as extracts 149 (2000) and 198 (2002).

In this present retyping, B\*5103 was detected by 52%, increasing over the 31% and 22% detection levels in the previous 2000 and 2002 typings,

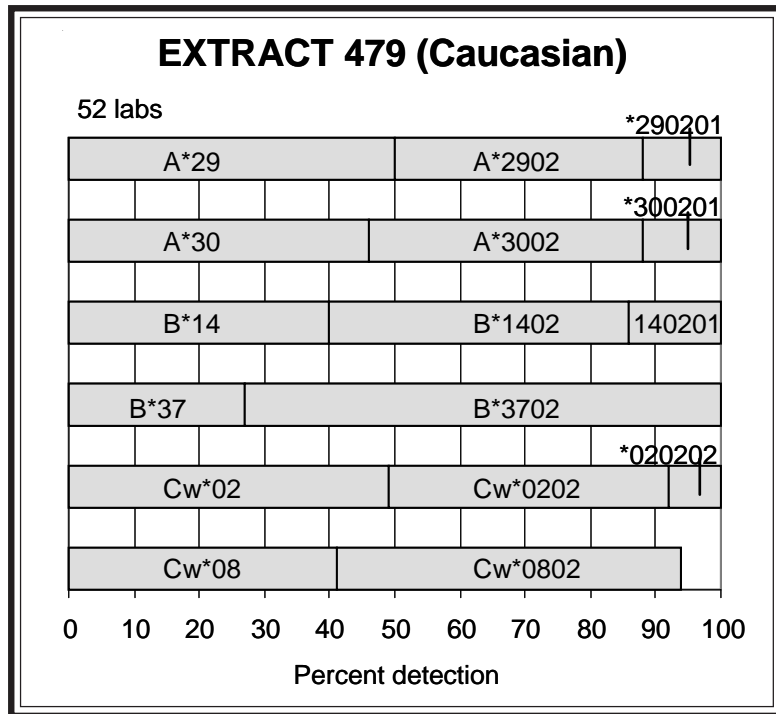
respectively. B\*5103 differs from B\*5101 by only one substitution in exon 3, at codon 167 (TGG->GGG), resulting in a change of tryptophan to glycine (7). Kawaguchi et al. further described that serology could distinguish the product from this variant with the one amino acid substitution from the normal B51.

B\*0702 was also present, as reported by 23%.

A\*0206 (42%) and A\*2402 (44%) were the A-locus types.

The C-locus alleles were Cw\*0702 (27%) and Cw\*1402 (51%).

Haplotype data from the NMDP web site, bioinformatics.nmdp.org, indicated that A\*2402g-B\*0702g-Cw\*0702 (HF=.01062) is frequently found in Asian populations; therefore, A\*2402-B\*0702-Cw\*0702 and A\*0206-B\*5103-Cw\*1402 may be present in this donor.



**Extract 479.** The unusual and rare B\*3702 was typed for the first time in the Cell Exchange in this Caucasian cell. Santos et al. (8) described this variant in a Syrian family as a hybrid between B37 and B27, that is, “B\*3702 is identical in exon 2 to B\*3701... Exons 3 to 8 are identical between B\*3702 and a number of HLA-B27 subtypes (all except Oriental HLA-B27 subtypes B\*2704, B\*2706, and B\*2707.” The investigators observed that cells from the 2 family members with the novel B\*37 allele had inconsistent reactivity against B37 antisera and weak reactivity with anti-B27 allosera. The results listed in 2008 HLA Dictionary (9) also indicated that this product would not react as a normal B37:

Expert assigned: B37/B27

NMDP - 6 cells

Assigned type (%): B27 (33), blank (33), B37 (17), B47 (17)

Neural network (NN): Not assigned

Comments: B37x27 or blank, few B37 and few B27 sera reactive;  
NN:B37

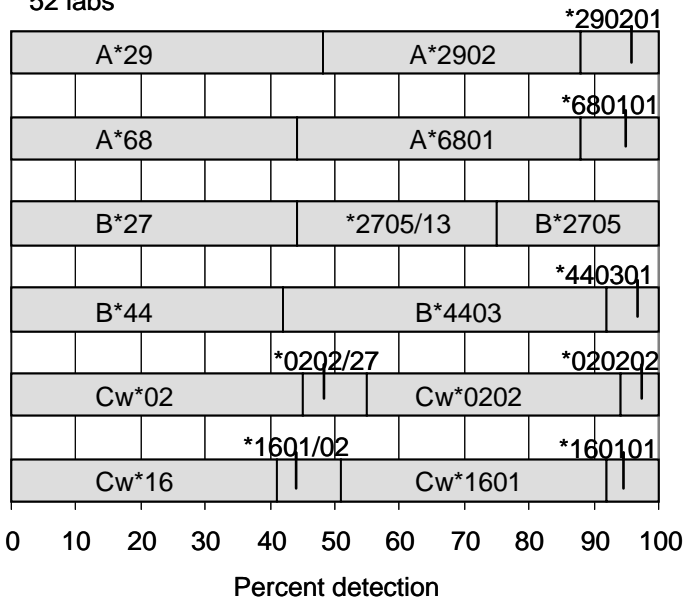
B\*3702 was detected by 73% of the labs.

The second B-locus allele, B\*1402, was assigned by 60%.

Since B\*1402 is found in strong association with Cw\*0802 in all ethnic groups except Asians, the likely associations in this cell were B\*1402-Cw\*0802 and B\*3702-Cw\*0202.

### EXTRACT 480 (Korean)

52 labs



**Extract 480.** This Korean cell was previously typed in the Cell Exchange for class II as TER-364 (2005), having the rare DRB1\*1114. The class I typing was also included in the final report as A\*2902, A\*680101, B\*270504, B\*440301, Cw\*020202, Cw\*1601, as was provided to us. However, Dawn Wagenknecht, St. Francis Hospital, Beech Grove, recently notified us that the cell did not typed as B\*270504 when used as a control to confirm results of a patient; instead, SSP revealed the B-locus alleles for this cell as B\*440301, B\*270502.

In this present study, the results from 52 labs indicated the high-resolution class I for this cell was A\*2902, A\*6801, B\*2705, B\*4403, Cw\*0202, Cw\*1601. The probable haplotypes were A\*2902-B\*4403-Cw\*1601 and A\*6801-B\*2705-Cw\*0202.

The high-resolution class II typing for this cell was DRB1\*0701, DRB1\*1114, DRB3\*0202, DRB4\*0101, DQB1\*0202, DQB1\*0301, DQA1\*0201, DQA1\*0505.

## Cell Exchange

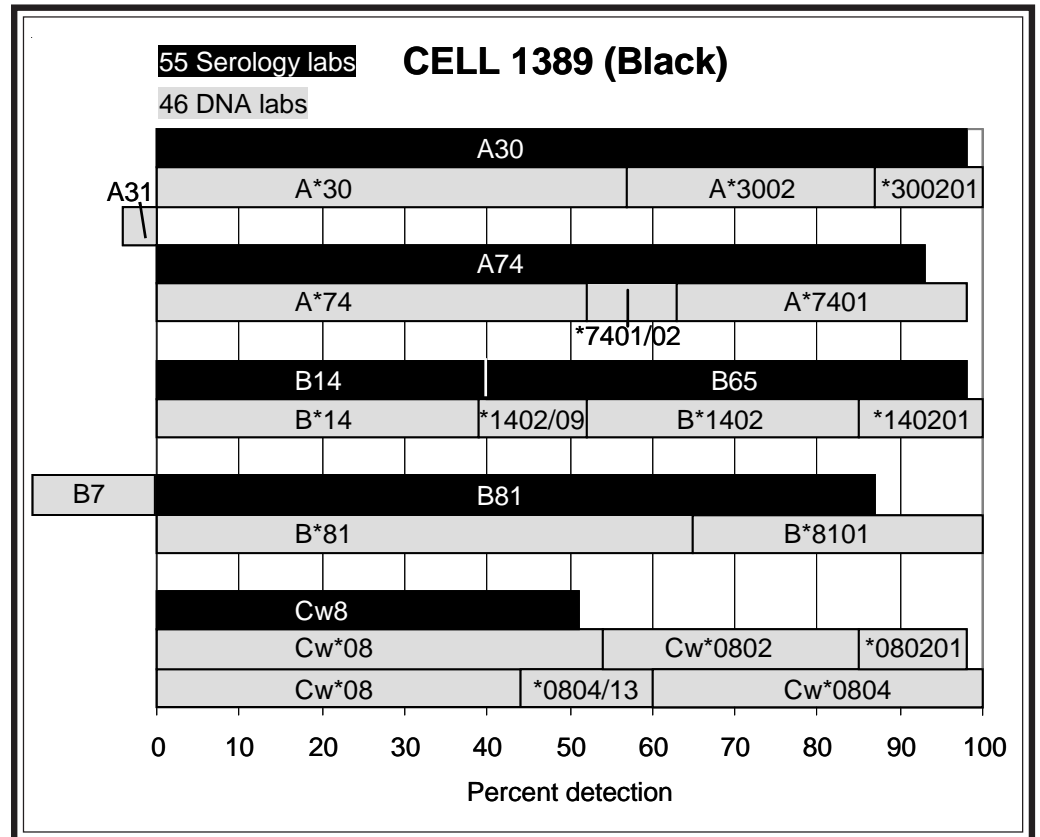
**Cell 1389.** B81 was detected by 88% in this cell from a Black individual and was confirmed as B\*8101 (36%).

The other B-locus type was B14 (98%), with 57% assigning B65, verified as B\*1402 (49%).

The 2 A19 specificities, A30 (96%) and A74 (93%), were corroborated as A\*3002 (45%) and A\*7401 (36%), respectively.

Cw8 was typed by 52%. Two different Cw\*08 alleles, Cw\*0802 (46%) and Cw\*0804 (41%), were present.

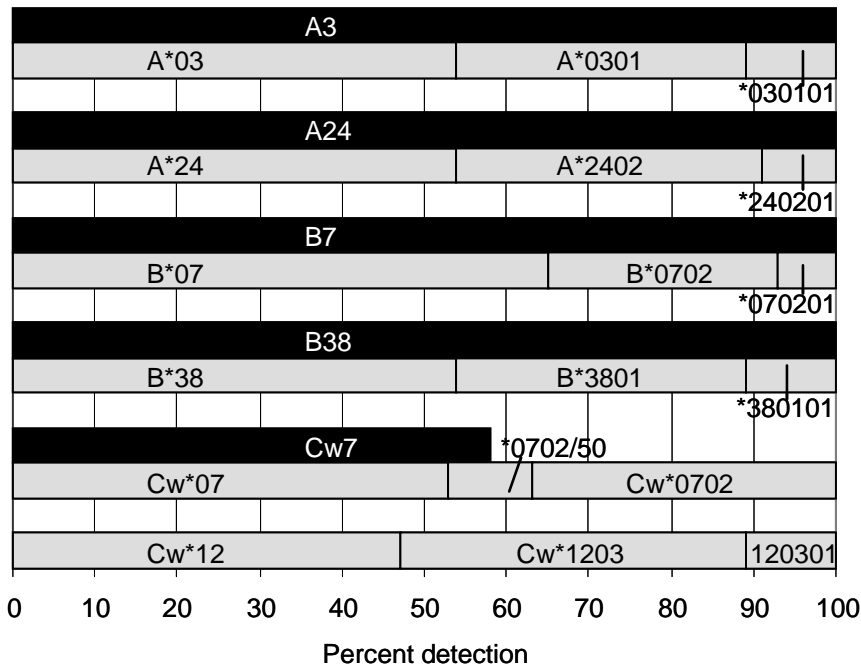
The probable associations were B14-Cw8 and B81-Cw8, that is, B\*1402-Cw\*0802 and B\*8101-Cw\*0804. B\*8101 is usually found in association with either Cw\*18 or Cw\*0804.



55 Serology labs

### CELL 1390 (Hispanic)

46 DNA labs



**Cell 1390.** This Hispanic cell was well typed as A3, A24, B7, B38, Cw7 and high-resolution typing results revealed A\*0301, A\*2402, B\*0702, B\*3801, Cw\*0702, Cw\*1203.

The probable haplotypes were A\*0301-B\*0702-Cw\*0702 and A\*2402-B\*3801-Cw\*1203. According to the NMDP Bioinformatics web site, A\*0301g-B\*0702g-Cw\*0702 (HF=0.02408) was the third highest ranking haplotype in Hispanics and A\*2402g-B\*3801-Cw\*1203 had HF=0.00258.



**Cell 1391.** Although there was no question that B17 was present in this Black cell, with the majority of the labs assigning B57 (84%), it was more difficult to serologically assert that B58 (38%) was also present, as a number of labs suspected. The B-locus assignments were:

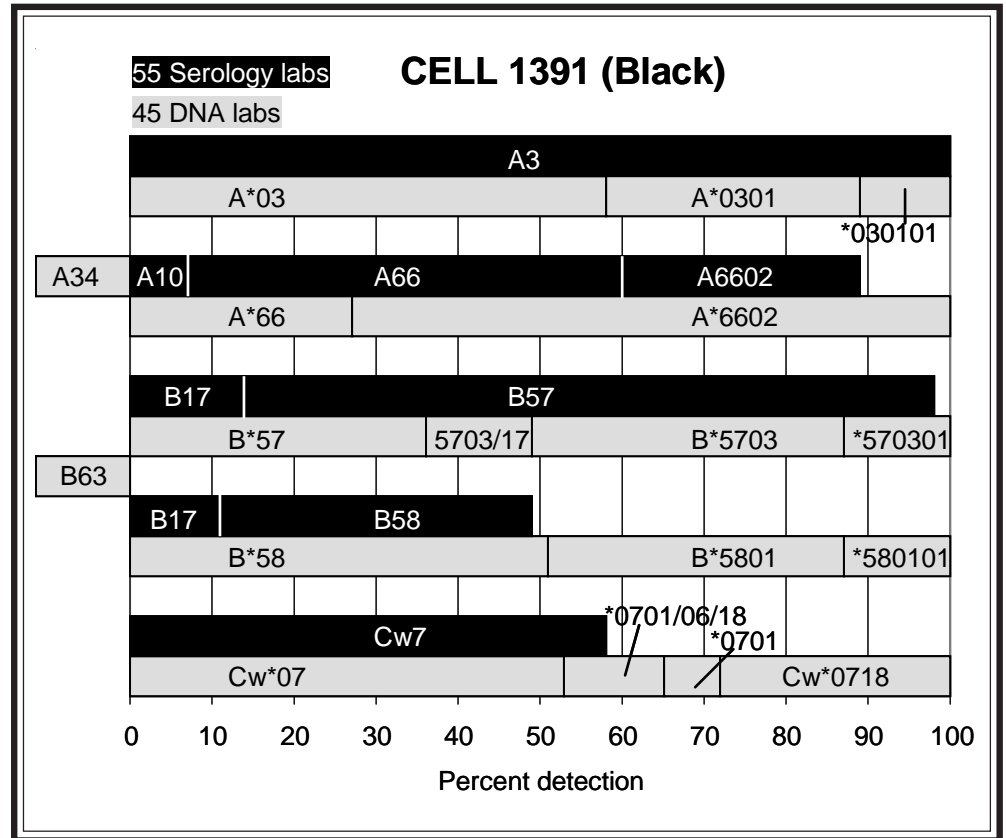
antigens	# labs	of 56 reporting labs
B57, B58	20	36%
B57, -	18	32%
B17	8	14%
B57, B17	6	11%
B57, B63	3	5%
B58, B63	1	2%

Dunk commented that B58 is found in strong linkage disequilibrium with A6602 and Kondo noted the common haplotype linkage of A6602-B58-Cw7. The presence of both B17 antigens were confirmed by DNA results as B\*5703 (52%) and B\*5801 (50%).

A66 was reported by 82%, with 29% assigning A6602. A\*6602 was assigned by 74%.

Cw7 was assigned by 59%. Cw\*07 reached 100% consensus, with Cw\*0718 assigned by 29% and Cw\*0701 by 7%. However, it was not resolved from the final results whether one or two different Cw\*07 alleles were present:

allele assignments	# labs	of 44 reporting labs
Cw*0718, -	4	9%
Cw*0701, *0718	4	9%
Cw*0701, -	3	7%
Cw*0718, *0701/18	3	7%
Cw*0718, *07	2	4%
Cw*0701, *0701/18	1	2%



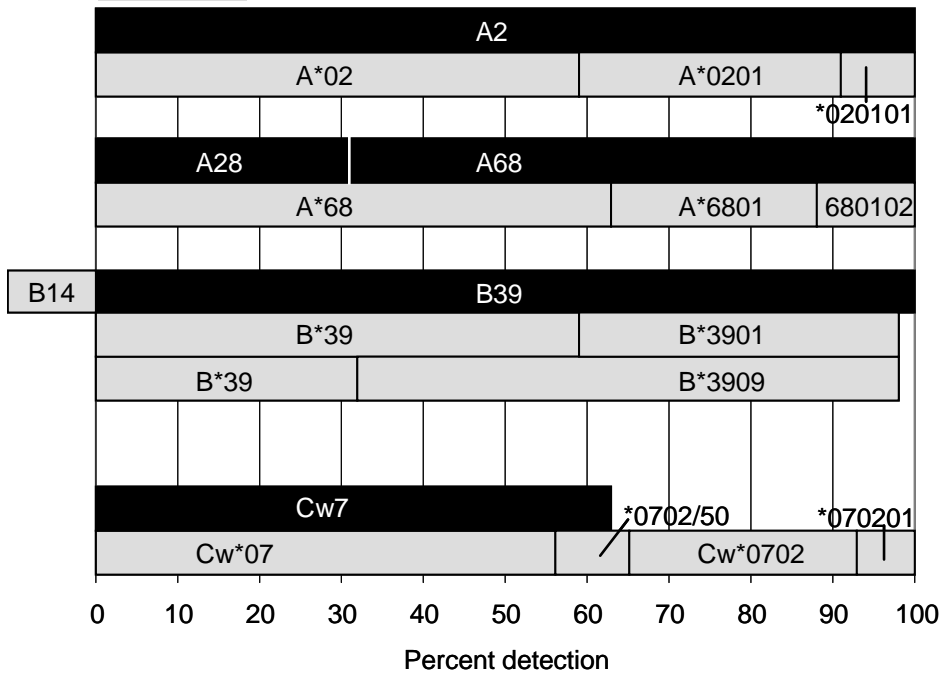
Delfino et al. (10) described, "Cw\*0718 differs from the Cw\*070101 allele by a unique nucleotide position within exon 6, resulting in an amino acid substitution at codon 324 (Ala->Val) in the cytoplasmic region of the molecule."

The likely associations in this cell were A\*0301-B\*5703-Cw\*07 and A\*6602-B\*5801-Cw\*07. We plan to study this provocative cell again in the near future.

54 Serology labs

### CELL 1392 (Hispanic)

44 DNA labs



**Cell 1392.** This cell from an Hispanic individual was previously typed in the Cell Exchange, as cells 1270 (2006), 1300 (2007), and 1342 (2008).

In the present retyping, B39 was assigned in complete consensus, with both B\*3901 (40%) and B\*3909 (67%) reported by DNA. Assignments of B14 (11%) and B64 (4%) were likely due to the B39 homozygosity.

A2 (100%) and A68 (69%) were reaffirmed as A\*0201 (42%) and A\*6801 (38%), respectively.

Cw7 (64%) was verified as Cw\*0702 (37%) as the sole C-locus type.

## References

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**NEXT MAILING DATE: May 5, 2010**

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Gideon_LR,	Haifa		Mytilineos MD, Joanni	Ulm		Yu_Neng/UMMHC,	Worcester	MA
Gillespie, Dr Kathlee	Bristol		Nelson PhD, Karen	Seattle	WA	Zachary PhD, Andrea	Baltimore	MD
Gladman/Pellet, Polla	Toronto	ON	Noreen, Harriet	Minneapolis	MN	Zeevi PhD, Adriana	Pittsburgh	PA
Gomez, Carmen	Miami	FL	Norin, Dr Allen	Brooklyn	NY			

B-CELL LINE TER-435

CTR DIRNAME	DRB1	DRB1X	DRB3	DRB4	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1X	METHOD
4079 Abbal, Michel	*0403	*1121			*0301	*0302					RVSSO, P-SSP
5488 Adams, Sharon	*040301//+	*1121//+	*0202	*01	*030101	*030201	*0301	*0505/10	*020102	*0402	RSSO, SSP, SBT
8062 Al-Attas, Rab	*04	*11			*03	*03					SSO
2020 Barnardo, Mar	*0403	*1121	*0202/05+	*0101-05+	*030101	*030201	*0301-03	*0505/08+	*020102	*0402	SBT, P-SSP
774 Cecka, J. Mich	*0403/60/71	*1121	*0202/23	*0103	*0301	*030201					SSP
785 Chan, Soh Ha	*0403/27	*1102/21	*020201	*010301	*03	*03	*0301-03	*0501/03+			SBT
4492 Charron, D.	*0403	*1121	*0202	*0103	*0301	*0302	*0301	*0505/09	*0201	*0402	P-SSO, SSP
3224 Chen, Dongfen	*0403	*1121	*0202	*0103	*0301	*0302	*0301	*0505/09			SBT, SSP, RSSO
8021 Clark, Brenda	*0403/27/52	*1102/21	*0107/*02	*01	*0301	*0302			*0201	*0402	P-SSP, SSO
3632 Colombe, Beth	*0403	*1121	*0202	*0103	*0301	*0302					SSP
5130 Costeas, Paul	*0403	*1121	*0202	*0103	*0301	*0302	*0301	*0505			SSO, SSP
779 Daniel, Claud	*04	*11	*01-*03	*01010101+	*03(DQ7)	*03(DQ8)					P-SSP
5219 Daniel, Dolly	*04	*11	*+	*+	*03	*03					P-SSOP
5323 Dhaliwal, J.S	*0403	*1121	*0202/23	*0301-04	*0301/04+	*0302/05+					P-SSP
5891 Du, Keming	*0403	*1121			*0301	*0302					
856 Dupont, Bo	*0403/39/51+	*1102/21/48+			*0301/19+	*0302/04					SSO
5214 Eckels/CPMC	*04	*11	*0202	*01	*03	*0302	*0301	*05	*0201	*0402	SSOP
3428 Eckels/Utah	*0403/27/52	*1102/21			*0301	*0302	*0301	*0505/09	*0201	*0402	SSOP
2332 Elkhalfifa, Mo	NT										
4251 Ellis, Thomas	*0403	*1121	*0202/12	*0101/03+	*0301	*0302			*0201	*0402/*0602	P-SSO, SEQ
3135 Fischer, John	*0403	*1121	*0202	*0103	*0301	*0302			*0201	*0402	SBT, P-SSP
762 Fischer/Mayr	*0403	*1121	*0202	*0101/03+	*0301	*0302	*0301	*0505			RSSO, LBT, SSP+
792 Gandhi&Genco	*0403	*1121	*0202	*0103	*0301	*0302	*0301	*0505/08+			P-SSO, SSP
8043 Gideon, Osna	*0403	*1121			*0301	*0302					SSP
9002 Gideon_LR	*04	*11			*0301/04+	*0302/05+					SSO, SSP
234 Gomez, Carmen	*04	*11	*02	*01	*03	*03					SSP
5195 Gomez, Carmen	*04	*11	*0202	*01	*03	*0302					SSOP
910 Hahn, Amy B.	*0403/60/71	*1121	*0202/23	*0103	*0301/21+	*0302					SSP
4691 Hajeer, Ali	*04	*11			*03	*03					
810 Hamdi, Nuha	*040301	*110201			*030101	*030201					SSO
4269 Hanau, Daniel	*040301	*1121	*020201	*0103	*0301/24	*0302			*0201	*0402	P-SSP, SBT
1461 Hidajat, M.	*0403	*1121	*0202	*0103	*0301	*0302			*0201	*0402	SSO, SSP
2344 Hurley/Hartz	*040301	*1121			*030101+	*030201			*020102	*0402/*0602	SBT
771 Israel, Shosh	*0403	*1102			*0301	*0302					RVSSO, SSP
9003 Israel_LR	*04	*11			*02						SSO
748 Jaramillo, An	*04	*11	*+	*+	*03(DQ7)	*03(DQ8)					P-SSP
859 Kamoun, Malek	*0403	*1121	*0202	*0103	*0301	*0302	*0301	*0505/09			P-SSO, SSP
797 Kato, Shunich	*0403/27	*1102/21			*0301/09+	*0302					SSO, +SBT-DR
4337 Kim, Tai-Gyu	*0403	*1121			*0301	*0302			*0201	*0402	SBT
168 Klein, Tirza	*0403	*1121			*0301	*0302					P-SSO, SSP
9000 Klein_LR	*04	*11			*03	*03					P-SSO, SSP
87 Land, Geoffre	*0403	*1121	*0202	*0103	*0301	*0302	*0301	*0505	*0201	*0402	SSO, SSP, SBT
725 Lardy, N.M.	*04	*11	*+	*+	*03		*0301	*0505			SSO, SSP
278 Lee, Jar-How	*0403	*1121	*0202	*0103	*0301	*0302	*0301	*0505/09	*0201	*0402	RVSSOP, SSP
640 Lee, Kyung Wh	*0403	*1121			*0301	*0302	*030101	*0505			P-SBT
6649 Lim, Young Ae	*04	*11	*+	*+							P-SSP
731 Loewenthal, R	*040301	*1121			*0301/02	*03					SSO, SBT
759 Lopez-Cepero	*0403/27/50+	*1121/02/70			*0301	*0302	*0301	*0505/09	*0201+	*0402/*0602+	RVSSO
23 Mah, Helen	*0403	*1121	*0202	*01	*0301	*0302	*0301	*0505/09			SSO, SSP
8029 Mani, Rama	*04	*11	*+	*+							P-SSP
206 McAlack-Bala	*04	*11	*0202	*01	*0301	*0302					SSO
9916 McIntyre, Joh	*040301	*1121	*0202	*0103	*0301	*0302					SSP, SBT
794 Merenmies, Ju	*0403	*1121	*0202	*0103	*0301	*0302			*0201	*0402/*0602	SBT, SSO, SSP
8042 Muncher, Lior	*0403	*1121			*0301	*0302					SSP, SSOP
8065 Padua, Flore	*04	*11	*02	*01	*0301	*0302					SSP
5096 Park, Yun Mi	*04	*11									P-SSO
3648 Pereira, Noem	*040301	*1121			*030101	*030201					RVSSO, SBT



B-CELL LINE TER-435 (Caucasian)

73 DNA LABS

73 LABS REPORTING DRB1

DRB1*04	42%
DRB1*0403	44%
DRB1*040301	14%
DRB1*04	100% TOTAL

DRB1*11	32%
DRB1*1102/21	7%
DRB1*1102	1%
DRB1*110201	1%
DRB1*1121	59%
DRB1*11	100% TOTAL

51 LABS REPORTING DRB3

DRB3*+	17%
DRB3*0202	53%
DRB3*020201	6%
DRB3*02	16%
DRB3*0202/23	8%

51 LABS REPORTING DRB4

DRB4*+	16%
DRB4*0103	47%
DRB4*010301	2%
DRB4*01030101	2%
DRB4*01	31%

8 SEROLOGY LABS

DR4	100%
DR11	100%
DR52	100%
DR53	100%

71 LABS REPORTING DQB1

DQB1*03	35%
DQB1*0301	58%
DQB1*030101	7%
DQB1*03	100% TOTAL

DQB1*03	25%
DQB1*0302	62%
DQB1*030201	13%
DQB1*03	100% TOTAL

23 LABS REPORTING DQA1

DQA1*03	9%
DQA1*0301	87%
DQA1*030101	4%
DQA1*03	100% TOTAL

DQA1*05	22%
DQA1*0505/09	43%
DQA1*0505	35%
DQA1*05	100% TOTAL

23 LABS REPORTING DPB1

DPB1*0201+	4%
DPB1*0201	74%
DPB1*020102	22%

DPB1*0402/*0602	17%
DPB1*0402	83%

DQ7	100%
DQ3	50%
DQ8	50%
DQ3	100% TOTAL



B-CELL LINE TER-436

CTR DIRNAME	DRB1	DRB1X	DRB3	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1X	METHOD
4079 Abbal, Michel	*0301	*1113		*0201	*0503					RSSO, P-SSP
5488 Adams, Sharon	*030101	*1113	*0202	*020101	*050301	*0104/05	*0501	*0202	*040101	RSSO, SSP, SBT
8062 Al-Attas, Rab	*03	*11		*02	*05					SSO
2020 Barnardo, Mar	*030101	*1113	*0202/05+	*020101	*050301	*0101/04/05+	*0501	*0202	*040101	SBT, P-SSP
774 Cecka, J. Mich	*0301/32/34+	*1113	*0202/23	*0201	*0503					SSP, SSOP
785 Chan, Soh Ha	*0301	*1113	*020201	*0201/04/05	*0503	*0101/04/05	*0501+			SBT
4492 Charron, D.	*0301	*1113	*0202	*0201	*0503	*0104	*0501	*0202	*0401	P-SSO, SSP
3224 Chen, Dongfen	*0301	*1113	*0202	*0201	*0503	*01	*0501			SBT, SSP, RSSO
8021 Clark, Brenda	*0301	*1113	*0107/*02	*0201	*0503			*0202	*0401	P-SSP, SSO
3632 Colombe, Beth	*0301	*1113	*0202	*0201	*0503					SSP
5130 Costeas, Paul	*0301	*1113	*0202	*0201	*0503	*0104	*0501			SSO, SSP
779 Daniel, Claud	*0301	*1113	*01-*03	*020101-05	*050101-05					P-SSP
5219 Daniel, Dolly	*03	*11/*14	**	*02	*05					P-SSOP
5323 Dhaliwal, J.S	*0301/28/32+	*1113	*0202/23	*02	*05					P-SSP
5891 Du, Keming	*0301/42	*1113		*0201	*0503					
856 Dupont, Bo	*0301/06/16+	*1113		*0201	*0503					SSO
5214 Eckels/CPMC	*03	*1113	*0202	*0201	*0503	*01	*0501	*0202	*0401	SSOP
3428 Eckels/Utah	*0301	*1113		*0201	*0503	*0101/04/05	*0501	*0102/*0202	*0401/*2402+	SSOP
2332 Elkhalfifa, Mo	*0301	*1113		*0201	*0503					
4251 Ellis, Thomas	*0301	*1113	*0202/12	*0201	*0503			*0202	*0401	P-SSO, SEQ
3135 Fischer, John	*0301	*1113	*0202	*0201	*0503			*0202	*0401	SBT, P-SSP
762 Fischer/Mayr	*0301	*1113	*0202	*0201	*0503	*01	*0501			RSSO, LBT, SSP+
792 Gandhi&Genco	*0301	*1113	*0202	*0201	*0503	*0104	*0501			P-SSO, SSP
8043 Gideon, Osna	*0301	*1113		*0201	*0503					SSP
9002 Gideon_LR	*03	*11		*02	*05					SSO, SSP
234 Gomez, Carmen	*03	*11	*02	*02	*05					SSOP
5195 Gomez, Carmen	*03	*1113	*0202	*02	*0503					SSOP
910 Hahn, Amy B.	*0301/32/34+	*1113	*0202/23	*0201	*0503					SSP
4691 Hajeer, Ali	*03	*11		*02	*05					
810 Hamdi, Nuha	*03010101	*111301		*0205	*050301					SSO
4269 Hanau, Daniel	*0301	*1113								P-RVSSO
1461 Hidajat, M.	*0301	*1113	*0202	*0201	*0503			*0202	*0401/*9901	SSO, SSP
2344 Hurley/Hartz	*03010101+	*111301/1302		*020101	*050301			*0202	*040101	SBT, SSOP
771 Israel, Shosh	*0301	*1113		*0201	*0503					RVSSO, SSP
9003 Israel_LR	*03	*11		*02	*05					SSO
748 Jaramillo, An	*03(DR17)	*11	**	*02	*05					P-SSP
859 Kamoun, Malek	*0301	*1113	*0202	*0201	*0503	*0101/04/05	*0501			P-SSO, SSP
797 Kato, Shunich	*0301	*1113		*0202/02/04	*0503					SSO, +SBT-DR
4337 Kim, Tai-Gyu	*0301	*1113		*0201	*0503			*0202	*0401	SBT
168 Klein, Tirza	*0301	*1113		*0201	*0503					P-SSO, SSP
9000 Klein_LR	*03	*11		*02	*05					P-SSO, SSP
87 Land, Geoffre	*0301	*1113	*0202	*0201	*0503	*0104/05	*0501	*0202	*0401/*2302N	SSO, SSP, SBT
725 Lardy, N.M.	*03	*11	**	*02	*05	*0104	*0501			SSO, SSP
278 Lee, Jar-How	*0301	*1113	*0202	*0201	*0503	*0101/04/05	*0501	*0202	*0401	RVSSOP, SSP
640 Lee, Kyung Wh	*0301	*1113		*0201	*0503	*010401	*050101			P-SBT
6649 Lim, Young Ae	*03	*14	**							P-SSP
731 Loewenthal, R	*030101	*1113		*0201	*050301					SSO, SBT
759 Lopez-Cepero	*0301/16/18+	*1113		*0201	*0503	*0101/04/05	*0501	*0202/03	*0401/*2302N+	RVSSO
23 Mah, Helen	*0301	*1113	*0202	*0201	*0503	*0101/04/05	*0501			SSO, SSP
8029 Mani, Rama	*03	*11	**							P-SSP
206 McAlack-Bala	*03	*1113	*0202	*0201	*0503					SSO
9916 McIntyre, Joh	*030101	*1113	*0202	*0201	*0503					SSP, SBT
794 Merenmies, Ju	*0301	*1113	*0202	*0201	*0503			*0202	*0401	SBT, SSO, SSP
8042 Muncher, Lior	*0301	*1113		*0201	*0503					SSP, SSOP
8065 Padua, Flore	*03	*11	*01	*02	*05					SSP
5096 Park, Yun Mi	*03	*11								P-SSO
3648 Pereira, Noem	*0301/42/50	*1113		*020101	*050301					RVSSO, SBT

B-CELL LINE TER-436

CTR DIRNAME	DRB1	DRB1X	DRB3	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1X	METHOD
3966 Permpikul&Ve	*0301	*1113	*0202	*0201	*0503					P-SSP
2400 Phelan, Donna	*0301	*1113	*02	*0201	*0503					RSSO, SBT, SSP
3753 Reed, Elaine	*0301/42	*1113	*0202	*0201	*0503	*0101/04/05	*0501			SBT, SSO
3798 Reinsmoen, N	*030101	*1113	*0202	*0201	*050301	*0104	*0501	*0202	*0401/*2302N	SSP, SSO, SBT
1160 Rosen-Bronso	*0301	*11	*02	*02	*05					RVSSO, SSP
793 Rubocki, Rona	*03(DR17)	*11	**	*02	*05					P-SSP
3519 Semana, Gilbe	*0301	*1113	*0202	*0201	*0503			*0202	*0401	SBT, P-SSP
8001 Sheikh, Maqso	*0301	*1113	*0202	*0201	*0503					RVSSOP, SSP
735 Smith/MI	*0301/42	*1113	*0202	*0201	*0503	*0101/04/05+	*0501	*0202	*0401	SEQ, SSP, RSSO
746 Stamm, Luz	*0301	*1113	*02	*0201	*0503					RSSO, SSP, SBT
13 Tagliere, Jac	*0301	*1113	*0202	*0201	*0503					SSP
747 Tiercy, Jean-	*03010101+	*111301/1302	*0202	*0201	*050301			*0202	*040101	
5451 Tilanus, Marc	*0301	*1113	*020201	*020101	*050301	*010401	*050101	*0202	*040101	SBT
4021 Trachtenberg	*03	*11	*02	*0201	*0503					RVSSOP
5462 Turner, E.V.	*0301	*1113	*0202/22+	*0201	*0503	*0101/04/05	*0501	*0202	*0401/*2302N	SEQ, SSO, SSP
5642 Varnavidou-N	*0301	*1113	**	*0201	*050301					P-SSP
3511 Zeevi, Adrian	*0301	*1113	*0202	*0201	*0503	*0104/05	*0501	*0202	*0401	SSP, RVSSOP

CTR DIRNAME	DR17	DR11	DR52	DQ2	DQ1	OTH1	OTH2
4492 Charron, D.	NT						
234 Gomez, Carmen	+	+	+	+	DQ5		
5195 Gomez, Carmen	+	+	+	+	DQ5		
910 Hahn, Amy B.	+	+	+	+	+	DR18, DR14	
4908 Kvam, Vonnett	+	+	+	+	+		
54 McAlack, Robe	+	+	+	+	+		
8004 Pais, Maria L	+	+	+	+	DQ6	DR14	
793 Rubocki, Rona	+	+	+	+	+		
8063 Shai, Isaac	DR3	+	+	+	DQ5	DR10	

B-CELL LINE TER-436 (Caucasian)

73 DNA LABS

73 LABS REPORTING DRB1

DRB1*03	37%
DRB1*0301	54%
DRB1*030101	8%
DRB1*03010101	1%
DRB1*03	100% TOTAL

DRB1*11	19%
DRB1*1113	77%
DRB1*111301	1%
DRB1*11	97% TOTAL

50 LABS REPORTING DRB3

DRB3*+	18%
DRB3*0202	54%
DRB3*020201	4%
DRB3*02	22%

8 SEROLOGY LABS

DR3	12%
DR17	88%
DR3	100% TOTAL

DR11	88%
DR52	100%

70 LABS REPORTING DQB1

DQB1*02	24%
DQB1*0201	67%
DQB1*020101	7%
DQB1*0205	2%
DQB1*02	100% TOTAL

DQB1*05	20%
DQB1*0503	66%
DQB1*050301	14%
DQB1*05	100% TOTAL

23 LABS REPORTING DQA1

DQA1*01	22%
DQA1*0101/04/05	35%
DQA1*0104/05	13%
DQA1*0104	22%
DQA1*010401	8%
DQA1*01	100% TOTAL

DQA1*05	4%
DQA1*0501	87%
DQA1*050101	9%
DQA1*05	100% TOTAL

22 LABS REPORTING DPB1

DPB1*0202+	9%
DPB1*0202	91%
DPB1*0401/*2302N	18%
DPB1*0401+	9%
DPB1*0401	50%
DPB1*040101	23%

DQ2	100%
DQ1	50%
DQ5	38%
DQ6	12%
DQ1	100% TOTAL

INVESTIGATOR		DNA EXTRACT #477 (Caucasian)						method
CTR	NAME	A1	A2	B1	B2	C1	C2	
5488	Adams, Sharon	*020101	*290201	*2709	*440301	*010201	*160101	RSSO, SSP, SBT
745	Anthony Nola	*020101	*290201	*2709	*440301	*010201	*160101	SSO, SSP, SBT
4345	Blasczyk, Rai	*0201/01L/09/43N+	*2902	*2709	*4403	*0102/25	*1601	
5106	Brown, Colin	*02	*29	*2709	*44	*01	*1601/08	
785	Chan, Soh Ha	*02	*2902/06/09	*2709	*4403	*0102/10/25/31	*1601	SBT
3224	Chen, Dongfen	*0201	*2902	*2709	*4403	*0102	*1601	SBT, RVSSOP
8021	Clark, Brenda	*020101-0104/0106+	*2901-12+	*2703/07/09+	*4403/04/07+	*0102/03/06-11+	*1601/02/06+	
5219	Daniel, Dolly	*02	*29	*27	*44			PCR-SSOP
5323	Dhaliwal, J.	*02	*29	*27	*44	*01	*16	PCR-SSP
5891	Du, Keming	*0201	*2902	*2709	*4403	*0102	*1601	PCR-SBT
3186	Dunckley, Hea	*02	*29	*27	*44	*01	*16	SSP, RSSO-A, B
3766	Dunn, Paul	*02	*29	*2709/46	*44	*01	*16	SSO
3428	Eckels/Utah	*02	*2902/06/10	*2709/46	*4403	*0102/17/25	*1601	SSOP
2332	Elkhalifa, Mo	*02	*29	*27	*44	*01	*16	SSP
4251	Ellis, Thomas	*0201	*2902	*2709	*4403	*0102	*1601	PCR-SSO, SEQ
762	Fischer&Mayr	*0201	*2902	*2709	*4403	*0102/25	*1601	RSSO, SSP, SBT
3135	Fischer, John	*0201/01L	*2902	*2709	*4403	*0102	*1601	PCR-SSO, SBT
234	Gomez, Carmen	*02	*29	*27	*44	*01	*16	SSP
5195	Gomez, Carmen	*02	*29	*2709	*44	*01	*16	SSOP
4691	Hajeer, Ali	*02	*29	*27	*44	*01	*16	SSO
810	Hamdi, Nuha	*02010101	*29010101	*2709	*440301	*010201	*160101	SSO
1461	Hidajat, Meli	*0201	*2902	*2709	*4403	*0102	*1601	SSO, SSP
615	Holdsworth, R	*0201/09/43N/66/75+	*2902	*2709	*4403	*0102/25	*1601	SBT
2344	Hurley&Hartz	*02010101/010102L+	*290201	*2709	*440301/0303/0304	*010201/0202/25	*160101	SBT, SSOP
748	Jaramillo, An	*02	*29	*27	*44	*01	*16	SSOP
797	Kato, Shunich	*0201/01L	*2902	*2709	*4403	*0102	*1601	SSO, SBT
2847	Kihara, Masaa	*02	*29	*27	*44	*01	*16	RVSSO
87	Land, Geoff	*0201	*2902	*2709	*4403	*0102	*1601	
278	Lee, Jar-How	*0201/*9221/32/34+	*2902/10	*2709	*4403	*0102	*1601	SSO, SSP
640	Lee, Kyung Wh	*0201	*2902	*2709	*4403	*0102	*1601	PCR-SBT
4651	Leech, Stephe	*02	*29	*27	*44	*01	*16	SSO
1108	Linke, Robert	*02	*29	*27	*44	*01	*16	SSO
9916	McIntyre, Joh	*020101	*290201	*2709	*440301	*0102/25-33	*1601/13-18	SSP, SBT
794	Merenmies, Ju	*0201	*2902	*2709	*4403	*0102	*1601	SBT, SSO, SSP
8042	Muncher, Lior	*0201	*2902	*2709	*4403	*0102	*1601	SSOP, SSP
8022	Olerup, Olle	*0201	*2902	*2709	*4403	*0102	*1601	SSP
8065	Padua, Florec	*02	*29	*27	*44			SSP
5096	Park, Yun Mi	*02	*29	*27	*44			PCR-SSO
3648	Pereira, Noem	*0201/01L	*2902	*2709	*4403	*0102	*1601	RSSO, SSP, SBT
3966	Permpikul&Ve	*02	*29	*27	*44	*01	*16	PCR-SSP
2400	Phelan, Donna	*0201	*2902	*2709	*4403	*0102	*1601	RSSO, SBT, SSP
3753	Reed, Elaine	*0201/*9274	*2902/09	*2709	*4403	*0102/12	*1601/18	SBT
3625	Rees, Tracey	*02	*29	*27	*44	*01	*16	PCR-SSP, SBT
3798	Reinsmoen, N	*020101/01L	*290201	*2709	*440301	*010201	*160101	SSP, RSSO, SBT
1694	Sauer&Gottwa	*02	*29	*27	*44	*01	*16	SSP
3545	Scornik, Juan	*0201	*2902	*2709	*4403	*0102	*1601	SSOP, SBT
735	Smith, MI	*02	*29	*27	*44	*01	*16	RVSSOP, SSP
746	Stamm, Luz	*0201	*2902	*2709	*4403	*0102	*1601	RVSSO, SSP
13	Tagliere, Jac	*0201	*2902	*2709	*4403	*0102	*1601	
4021	Trachtenberg	*02	*29	*27	*44	*01	*16	RVSSO, SSP
5462	Turner, E.V.	*0201	*290201	*2709	*440301	*0102	*1601	SEQ, SSO, SSP
789	Walter Reed	*02	*29	*27	*44	*01	*16	PCR-SSP

INVESTIGATOR	DNA EXTRACT #478 (Japanese)						method
CTR NAME	A1	A2	B1	B2	C1	C2	
5488 Adams, Sharon	*020601	*240201	*070201/61	*5103	*070201/50	*140201	RSSO, SSP, SBT
745 Anthony Nola	*0206	*2402	*070201	*5103	*070201	*140201	SSO, SSP, SBT
4345 Blasczyk, Rai	*0206/*9226	*2402/02L/09N+	*0702/44/49N/58+	*5103	*0702/50/66/74	*1402	
5106 Brown, Colin	*0206	*2402	*0702	*5103	*0702	*1402	
785 Chan, Soh Ha	*02	*24	*0702/24/26/36+	*51/*56/*7802	*0702/37/50/51+	*1402/06/13	SBT
3224 Chen, Dongfen	*0206	*2402	*0702/61	*5103	*0702/50	*1402	SBT, RSSOP
8021 Clark, Brenda	*020101-0104/0106+	*2402/03/07+	*0702/04/10+	*510101-0103/0105+	*0702/03/08/10+	*1402/03/05+	
5219 Daniel, Dolly	*02	*24	*07	*51			PCR-SSOP
5323 Dhaliwal, J.	*02	*24	*07	*51	*07	*14	PCR-SSP
5891 Du, Keming	*0206	*2402	*0702	*5103	*0702	*1402	PCR-SBT
3186 Duncckley, Hea	*02	*24	*07	*51	*07	*14	SSP, RSSO-A, B
3766 Dunn, Paul	*02	*24	*07	*51	*07	*14	SSO
3428 Eckels/Utah	*0206/*9226/44/70	*24	*07	*51	*07	*1402	SSOP
2332 Elkhalfifa, Mo	*02	*24	*07	*51	*07	*14	SSP
4251 Ellis, Thomas	*0206	*2402	*0702/61	*5103	*0702/50	*1402	PCR-SSO, SEQ
762 Fischer&Mayr	*0206/*9226	*2402	*0702/44/49N/58+	*5103	*0702/50/66/74	*1402	RSSO, SSP, SBT
3135 Fischer, John	*0206	*2402	*0702	*5103	*0702	*1402	PCR-SSO, SBT
234 Gomez, Carmen	*02	*24	*07	*51	*07	*14	SSP
5195 Gomez, Carmen	*02	*24	*07	*51	*07	*14	SSOP
4691 Hajeer, Ali	*02	*24	*07	*51	*07	*14	SSO
810 Hamdi, Nuha	*020601	*24020101	*070201	*510101	*07020101	*140201	SSO
1461 Hidajat, Mela	*0206	*2402	*0702	*5103	*0702	*1402	SSO, SSP
615 Holdsworth, R	*0206/*9226	*2402/09N/11N+	*0702/44/49N/58+	*5103	*0702/50/66/74	*1402	SBT
2344 Hurley&Hartz	*020601/*9226	*24020101+	*070201/0206+	*5103	*07020101+	*140201	SBT, SSOP
748 Jaramillo, An	*02	*24	*07	*51	*07	*14	SSOP
797 Kato, Shunich	*0206	*2402	*0702/61	*5103	*0702/50	*1402	SSO, SBT
2847 Kihara, Masaa	*02	*24	*07	*51	*07	*14	RVSSO
87 Land, Geoff	*0206	*2402	*0702	*5101/03	*0702	*1402	
278 Lee, Jar-How	*0206/*9226	*2402/76/78/79+	*0702/61	*5103	*0702/61N/62	*1402/11	SSO, SSP
640 Lee, Kyung Wh	*0206/76	*2402/50	*0702/61	*5103	*0702/37/50	*1402/06	PCR-SBT
4651 Leech, Stephe	*02	*24	*07	*51	*07	*14	SSO
1108 Linke, Robert	*02	*24	*07	*51	*07	*14	SSO
9916 McIntyre, Joh	*020601	*24020101	*070201	*5103	*0702/5602/61N+	*1402/13/14	SSP, SBT
794 Merenmies, Ju	*0206	*2402	*0702/61	*5103	*0702/50	*1402	SBT, SSO, SSP
8042 Muncher, Lior	*0206	*2402	*0702	*5103	*0702	*1402	SSOP, SSP
8022 Olerup, Olle	*0206	*2402	*0702	*5103	*0702	*1402	SSP
8065 Padua, Florec	*02	*24	*07	*51			SSP
5096 Park, Yun Mi	*02	*24	*07	*51			PCR-SSO
3648 Pereira, Noem	*0206	*2402	*0702/61	*5103	*0702/50//*0751	*1402//*1413	RSSO, SSP, SBT
3966 Permpikul&Ve	*02	*24	*07	*51	*07	*14	PCR-SSP
2400 Phelan, Donna	*0206	*2402	*0702/61	*5103	*0702	*1402	RSSO, SBT, SSP
3753 Reed, Elaine	*0206/76/*9242	*2402/13/50	*0702/61	*5103	*0702/37/50/51	*1402/06/13	SBT
3625 Rees, Tracey	*02	*24	*07	*51	*07	*14	PCR-SSP, SBT
3798 Reinsmoen, N	*020601	*240201/01L	*070201/61	*5103	*070201/50	*140201	SSP, RSSO, SBT
1694 Sauer&Gottwa	*02	*24	*07	*51	*07	*14	SSP
3545 Scornik, Juan	*0206	*2402	*0702/61	*5103	*0702/50	*1402	SSOP, SBT
735 Smith, MI	*02	*24	*07	*51	*07	*14	RVSSOP, SSP
746 Stamm, Luz	*0206	*2402	*0702	*5103	*0702	*1402	RVSSO, SSP
13 Tagliere, Jac	*0206	*2402	*0702	*5103	*0702	*1402	
4021 Trachtenberg	*02	*24	*07	*51	*07	*14	RVSSO, SSP
5462 Turner, E.V.	*020601	*240201	*0702/61	*5103	*0702	*1402	SEQ, SSO, SSP
789 Walter Reed	*02	*24	*07	*51	*07	*14	PCR-SSP

INVESTIGATOR		DNA EXTRACT #479 (Caucasian)						
CTR	NAME	A1	A2	B1	B2	C1	C2	method
5488	Adams, Sharon	*290201	*300201	*140201	*3702	*020202	*0802	RSSO, SSP, SBT
745	Anthony Nola	*290201	*300201	*140201	*3702	*020202	*080201	SSO, SSP, SBT
4345	Blasczyk, Rai	*2902	*3002	*1402	*3702	*0202	*0802	
5106	Brown, Colin	*29	*3002/10	*1402	*3702	*02	*0802	
785	Chan, Soh Ha	*2902/06	*3002	*1402	*3702	*0202/27/29	*05/*08	SBT
3224	Chen, Dongfen	*2902	*3002	*1402	*3702	*0202	*0802	SBT, RVSSOP
8021	Clark, Brenda	*2901-12+	*3001-0202/0204+	*1402-04/09	*3702	*0202/04-15+	*0802/04/05+	
5219	Daniel, Dolly	*29	*30	*14	*37			PCR-SSOP
5323	Dhaliwal, J.	*29	*30	*14	*37	*02	*08	PCR-SSP
5891	Du, Keming	*2902	*3002	*1402	*3702	*0202	*0802	PCR-SBT
3186	Dunckley, Hea	*29	*30	*1402/03/09	*3702	*02	*08	SSP, RSSO-A, B
3766	Dunn, Paul	*29	*3002/10/12	*1402/09	*3702	*02	*0802/05/17	SSO
3428	Eckels/Utah	*2902/06/10	*3002	*1402/09	*3702	*0202	*0802/05/17	SSOP
2332	Elkhalifa, Mo	*29	*30	*14	*37	*02	*08	SSP
4251	Ellis, Thomas	*2902	*3002	*1402	*3702	*0202	*0802	PCR-SSO, SEQ
762	Fischer&Mayr	*2902	*3002	*1402	*3702	*0202	*0802	RSSO, SSP, SBT
3135	Fischer, John	*2902	*3002	*1402	*3702	*0202	*0802	PCR-SSO, SBT
234	Gomez, Carmen	*29	*30	*14	*37	*02	*08	SSP
5195	Gomez, Carmen	*29	*30	*14	*3702	*02	*08	SSOP
4691	Hajeer, Ali	*29	*30	*14	*37	*02	*05	SSO
810	Hamdi, Nuha	*29010101	*300201	*140201	*3702	*020202	*0802	SSO
1461	Hidajat, Mela	*2902	*3002	*1402	*3702	*0202	*0802	SSO, SSP
615	Holdsworth, R	*2902	*3002/33	*1402	*3702	*0202/29	*0802	SBT
2344	Hurley&Hartz	*290201	*300201/0202/33	*140201	*3702	*020202/29	*080201	SBT, SSOP
748	Jaramillo, An	*29	*30	*1402	*37	*02	*08	SSOP
797	Kato, Shunich	*2902	*3002	*1402	*3702	*0202	*0802	SSO, SBT
2847	Kihara, Masaa	*29	*30	*14	*37	*02	*08	RVSSO
87	Land, Geoff	*2902	*3002	*1402	*3702	*0202	*0802	
278	Lee, Jar-How	*2902/10	*3002	*1402/09	*3702	*0202	*0802/17	SSO, SSP
640	Lee, Kyung Wh	*2902	*3002	*1402	*3702	*0202	*0802	PCR-SBT
4651	Leech, Stephe	*29	*30	*(B65)	*37	*02	*08	SSO
1108	Linke, Robert	*29	*30	*14	*37	*02	*08	SSO
9916	McIntyre, Joh	*290201	*300201	*140201	*3702	*0202/24/25Q/28+	*0802/17/19+	SSP, SBT
794	Merenmies, Ju	*2902	*3002	*1402	*3702	*0202	*0802	SBT, SSO, SSP
8042	Muncher, Lior	*2902	*3002	*1402	*3702	*0202	*0802	SSOP, SSP
8022	Olerup, Olle	*2902	*3002	*1402	*3702	*0202	*0802	SSP
8065	Padua, Florec	*29	*30	*14(B65)	*3702			SSP
5096	Park, Yun Mi	*29	*30	*14	*37			PCR-SSO
3648	Pereira, Noem	*2902	*3002	*1402	*3702	*0202	*0802	RSSO, SSP, SBT
3966	Permpikul&Ve	*29	*30	*14	*37	*02	*08	PCR-SSP
2400	Phelan, Donna	*2902	*3002	*1402	*3702	*0202	*0802	RSSO, SBT, SSP
3753	Reed, Elaine	*2902	*3002	*1402	*3702	*0202/27	*0802/*0501	SBT
3625	Rees, Tracey	*29	*30	*1402	*3702	*02	*08	PCR-SSP, SBT
3798	Reinsmoen, N	*290201	*300201	*140201	*3702	*020202	*0802	SSP, RSSO, SBT
1694	Sauer&Gottwa	*29	*30	*14	*37	*02	*08	SSP
3545	Scornik, Juan	*2902	*3002	*1402	*3702	*0202	*0802	SSOP, SBT
735	Smith/MI	*29	*30	*14(B65)	*37	*02	*08	RVSSOP, SSP
746	Stamm, Luz	*2902	*3002	*1402	*3702	*0202	*0802	RVSSO, SSP
13	Tagliere, Jac	*2902	*3002	*1402	*3702	*0202	*0802	
4021	Trachtenberg	*29	*30	*14	*3702	*02	*08	RVSSO, SSP
5462	Turner, E.V.	*290201	*300201	*140201	*3702	*0202	*0802	SEQ, SSO, SSP
789	Walter Reed	*29	*30	*14	*37	*02	*08	PCR-SSP

INVESTIGATOR		DNA EXTRACT #480 (Korean)		B1	B2	C1	C2	method
CTR	NAME	A1	A2					
5488	Adams, Sharon	*290201	*680101	*2705/13	*440301	*020202/27	*160101/02	RSSO, SSP, SBT
745	Anthony Nola	*290201	*680101	*2705	*4403	*020202	*160101	SSO, SSP, SBT
4345	Blasczyk, Rai	*2902	*6801	*2705/13	*4403	*0202	*1601	
5106	Brown, Colin	*2902	*6801	*2705	*4403	*0202	*1601	
785	Chan, Soh Ha	*2902/06	*6801	*2705/13	*4403	*0202/27/29	*1601/02	SBT
3224	Chen, Dongfen	*2902	*6801	*2705	*4403	*0202	*1601	SBT, RVSSOP
8021	Clark, Brenda	*2901-12+	*6801/02/06+	*2701/02/05/08+	*4403/04/07+	*0202/04-15+	*1601/08/10+	
5219	Daniel, Dolly	*29	*68	*27	*44			PCR-SSOP
5323	Dhaliwal, J.	*29	*68	*27	*44	*02	*16	PCR-SSP
5891	Du, Keming	*2902	*6801	*2705	*4403	*0202	*1601	PCR-SBT
3186	Dunckley, Hea	*29	*68	*27	*44	*02	*16	SSP, RSSO-A, B
3766	Dunn, Paul	*29	*68	*27	*44	*02	*16	SSO
3428	Eckels/Utah	*2902/06/10	*6801/43	*2705/13/50	*4403/37	*0202/27	*1601/02/12	SSOP
2332	Elkhalifa, Mo	*29	*68	*27	*44	*02	*16	SSP
4251	Ellis, Thomas	*2902	*6801	*2705/13	*4403	*0202	*1601	PCR-SSO, SEQ
762	Fischer&Mayr	*2902	*6801	*2705/13	*4403	*0202	*1601	RSSO, SSP, SBT
3135	Fischer, John	*2902	*6801	*2705	*4403	*0202	*1601	PCR-SSO, SBT
234	Gomez, Carmen	*29	*68	*27	*44	*02	*16	SSP
5195	Gomez, Carmen	*29	*68	*27	*44	*02	*16	SSOP
4691	Hajeer, Ali	*29	*68	*27	*44	*02	*16	SSO
810	Hamdi, Nuha	*29010101	*680101	*2703	*440301	*020202	*160101	SSO
1461	Hidajat, Mela	*2902	*6801	*2705	*4403	*0202	*1601	SSO, SSP
615	Holdsworth, R	*2902	*6801	*2705/13	*4403	*0202/29	*1601	SBT
2344	Hurley&Hartz	*290201	*680101/0107	*270502/0504/13	*440301/0303/0304	*020202/29	*160101	SBT, SSOP
748	Jaramillo, An	*29	*68	*27	*44	*02	*16	SSOP
797	Kato, Shunich	*2902	*6801	*2705/13	*4403	*0202/27	*1601/02	SSO, SBT
2847	Kihara, Masaa	*29	*68	*27	*44	*02	*16	RVSSO
87	Land, Geoff	*2902	*6801	*2705	*4403	*0202	*1601	
278	Lee, Jar-How	*2902/10	*6801/43	*2705	*4403	*0202	*1601	SSO, SSP
640	Lee, Kyung Wh	*2902	*6801	*2705/13	*4403	*0202/27	*1601/02	PCR-SBT
4651	Leech, Stephe	*29	*68	*27	*44	*02	*16	SSO
1108	Linke, Robert	*29	*68	*27	*44	*02	*16	SSO
9916	McIntyre, Joh	*290201	*680101	*270502	*440301	*0202/24/25Q/28+	*1601/13-17	SSP, SBT
794	Merenmies, Ju	*2902	*6801	*2705/13	*4403	*0202	*1601	SBT, SSO, SSP
8042	Muncher, Lior	*2902	*6801	*2705	*4403	*0202	*1601	SSOP, SSP
8022	Olerup, Olle	*2902	*6801	*2705	*4403	*0202	*1601	SSP
8065	Padua, Florec	*29	*68	*27	*44			SSP
5096	Park, Yun Mi	*29	*68	*27	*44			PCR-SSO
3648	Pereira, Noem	*2902	*6801	*2705/13	*4403	*0202	*1601	RSSO, SSP, SBT
3966	Permpikul&Ve	*29	*68	*27	*44	*02	*16	PCR-SSP
2400	Phelan, Donna	*2902	*6801	*2705/13	*4403	*0202	*1601	RSSO, SBT, SSP
3753	Reed, Elaine	*2902	*6801	*2705/13	*4403	*0202/27	*1601/02	SBT
3625	Rees, Tracey	*29	*68	*27	*44	*02	*16	PCR-SSP, SBT
3798	Reinsmoen, N	*290201	*680101	*2705/13	*4403	*020202	*160101	SSP, RSSO, SBT
1694	Sauer&Gottwa	*29	*68	*27	*44	*02	*16	SSP
3545	Scornik, Juan	*2902	*6801	*2705/13	*4403	*0202	*1601	SSOP, SBT
735	Smith, MI	*29	*68	*27	*44	*02	*16	RVSSOP, SSP
746	Stamm, Luz	*2902	*6801	*2705	*4403	*0202	*1601	RVSSO, SSP
13	Tagliere, Jac	*2902	*6801	*2705	*4403	*0202	*1601	
4021	Trachtenberg	*29	*68	*27	*44	*02	*16	RVSSO, SSP
5462	Turner, E.V.	*290201	*680101	*2705/13	*440301	*0202	*1601	SEQ, SSO, SSP
789	Walter Reed	*29	*68	*27	*44	*02	*16	PCR-SSP

## SUMMARY

<p>Extract 477 (Caucasian)</p> <p><u>52 labs</u></p> <p>A*02 56%</p> <p>A*0201 36%</p> <p>A*020101 6%</p> <p>A*02010101 2%</p> <p>A*02 100% TOTAL</p> <p>A*29 50%</p> <p>A*29010101 2%</p> <p>A*2902 36%</p> <p>A*290201 12%</p> <p>A*29 100% TOTAL</p> <p><u>52 labs</u></p> <p>B*27 40%</p> <p>B*2709 60%</p> <p>B*27 100% TOTAL</p> <p>B*44 42%</p> <p>B*4403 46%</p> <p>B*440301 12%</p> <p>B*44 100% TOTAL</p> <p><u>49 labs</u></p> <p>Cw*01 47%</p> <p>Cw*0102/25 8%</p> <p>Cw*0102 37%</p> <p>Cw*010201 8%</p> <p>Cw*01 100% TOTAL</p> <p>Cw*16 43%</p> <p>Cw*1601 47%</p> <p>Cw*160101 10%</p> <p>Cw*16 100% TOTAL</p>	<p>Extract 478 (Japanese)</p> <p><u>52 labs</u></p> <p>A*02 48%</p> <p>A*0206/*9226 8%</p> <p>A*020601/*9226 2%</p> <p>A*0206 32%</p> <p>A*020601 10%</p> <p>A*02 100% TOTAL</p> <p>A*24 56%</p> <p>A*2402 36%</p> <p>A*240201 4%</p> <p>A*24020101 4%</p> <p>A*24 100% TOTAL</p> <p><u>52 labs</u></p> <p>B*07 52%</p> <p>B*0702/61 21%</p> <p>B*070201/61 4%</p> <p>B*0702 17%</p> <p>B*070201 6%</p> <p>B*07 100% TOTAL</p> <p>B*51 44%</p> <p>B*510101 2%</p> <p>B*5103 52%</p> <p>B*51 98% TOTAL</p> <p><u>49 labs</u></p> <p>Cw*07 59%</p> <p>Cw*0702/50 10%</p> <p>Cw*070201/50 4%</p> <p>Cw*0702 23%</p> <p>Cw*070201 2%</p> <p>Cw*07020101 2%</p> <p>Cw*07 100% TOTAL</p> <p>Cw*14 49%</p> <p>Cw*1402 41%</p> <p>Cw*140201 10%</p> <p>Cw*14 100% TOTAL</p>	<p>Extract 479 (Caucasian)</p> <p><u>52 labs</u></p> <p>A*29 48%</p> <p>A*29010101 2%</p> <p>A*2902 38%</p> <p>A*290201 12%</p> <p>A*29 100% TOTAL</p> <p>A*30 46%</p> <p>A*3002 42%</p> <p>A*300201 12%</p> <p>A*30 100% TOTAL</p> <p><u>52 labs</u></p> <p>B*14 40%</p> <p>B*1402 46%</p> <p>B*140201 14%</p> <p>B*14 100% TOTAL</p> <p>B*37 27%</p> <p>B*3702 73%</p> <p>B*37 100% TOTAL</p> <p><u>49 labs</u></p> <p>Cw*02 49%</p> <p>Cw*0202 43%</p> <p>Cw*020201/50 8%</p> <p>Cw*02 100% TOTAL</p> <p>Cw*08 41%</p> <p>Cw*0802 49%</p> <p>Cw*080201 4%</p> <p>Cw*08 94% TOTAL</p>	<p>Extract 480 (Korean)</p> <p><u>52 labs</u></p> <p>A*29 46%</p> <p>A*29010101 2%</p> <p>A*2902 40%</p> <p>A*290201 12%</p> <p>A*29 100% TOTAL</p> <p>A*68 44%</p> <p>A*6801 44%</p> <p>A*680101 12%</p> <p>A*68 100% TOTAL</p> <p><u>52 labs</u></p> <p>B*27 42%</p> <p>B*2705/13 31%</p> <p>B*2703 2%</p> <p>B*2705 23%</p> <p>B*270502 2%</p> <p>B*27 100% TOTAL</p> <p>B*44 42%</p> <p>B*4403 50%</p> <p>B*440301 8%</p> <p>B*44 100% TOTAL</p> <p><u>49 labs</u></p> <p>Cw*02 45%</p> <p>Cw*0202/27 8%</p> <p>Cw*020202/27 2%</p> <p>Cw*0202 39%</p> <p>Cw*020202 6%</p> <p>Cw*02 100% TOTAL</p> <p>Cw*16 41%</p> <p>Cw*1601/02 8%</p> <p>Cw*160101/02 2%</p> <p>Cw*1601 41%</p> <p>Cw*160101 8%</p> <p>Cw*16 100% TOTAL</p>
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INVESTIGATOR		CELL NO.1389 (Black)		B1	B2	C1	C2	method
CTR	NAME	A1	A2					
745	Anthony Nola	*300201	*7401	*140201	*8101	*080201	*0804	SSO, SSP, SBT
5106	Brown, Colin	*3002/10	*7401/02/09/11	*1402	*8101-03	*0802/15	*0804/13	P-RVSSOP, SBT
774	Cecka, J. Mich	*30	*74	*1402-04/06	*8101	*08		SSP, SSOP
5232	Charlton, Ron	*3002	*7401	*1402	*8101	*0802	*0804	SSP, RVSSO
4492	Charron, D.	NT						
4492	Charron_LR	*30	*74	*14	*81	*08	*08	PCR-SSO
798	Claas, F.H.J.	*300201	*7401	*140201	*8101	*080201	*0804	SBT, SSP
3632	Colombe, Beth	*3002	*7401	*1402	*8101	*0802	*0804	SSP
5130	Costeas, Paul	*3002	*7401	*1402	*8101	*0802	*0804	SSO, SSP
779	Daniel, Claud	*30	*74	*14 (B65)	*81	*08		PCR-SSP
3186	Dunckley, Hea	*30	*74	*1402/03/09	*81	*08		SSP, RVSSO-A, B
3766	Dunn, Paul	*3002/10/12	*7401/02/09/11	*1402/09	*8101-03	*08	*0804/13	SSO
856	Dupont, Bo	*3002/01/04/10+	*3203	*1402/04	*8101-04N	*0802/07/15/17+	*0801/03/04/08+	SSO
5214	Eckels/CPMC	*30	*74	*14 (B65)	*81	*08	*08	
2332	Elkhalifa, Mo	*30	*74	*14	*81	*08		SSP
4251	Ellis, Thomas	*3002	*7401/02	*1402	*8101/02	*0802	*0804	PCR-SSO, SEQ
762	Fischer&Mayr	*3002	*7401	*1402	*8101/03	*0802	*0804	RSSO, SBTex1-3
792	Gandhi&Genco	*3002	*7401	*1402	*8101	*0802	*0804	SSO, SSP
8043	Gideon, Osna	*3002/13	*7401	*1402/09	*8101	*0802	*0804/13	SSOP, SSP
810	Hamdi, Nuha	*300201	*7401	*140201	*8101	*0802	*0813	SSO
4269	Hanau, Daniel	*30	*74	*14	*81	*08		PCR-SSP
741	Harville, Ter	*3002	*7401	*1402	*8101	*0520	*0804	SSO
3808	Hogan, Patric	*30	*74	*1402/03/09/11/15+	*81	*08		
771	Israel, Shosh	*3002	*7401	*1402	*8101	*0802	*0804	SBT, SSP
9003	Israel_LR	*30	*74	*14	*81	*08		SSO
859	Kamoun, Malek	*3002	*7401	*1402	*8101-03	*0802	*0804	
4337	Kim, Tai-Gyu	*3002	*7401/02	*1402	*8101	*0802	*0804	SBT
168	Klein, Tirza	*30	*74	*14	*81	*08	*08	
278	Lee, Jar-How	*3002	*7401	*1402/09	*8101	*0802/17/18	*0804/13	SSP, RVSSOP
6649	Lim, Young Ae	*30	*74	*14 (B65)	*81	*08		PCR-SSP
731	Loewenthal, R	*300201	*7401/02	*140201	*8101/02	*080201	*0804	SBT
759	Lopez-Cepero	*3002/10/12	*7401/02/09/11	*1402/09	*8101-03	*0802/05/15	*0804/13	RVSSO
23	Mah, Helen	*3002/10/12	*74	*1402/09	*8101-03	*0802/05/15/17+	*0804/13	SSO
8029	Mani, Rama	*30	*74	*14	*81			SSP
206	McAlack-Bala	*30	*74	*1402/09	*81	*08	*08	RVSSOP
4336	Park, Myoung	*30	*74	*1402/04	*81	*08		RVSSO
16	Pidwell/Aska	*300201	*7401/02	*140201	*8101/02	*080201	*0804	PCR-RSSOP, SBT
3625	Rees, Tracey	*30	*74	*14 (B65)	*81	*08		PCR-SSP
5200	Reinke, Denni	*30	*74	*14 (B65)	*81	*08		SSP
1160	Rosen-Bronso	*30	*74	*14	*81	*08		RVSSO, SSP
793	Rubocki, Ron	*30	*74	*14 (B65)	*81	*08		PCR-SSP
4948	Sage, Deborah	*3002	*7402	*1402	*8101-03	*0802	*0804	
3519	Semana, Gilbe	*3002	*7401/02	*1402	*8101	*0802	*0804	SBT
8001	Sheikh, Maqso	*30	*74	*1402	*81	*08		SSP, RVSSOP
769	Tavoularis, S	*3002	*7401	*1402	*8101	*0802	*0804	SSO, SBT, SSP
747	Tiercy, Jean-	*3002/33	*7401	*140201	*8101-03	*080201	*0804	P-SSO, SSP, SBT
5451	Tilanus, Marc	*300201	*7401	*140201	*8101	*080201	*0804	SBT
5462	Turner, E.V.	*3002	*7401	*1402	*8101	*0802	*0804/13	SEQ, SSO, SSP

INVESTIGATOR	CELL NO.1390 (Hispanic)		B1	B2	C1	C2	method
CTR NAME	A1	A2					
745 Anthony Nola	*030101	*24020101	*0702	*3801	*0702	*1203	SSO, SSP, SBT
5106 Brown, Colin	*0301	*2402	*0702	*3801	*0702/50	*1203	P-RVSSOP, SBT
774 Cecka, J. Mich	*03	*24	*07	*38	*07	*12	SSP, SSOP
5232 Charlton, Ron	*0301	*2402	*0702	*3801	*0702	*1203	SSP, RVSSO
4492 Charron, D.	NT						
4492 Charron_LR	*03	*24	*07	*38	*07	*12	PCR-SSO
798 Claas, F.H.J.	*0301	*24020101	*070201	*380101	*0702	*12030101	SBT, SSP
3632 Colombe, Beth	*0301	*2402	*0702	*3801	*0702	*1203	SSP
5130 Costeas, Paul	*0301	*2402	*0702	*3801	*0702	*1203	SSO, SSP
779 Daniel, Claud	*03	*24	*07	*38	*07	*12	PCR-SSP
3186 Dunckley, Hea	*03	*24	*07	*38	*07	*12	SSP, RVSSO-A, B
3766 Dunn, Paul	*03	*24	*07	*38	*07	*12	SSO
856 Dupont, Bo	*0301+	*2402+/57	*0702+	*3801/09/12-14	*0702/10/17/19+	*1203/06/07/12+	SSO
5214 Eckels/CPMC	*03	*24	*07	*38	*07	*12	
2332 Elkhalfifa, Mo	*03	*24	*07	*38	*07	*12	SSP
4251 Ellis, Thomas	*0301	*2402	*0702/61	*3801	*0702/50	*1203	PCR-SSO, SEQ
762 Fischer&Mayr	*0301	*2402	*0702/44/49N/58+	*3801	*0702/50/66/74	*1203	RSSO, SBTex1-3
792 Gandhi&Genco	*0301	*2402	*0702	*3801	*0702	*1203	SSO, SSP
8043 Gideon, Osna	*0301	*2402	*0702	*3801	*0702	*1203	SSOP, SSP
810 Hamdi, Nuha	*03010101	*24020101	*070201	*380101	*07020101	*12030101	SSO
4269 Hanau, Daniel	*0301	*2402	*07	*3801	*0702	*1203	PCR-SSP, SBT
741 Harville, Ter	*0301	*2402	*0702	*3801	*0702	*1203	SSO
3808 Hogan, Patric	*03	*24	*07	*38	*07	*12	
771 Israel, Shosh	*0301	*2402	*0702	*3801	*0702	*1203	SBT, SSP
9003 Israel_LR	*03	*24	*07	*38	*07	*12	SSO
859 Kamoun, Malek	*0301	*2402	*0702	*3801	*0702	*1203	
4337 Kim, Tai-Gyu	*0301/03N	*2402/09N	*0702	*3801	*0702	*1203	SBT
168 Klein, Tirza	*03	*24	*07	*38	*07	*12	
278 Lee, Jar-How	*0301/46	*2402/78/95	*0702/22/58/59/61	*3801/12	*0701/61N/62	*1203	SSP, RVSSOP
6649 Lim, Young Ae	*03	*24	*07	*38	*07	*12	PCR-SSP
731 Loewenthal, R	*030101	*240201	*070201/61	*380101	*070201/50	*120301	SBT
759 Lopez-Cepero	*0301/04/07/08+	*2402/05/07/15+	*0702/07/10/21/22+	*3801/09/12/16+	*0702/13/29/38+	*1203/06/07/12+	RVSSO
23 Mah, Helen	*03	*24	*07	*38	*07	*12	SSO
8029 Mani, Rama	*03	*24	*07	*38			SSP
206 McAlack-Bala	*03	*24	*07	*38	*07	*12	RVSSOP
4336 Park, Myoung	*03	*24	*07	*38	*07	*12	RVSSO
16 Pidwell/Aska	*030101	*240201	*070201/61//*0791	*380101//*3814	*070201/50	*120301	PCR-RSSOP, SBT
3625 Rees, Tracey	*03	*24	*07	*38	*07	*12	PCR-SSP
5200 Reinke, Denni	*03	*24	*07	*38	*07	*12	SSP
1160 Rosen-Bronso	*03	*24	*07	*38	*07	*12	RVSSO, SSP
793 Rubocki, Ron	*03	*24	*07	*38	*07	*12	PCR-SSP
4948 Sage, Deborah	*0301/07/17	*2402/21/56	*0702/44/49N/58+	*3801	*0702/50/60/74	*1203	
3519 Semana, Gilbe	*0301	*2402	*0702	*3801	*0702	*1203	SBT
8001 Sheikh, Maqso	*03	*24	*07	*38	*07	*12	SSP, RVSSOP
769 Tavoularis, S	*0301	*2402	*0702/61	*3801	*0702	*1203	SSO, SBT, SSP
747 Tiercy, Jean-	*0301	*2402	*0702	*380101	*0702	*1203	P-SSO, SSP, SBT
5451 Tilanus, Marc	*030101	*24020101	*070201	*380101	*070201	*120301	SBT
5462 Turner, E.V.	*0301	*2402	*0702/61/91/93	*3801/14	*0702	*1203	SEQ, SSO, SSP

INVESTIGATOR		CELL NO.1391 (Black)		B1	B2	C1	C2	method
CTR	NAME	A1	A2					
745	Anthony Nola	*030101	*6602	*570301	*580101	*0718	*0701/18	SSO, SSP, SBT
5106	Brown, Colin	*03	*6602	*5703	*58	*07		P-RVSSOP, SBT
774	Cecka, J. Mich	*03	*6602/03	*5703/17	*5801	*07		SSP, SSOP
5232	Charlton, Ron	*0301	*6602	*5703	*5801	*0718	*0701	SSP, RVSSO
4492	Charron, D.	*0301/47/51-53+	*6602	*5703	*5801/16/22-24	*0718	*0701/18/77/78+	PCR-SSP
4492	Charron_LR	*03	*6602	*57	*58	*07		PCR-SSO
798	Claas, F.H.J.	*0301	*6602	*570301	*580101	*0718		SBT, SSP
3632	Colombe, Beth	*0301	*6602	*5703	*5801	*0718	*0701/18	SSP
5130	Costeas, Paul	*0301	*6602	*5703	*5801	*0701/18	*0701	SSO, SSP
779	Daniel, Claud	*03	*66	*57	*58	*07		PCR-SSP
3186	Dunckley, Hea	*03	*66	*57	*58	*07		SSP, RSSO-A, B
3766	Dunn, Paul	*03	*6602	*5703/17	*58	*07		SSO
856	Dupont, Bo	*0301+	*6602	*5703	*5801/04/11-13+	*0701+	*0701+	SSO
5214	Eckels/CPMC	*03	*6602	*57	*58	*07	*07	
2332	Elkhalifa, Mo	*03	*66	*57	*58	*07		SSP
4251	Ellis, Thomas	*0301	*6602	*5703	*5801	*0701/06/18	*0701/06/18	PCR-SSO, SEQ
762	Fischer&Mayr	*0301	*6602	*5703	*5801/11	*0701/06/18/52		RSSO, SBTex1-3
792	Gandhi&Genco	*0301	*6602	*5703	*5801	*0718	*0701	SSO, SSP
8043	Gideon, Osna	*0301	*6602	*5703/17	*5801	*0718	*0701/18	SSOP, SSP
810	Hamdi, Nuha	*03010101	*6602	*570301	*580101	*0718	*070101	SSO
4269	Hanau, Daniel	NT						
741	Harville, Ter	*0301	*6602	*5703	*5801	*0701		SSO
3808	Hogan, Patric	*03	*6602	*57	*58	*07		
771	Israel, Shosh	*0301	*6602	*5703	*5801	*0701		SBT, SSP
9003	Israel_LR	*03	*66	*57	*58	*07		SSO
859	Kamoun, Malek	*0301	*6602	*5703	*5801	*0718	*0701	
4337	Kim, Tai-Gyu	*0301/03N	*6602	*5703	*5801	*0701		SBT
168	Klein, Tirza	*03	*66	*57	*58			
278	Lee, Jar-How	*0301/46	*6602	*5703/17	*5801	*0701/18/58-71		SSP, RVSSOP
6649	Lim, Young Ae	*03	*66	*57	*58	*07		PCR-SSP
731	Loewenthal, R	*030101	*6602	*570301	*580101	*0701/06/18		SBT
759	Lopez-Cepero	*0301/04/13/14+	*6602	*5703/17	*5801	*0701/06/18/20/21		RVSSO
23	Mah, Helen	*03	*6602	*5703/17	*58	*07	*07	SSO
8029	Mani, Rama	*03	*66	*57	*58			SSP
206	McAlack-Bala	*03	*6602	*57	*5801	*07	*07	RVSSOP
4336	Park, Myoung	*03	*6602	*5703	*58	*07		RVSSO
16	Pidwell/Aska	*030101	*6602	*570301	*580101	*070101/18		PCR-RSSOP, SBT
3625	Rees, Tracey	*03	*6602	*57	*58	*0718	*07	PCR-SSP
5200	Reinke, Denni	*03	*66	*57	*58	*07		SSP
1160	Rosen-Bronso	*03	*66	*57	*58	*07		RVSSO, SSP
793	Rubocki, Ron	*03	*66	*57	*58	*07		PCR-SSP
4948	Sage, Deborah	*0301	*6602	*5703	*5801/11	*0701/06/18/52		
3519	Semana, Gilbe	*0301	*6602	*5703	*5801	*0718		SBT
8001	Sheikh, Maqso	*03	*66	*57	*58	*07		SSP, RVSSOP
769	Tavoularis, S	*0301	*6602	*5703	*5801	*0718		SSO, SBT, SSP
747	Tiercy, Jean-	NT						
5451	Tilanus, Marc	*030101	*6602	*570301	*580101	*0718		SBT
5462	Turner, E.V.	*0301	*6602	*5703	*5801	*0701/18		SEQ, SSO, SSP

INVESTIGATOR		CELL NO.1392 (Hispanic)		B1	B2	C1	C2	method
CTR	NAME	A1	A2					
745	Anthony Nola	*020101	*680102	*3901	*3909	*070201		SSO, SSP, SBT
5106	Brown, Colin	*0201	*6801	*3901	*3909	*0702/50		P-RVSSOP, SBT
774	Cecka, J. Mich	*02	*68	*39		*07		SSP, SSOP
5232	Charlton, Ron	*0201	*6801	*3901	*3909	*0702	*0702	SSP, RVSSO
4492	Charron, D.	*0201/95	*6801	*3901/010102L/09	*3909	*0702/75/80/84+	*0702/75/80/84+	PCR-SSP
4492	Charron_LR	*02	*68	*39	*3909	*07		PCR-SSO
798	Claas, F.H.J.	*0201	*680102	*39010101	*3909	*0702		SBT, SSP
3632	Colombe, Beth	*0201	*6801	*3901/09	*3909	*0702		SSP
5130	Costeas, Paul	*0201	*6801/37	*3901	*3909	*0702	*0702	SSO, SSP
779	Daniel, Claud	*02	*68		*3909	*07		PCR-SSP
3186	Dunckley, Hea	*02	*68	*39		*07		SSP, RVSSO-A, B
3766	Dunn, Paul	*02	*68	*39	*3909	*07		SSO
856	Dupont, Bo	*0201+	*6823	*3901		*0702/10/17/19+	*0701+	SSO
5214	Eckels/CPMC	*02	*68	*39	*3909	*07	*07	
2332	Elkhalifa, Mo	*02	*68	*39		*07		SSP
4251	Ellis, Thomas	*0201	*6801/11N	*3901	*3909	*0702/50	*0702/50	PCR-SSO, SEQ
762	Fischer&Mayr	*0201	*6801/33	*3901/01L/46	*3909	*0702/50/66/74		RSSO, SBTex1-3
792	Gandhi&Genco	*0201	*6801	*3901/10	*3909	*0702		SSO, SSP
8043	Gideon, Osna	*0201	*6801	*3901	*3909	*0702		SSOP, SSP
810	Hamdi, Nuha	*02010101	*680102	*3915	*3909	*07020101	*0705	SSO
4269	Hanau, Daniel	NT						
741	Harville, Ter	*0201	*6801	*3901	*3909	*0702		SSO
3808	Hogan, Patric	*02	*68	*39		*07		
771	Israel, Shosh	*0201	*6801	*3901	*3909	*0702		SBT, SSP
9003	Israel_LR	*02	*68	*39		*07		SSO
859	Kamoun, Malek	*0201/95	*6801	*3901	*3909	*0702		
4337	Kim, Tai-Gyu	*0201	*6801	*3901	*3909	*0702		SBT
168	Klein, Tirza	*02	*68	*39	*39	*07	*07	
278	Lee, Jar-How	*0201	*6801	*3901	*3909	*0702		SSP, RVSSOP
6649	Lim, Young Ae	*02	*68	*39		*07		PCR-SSP
731	Loewenthal, R	*020101/22	*680102/11N/08	*3901	*3909	*070201/50		SBT
759	Lopez-Cepero	*0201/07/09/18+	*6801/07/08/12+	*3901/15/19/26/27+	*3909	*0702/05/13/23/25+		RVSSO
23	Mah, Helen	*02	*68	*39	*3909	*07	*07	SSO
8029	Mani, Rama	*02	*68	*39				SSP
206	McAlack-Bala	*02	*68	*39	*3909	*07	*07	RVSSOP
4336	Park, Myoung	*02	*68	*39		*07		RVSSO
16	Pidwell/Aska	*020101	*680102/11N	*3901	*3909	*070201/50		PCR-RSSOP, SBT
3625	Rees, Tracey	*02	*68	*39		*07		PCR-SSP
5200	Reinke, Denni	*02	*68	*39		*07		SSP
1160	Rosen-Bronso	*02	*68	*39		*07		RVSSO, SSP
793	Rubocki, Ron	*02	*68	*39		*07		PCR-SSP
4948	Sage, Deborah	*0201/22	*6801/08/11N	*3901/46	*3909	*0702/50/66/74		
3519	Semana, Gilbe	NT						
8001	Sheikh, Maqso	*02	*68	*39		*07		SSP, RVSSOP
769	Tavoularis, S	*0201	*6801	*3901/01L	*3909	*0702		SSO, SBT, SSP
747	Tiercy, Jean-	NT						
5451	Tilanus, Marc	*020101	*680102	*3901	*3909	*070201		SBT
5462	Turner, E.V.	*0201	*680102	*3901	*3909	*0702		SEQ, SSO, SSP

## Cell 1389 (Black)

47 labs  
A\*30 55%  
A\*3002 32%  
A\*300201 13%  
A\*30 100% TOTAL  
  
A\*74 49%  
A\*7401/02 11%  
A\*7401 36%  
A\*7402 2%  
A\*74 98% TOTAL

## Cell 1390 (Hispanic)

47 labs  
A\*03 53%  
A\*0301 36%  
A\*030101 9%  
A\*03010101 2%  
A\*03 100% TOTAL  
  
A\*24 53%  
A\*2402 34%  
A\*240201 4%  
A\*24020101 9%  
A\*24 100% TOTAL

## Cell 1391 (Black)

46 labs  
A\*03 56%  
A\*0301 33%  
A\*030101 9%  
A\*03010101 2%  
A\*03 100% TOTAL  
  
A\*66 26%  
A\*6602 74%  
A\*66 100% TOTAL

## Cell 1392 (Hispanic)

45 labs  
A\*02 58%  
A\*0201 33%  
A\*020101 7%  
A\*02010101 2%  
A\*02 100% TOTAL  
  
A\*68 60%  
A\*6801 27%  
A\*680102 11%  
A\*6823 2%  
A\*68 100% TOTAL

47 labs

B\*14 38%  
B\*1402/09 13%  
B\*1402 34%  
B\*140201 15%  
B\*14 100% TOTAL  
  
B\*81 64%  
B\*8101 36%  
B\*81 100% TOTAL

47 labs

B\*07 66%  
B\*0702 28%  
B\*070201 6%  
B\*07 100% TOTAL  
  
B\*38 53%  
B\*3801 36%  
B\*380101 11%  
B\*38 100% TOTAL

46 labs

B\*57 35%  
B\*5703/17 13%  
B\*5703 39%  
B\*570301 13%  
B\*57 100% TOTAL  
  
B\*58 50%  
B\*5801 37%  
B\*580101 13%  
B\*58 100% TOTAL

45 labs

B\*39 56%  
B\*3901 38%  
B\*39010101 2%  
B\*3915 2%  
B\*39 98% TOTAL  
  
B\*39 31%  
B\*3909 67%  
B\*39 98% TOTAL

46 labs

Cw\*08 52%  
Cw\*0802 33%  
Cw\*080201 13%  
Cw\*08 98% TOTAL  
  
Cw\*08 41%  
Cw\*0804/13 16%  
Cw\*0804 41%  
Cw\*0813 2%  
Cw\*08 100% TOTAL

46 labs

Cw\*07 53%  
Cw\*0702/50 4%  
Cw\*070201/50 4%  
Cw\*0702 35%  
Cw\*070201 2%  
Cw\*07020101 2%  
Cw\*07 100% TOTAL  
  
Cw\*12 46%  
Cw\*1203 43%  
Cw\*120301 7%  
Cw\*12030101 4%  
Cw\*12 100% TOTAL

44 labs

Cw\*07 52%  
Cw\*0701/06/18 5%  
Cw\*0701/18 5%  
Cw\*070101/18 2%  
Cw\*0701 7%  
Cw\*0718 29%  
Cw\*07 100% TOTAL

44 labs

Cw\*07 55%  
Cw\*0702/50 4%  
Cw\*070201/50 4%  
Cw\*0702 30%  
Cw\*070201 5%  
Cw\*07020101 2%  
Cw\*07 100% TOTAL

INTERNATIONAL CELL EXCHANGE

		***** CELL NO.1389 *****						***** CELL NO.1390 *****						***** CELL NO.1391 *****						***** CELL NO.1392 *****										
		V						V						V						V										
		I						I						I						I										
		(BLCK)						(HISP)						(BLCK)						(HISP)										
INVESTIGATOR	DAYS	A	A	B	B	C	B	A	A	B	B	C	B	B	A	A	B	B	C	B	A	A	B	C	B	A	A	B	C	B
NAME	OLD	%	0	4	4	1	8	6	%	4	8	7	4	6	%	6	7	8	7	4	%	8	9	7	6	%	8	9	7	6
							OTHERS						OTHERS															OTHERS		
Abbal, Michel	3	98	+	+	+	+	+		98	+	+	+	+	+		95	+	+	+	+		95	+	+	+	+		B14		
Alonso, Anton	7	90	+	+	65	+	+		90	+	+	+	+	+		90	+	+	+	+	+		90	+	+	+	+			
Alvarez, Carr	3	100	+	+	65	+	+	A11	100	+	+	+	+	+		100	+	+	+	+	+		100	+	+	+	+			
Anthony Nola	3	98	+	+	+	+	+		98	+	+	+	+			98	+	+	+	+	17		98	+	+	+	+			
Berka, Noured	2	99	+	+	65	+	+	CW5	99	+	+	+	+	+	CX12	99	+	+	+	+	+		99	+	+	+	+			
Cecka, J. Mich	2	95	+	+	65	+	+		95	+	+	+	+	+		90	+	+	+	+	+		95	+	+	+	+			
Chan MD, Soh	4	95	+	+	+	+	+	A31, B7	90	+	+	+	+	+		95	+	+	+	+	+	A33, B49	95	+	+	+	+			
Charron, D. P	3	98	+	+	+	+	+		98	+	+	+	+			98	+	+	+	+	+		98	+	+	+	+	B14		
Choo, Yoon MD	9	96	+	+	65	+	+		96	+	+	+	+	+		96	+	+	+	+	+		96	+	+	+	+			
Claas, F.H.J.	6	90	+	+	+	+	+	A31	90	+	+	+	+	+		90	+	+	+	+	+		90	+	+	+	+			
Dunckley, Hea	9	99	19	+	+	+	+	B7	95	+	+	+	+	+		95	+	+	+	+	+		95	+	+	+	+			
Dunk, Arthur	2	98	+	+	+	+	+		98	+	+	+	+	+		98	+	+	+	+	+		98	+	+	+	+			
Dunn, Paul Dr	6	95	+	+	65	+	+		95	+	+	+	+	+		95	+	+	+	+	+		95	+	+	+	+	B64		
Esteves Kond	2	98	+	+	65	+	+		98	+	+	+	+	+		98	+	+	+	+	+		98	+	+	+	+			
Fischer, Joha	6	98	+	+	65	+	+		98	+	+	+	+	+		98	+	+	+	+	+		98	+	+	+	+			
Gideon, Osna	6	100	+	+	65	+	+		100	+	+	+	+	+		100	+	+	+	+	+		100	+	+	+	+			
Gomez, Carmen	2	98	+	+	65	+	+		98	+	+	+	+	+		98	+	+	+	+	+		98	+	+	+	+			
Gomez, Carmen	3	98	+	+	65	+	+		98	+	+	+	+	+		98	+	+	+	+	+		98	+	+	+	+			
Hahn, Amy B.	2	99	+	+	65	+	+		99	+	+	+	+	+		99	+	+	+	+	+		98	+	+	+	+	B64		
Harville, Ter	2	98	+	+	65	+	+		98	+	+	+	+	+		98	+	+	+	+	+		98	+	+	+	+			
Hirankarn MD	6	75	+	+	+	+	+	B7	NT						80	+	+	+	+	+	A34, B63	NT								
Hogan, Patric	9	90	+	+	65	+	+		90	+	+	+	+	+		90	+	+	+	+	+		90	+	+	+	+			
Holdsworth, R	8	85	+	+	+	+	+		90	+	+	+	+	+		80	+	+	+	+	+	6602	90	+	+	+	+			
Hubbell, Char	3	95	+	+	65	+	+		95	+	+	+	+	+		95	+	+	+	+	+	B51V	95	+	+	+	+	B14		
Israel, Shosh	5	95	+	+	65	+	+		95	+	+	+	+	+		95	+	+	+	+	+		95	+	+	+	+			
Keown, Paul M	6	95	+	+	65	+	+		95	+	+	+	+	+		90	+	+	+	+	+		95	+	+	+	+	B14		
Klein, Tirza	6	90	+	+	+	+	+	B7	30	+	+	+	+	+		60	+	+	+	+	+		90	+	+	+	+			
Kvam, Vonnett	3	90	+	+	65	+	+	CW7	90	+	+	+	+	+	CX12	98	+	+	+	+	+	B63	97	+	+	+	+			
Lardy, N.M. D	6	90	+	+	+	+	+		90	+	+	+	+	+		90	+	+	+	+	+	A34	90	+	+	+	+			
Loewenthal M	9	NT							90	+	+	+	+	+		90	+	+	+	+	+		90	+	+	+	+			
Lopez-Cepero	2	99	+	+	65	+	+		99	+	+	+	+	+		99	+	+	+	+	+		99	+	+	+	+			
Mah, Helen	3	98	+	+	65	+	+		98	+	+	+	+	+		98	+	+	+	+	+		98	+	+	+	+			
McAlack, Robe	2	98	+	+	65	+	+		97	+	+	+	+	+		97	+	+	+	+	+		97	+	+	+	+			
McAlack-Bala	2	98	+	+	65	+	+		98	+	+	+	+	+		98	+	+	+	+	+		98	+	+	+	+			
McCluskey, Ja	10	90	+	+	65	+	+		90	+	+	+	+	+		90	+	+	+	+	+	B63	90	+	+	+	+			
Meyer, Pieter	8	85	+	+	+	+	+	B7	85	+	+	+	+	+		80	+	+	+	+	+		85	+	+	+	+	B50, CW1		
Norin, Allen	2	98	+	+	65	+	+		99	+	+	+	+	+		99	+	+	+	+	+		99	+	+	+	+			
Padua, Florec	4	95	+	+	+	+	+		98	+	+	+	+	+		99	+	+	+	+	+	B63	99	+	+	+	+	B14		
Pais, Maria L	9	99	+	+	65	+	+		99	+	+	+	+	+		99	+	+	+	+	+		99	+	+	+	+			
Park, Myoung	6	85	+	+	+	+	+		85	+	+	+	+	+		85	+	+	+	+	+		85	+	+	+	+			
Permpikul, Ve	6	90	+	+	+	+	+	B7	90	+	+	+	+	+		90	+	+	+	+	+	A34	85	+	+	+	+			
Pidwell/Aska	2	95	+	+	65	+	+		95	+	+	+	+	+		95	+	+	+	+	+		95	+	+	+	+			
Pollack, Mari	2	99	+	+	+	+	+		99	+	+	+	+	+		99	+	+	+	+	+		99	+	+	+	+			
Rees, Tracey	6	80	+	+	65	+	+		80	+	+	+	+	+		80	+	+	+	+	+		80	+	+	+	+			
Rosen-Bronso	2	95	+	+	+	+	+		95	+	+	+	+	+		95	+	+	+	+	+		95	+	+	+	+			
Rubocki, Rona	3	99	+	+	65	+	+		99	+	+	+	+	+		99	+	+	+	+	+		99	+	+	+	+			
Sauer, Gottwa	3	95	+	+	65	+	+		95	+	+	+	+	+		90	+	+	+	+	+		100	+	+	+	+			
Semana MD, Gi	3	90	+	+	+	+	+		90	+	+	+	+	+		90	+	+	+	+	+		90	+	+	+	+	B14		
Shai, Isaac	8	90	+	+	+	+	+	B60, A29, B7	100	+	+	+	+	+		90	+	+	+	+	+	A34	90	+	+	+	+	B35		
Stamm, Luz	7	80	+	+	65	+	+		80	+	+	+	+	+	CX12	80	+	+	+	+	+		80	+	+	+	+			



\*\*\*\*\*  
 \* \*  
 \* SUMMARY TABLE \*  
 \* \*  
 \*\*\*\*\*

(BLCK)  
 \*\*\*\* CELL 1389 \*\*\*\*  
 (56 SAMPLES TYPED)  
 A30 96.4%  
 A19 1.8%  
 ( 98.2%)  
  
 A74 92.9%  
 ( 92.9%)  
  
 B14 41.1%  
 B65 57.1%  
 ( 98.2%)  
  
 B81 87.5%  
 ( 87.5%)  
  
 CW8 51.8%  
  
 BW6 89.3%

(OTHERS FOUND)  
 B7 14.3%  
 A31 3.6%  
 A29 1.8%  
 B60 1.8%  
 A11 1.8%  
 CW7 1.8%  
 A32 1.8%  
 CW5 1.8%

(HISP)  
 \*\*\*\* CELL 1390 \*\*\*\*  
 (56 SAMPLES TYPED)  
 A3 100.0%  
  
 A24 100.0%  
 (100.0%)  
  
 B7 100.0%  
  
 B38 100.0%  
 (100.0%)  
  
 CW7 58.9%  
  
 BW4 89.3%  
  
 BW6 89.3%

(OTHERS FOUND)  
 CX12 5.4%

(BLCK)  
 \*\*\*\* CELL 1391 \*\*\*\*  
 (56 SAMPLES TYPED)  
 A3 100.0%  
  
 A66 53.6%  
 6602 28.6%  
 A10 7.1%  
 ( 89.3%)  
  
 B57 83.9%  
 B17 14.3%  
 ( 98.2%)  
  
 B58 37.5%  
 B17 10.7%  
 ( 48.2%)  
  
 CW7 58.9%  
  
 BW4 89.3%

(OTHERS FOUND)  
 B63 7.1%  
 A34 7.1%  
 A68 1.8%  
 B51V 1.8%  
 B49 1.8%  
 A33 1.8%  
 6602 1.8%

(HISP)  
 \*\*\*\* CELL 1392 \*\*\*\*  
 (55 SAMPLES TYPED)  
 A2 100.0%  
 (100.0%)  
  
 A68 69.1%  
 A28 30.9%  
 (100.0%)  
  
 B39 100.0%  
 (100.0%)  
  
 CW7 63.6%  
  
 BW6 89.1%

(OTHERS FOUND)  
 B14 10.9%  
 B64 3.6%  
 B35 1.8%  
 CW1 1.8%  
 B50 1.8%