REPORT OF THE 340th CELL EXCHANGE

APRIL 8, 2009

B-Cell Line	**419-420**
DNA Extract	**445-448**
Cells	**1357-1360**

B-cell line Exchange

We are grateful for the numerous interesting cells provided by **Helen Bass, Jane Rowlands, and Tracey Rees, Wales Blood Service**, to study in our exchanges.

TER-419. A novel DRB1*03 allele was detected by 20% of the labs in this cell from a Caucasian donor. DRB1*0330 was assigned by 18%, DRB1*0301 was assigned by 6%, and assignments of DRB1*0304, DRB1*0323, and DRB1*0325 were also reported.

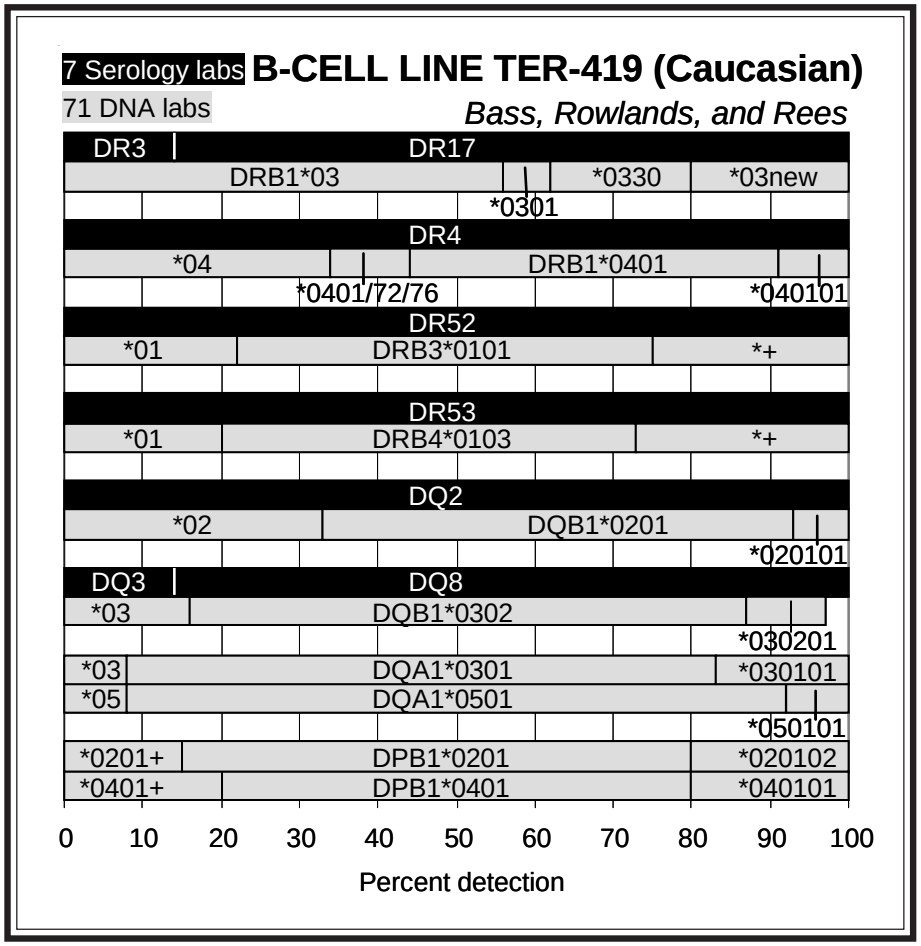
The new DRB1*03 variant was described by a number of labs (Baker, Chen, Dormoy, J.Fischer, Mayr and Fischer, Hartzman and Hurley, Kamoun, KW Lee, J.Lee, Loewenthal, McIntyre, Reed, Rees, Reinsmoen, Tiercy, Tilanus, Watkins) as being most similar to DRB1*0330, with one nucleotide substitution (G->C) at position 199 in exon 2. This one substitution results in an amino acid change of Val->Leu at codon 38. Colombe, Eckels, T-G Kim, Meremies, and Smith also noted the presence of a new variant. Conflicting results by different methods were observed by Cecka, Israel, Mah, McIntyre, Sheikh, and Stamm.

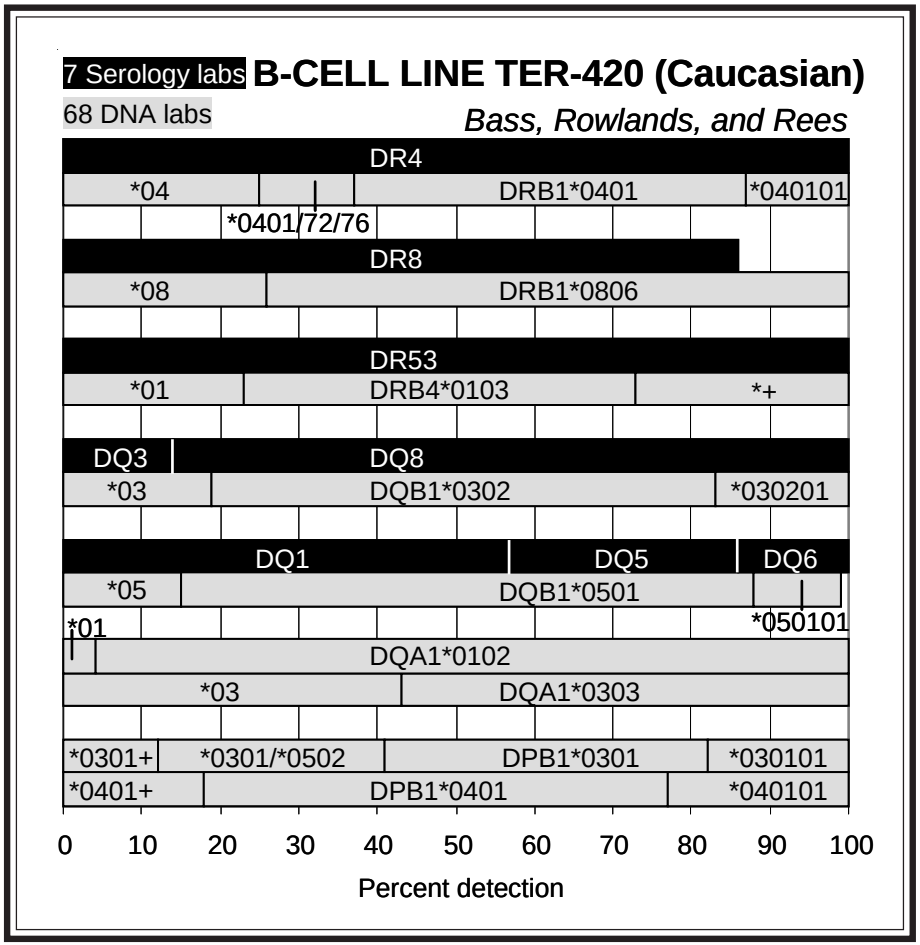
DR17 was assigned by 86%, confirming the remarks from Rowlands and Rees, the originating lab of this cell, "…serologically it types as a normal DR17 using both polyclonal sera and monoclonal antibodies." (Rowlands, personal communication, 3/19/09).

DRB1*0401 (56%) was well typed. DR4 was detected by 100%.

The probable haplotypes in this cell were DRB1*03new-DRB3*0101-DQB1*0201-DQA1*0501, associations found with the common DRB1*0301, and DRB1*0401-DRB4*0103-DQB1*0302-DQA1*0301.

DPB1*0201 (*020102) and DPB1*0401 (*040101), typed in consensus by 80% or over, were the DPB1 alleles.





TER-420. DRB1*0806 was well detected, by 74%, in this Caucasian cell. DRB1*0806 was previously typed in TER-295 (Cauc), TER-296 (also TER-230), and TER-356. This cell was not the same donor typed as TER-356 typed in 2005, although the high-resolution typings were nearly identical, except DQB1*0301 was present in TER-356, whereas DQB1*0302 was typed in this present cell.

DR8 was assigned by 86%.

The likely associations in this cell were DRB1*0401-DRB4*0103-DQB1*0302-DQA1*0303 and DRB1*0806-DQB1*0501-DQA1*0102. Rubocki and Tiercy commented that the DR8-DQ5 linkage was unusual. The same DRB1*0806-DQB1*0501 association was present in TER-356. DRB1*0806-DQB1*0602 is more commonly found, as noted by Tiercy, as was found in previous DRB1*0806 cells, TER-295 and TER-296.

The DPB1 types were DPB1*0301 (*030101) (59%) and DPB1*0401 (*040101) (82%).

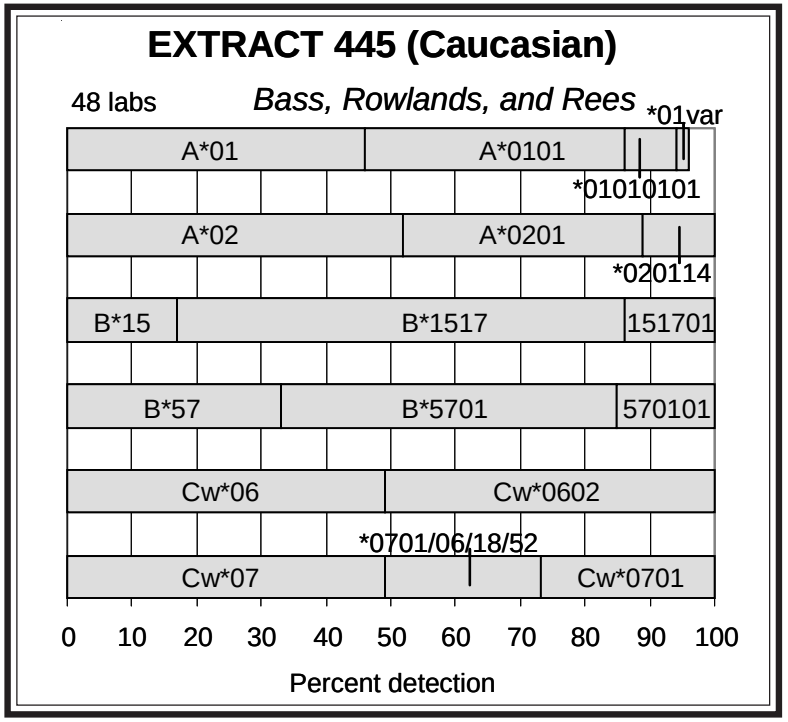
Extract Exchange

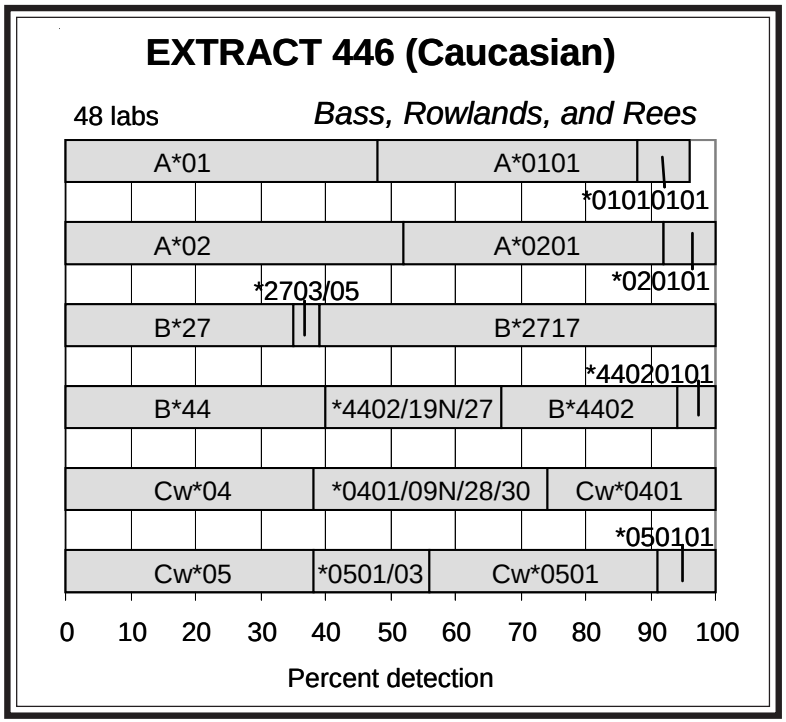
We express our deep appreciation to the our fellow colleagues for their generous collaboration in providing unusual cells: **Helen Bass, Jane Rowlands, and Tracey Rees, Wales Blood Service; Al Smerglia and Gary Teresi, Cleveland Clinic; and, Edward Ball and Dan Cook, formerly of Cleveland Clinic**.

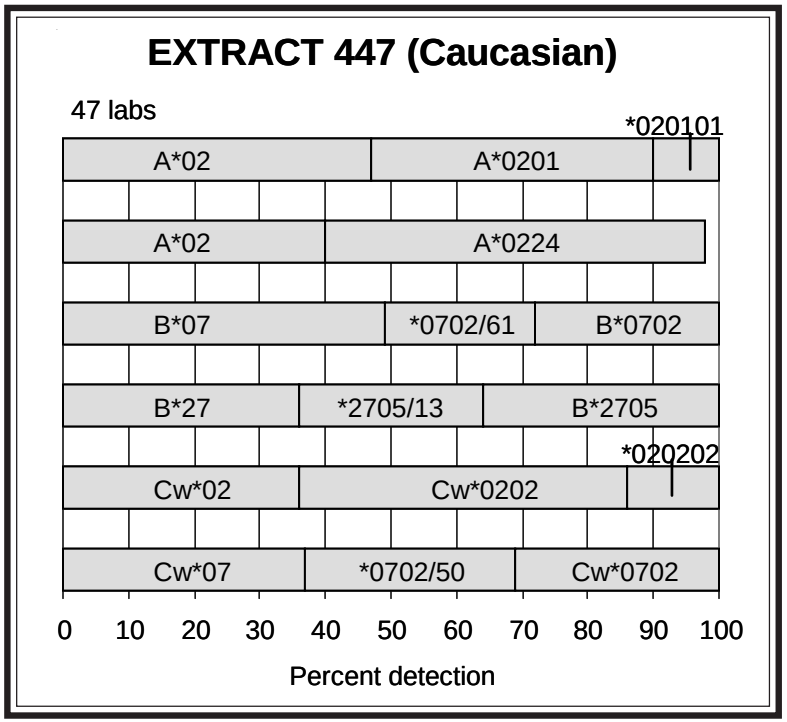
Extract 445. This interesting cell from a Caucasian donor carried the novel A*0134N. The donor was typed as A2, A -, when tested as a potential registry donor in the Welsh Bone Marrow Donor Registry; however, when typed by SSP, the A-locus was found to be A*01, A*02. In sequencing the new A*01 allele, Dunn et al. (1) detected only one difference from A*01010101, a silent change at codon 211 (GCG->GCA), in exon 4. However, Dunn et al. found that the sequence of exon 4 to be 87 nucleotides shorter than normal, starting next to the silent change at position 705, and furthermore, "This mutation appears to have created an alternative splice site so the 3' end of intron 3 is spliced with an additional 87 nucleotides of exon 4. Although exon 4 is still in-frame, the protein is significantly shorter than 'wild type,' likely affecting binding with beta 2 microglobulin, folding and assembly of the mature protein on the cell surface, thus explaining the "null" phenotype." (Dunn, personal communication, 4/2/09). The IMGT-HLA Database refers to this new allele, "A*0134N - This allele has been officially named but is still confidential." Dunn said that information for A*0134N will be made public soon.

In this present typing, A*0101 (37%), A*010101 (2%), and A*01010101 (6%) were reported. We commend 2 labs, Barnardo and Reinsmoen, for detecting an A*01 variant. Barnardo commented, "A at position 705 (exon 4) of the A locus was found to be in cis with the A*01 sequence. G at this position was found in cis with the A*02 sequence," and by "…using group-specific exon 4 SBT we identify the sample as A*01010101 variant and A*020101." Reinsmoen noted a novel allele being most similar to A*010101/01N, concurring with Dunn's description of A*0134N.

A*0201 was reported by 100%. It should be noted, however, that A*020114 was assigned by 10%, that is, by 5 labs. Barnardo remarked that generic A-locus SBT would define the samples as A*01010101 and A*020114. Dunn et al. stated that A*020114 is one of 2 A-locus alleles, the other being A*240203, to have the same silent change at codon 211, as in A*0134N.







Extract 446. B*2717, as detected by 59%, was typed for the first time in the Cell Exchange in this cell from a Caucasian individual. Voorter et al. (2) said that the sequence was most similar to B*270502, with one mismatch at position 248 (A->T), resulting in one amino acid change (Tyr->Phe). The investigators noted that this position was previously considered to be conserved in all B-locus alleles, and therefore postulated, "The B*2717 allele is probably the result of a point mutation, as no other alleles have a T at position 248."

B*4402 (33%) was the other B-locus allele.

A*0101 and A*0201were detected by 47%. In contrast to extract 445 with the novel A*0134N, no lab reported A*020114 for this cell.

Cw*0401 (26%) and Cw*0501 (44%) were the C-locus alleles.

A*0201-B*4402-Cw*0501 is a commonly found haplotype in Caucasian populations. Therefore, the other probable haplotype was A*0101-B*2717-Cw*0401. This was the first time that the B27-Cw4 association was observed in exchange cells. B27 is commonly found associated with Cw1 or Cw2. The same A1-B2717-Cw4 haplotype was likely present in 4388TO, the reference B*2717 cell.

Extract 447. Two different A*02 alleles, A*0201 (52%) and the rare A*0224 (56%) were detected in this Caucasian cell. A*0224 was previously typed in extracts 257 (2003) and 342 (2005).

B*0702 (27%) and B*2705 (36%) were reported.

Cw*0202 (62%), with Cw*020202 assigned by 13%, was present. The other C-locus type was Cw*0702 (31%).

In the other 2 A*0224 cells typed in the Cell Exchange, B*0702 and Cw*0702 were also detected. The probable associations in this cell may be A*0224-B*0702-Cw*0702 and A*0201-B*2705-Cw*020202.

Extract 448. This Caucasian donor was previously typed as extract 322 in 2005. It remains the sole B*0710 cell typed in the Cell Exchange.

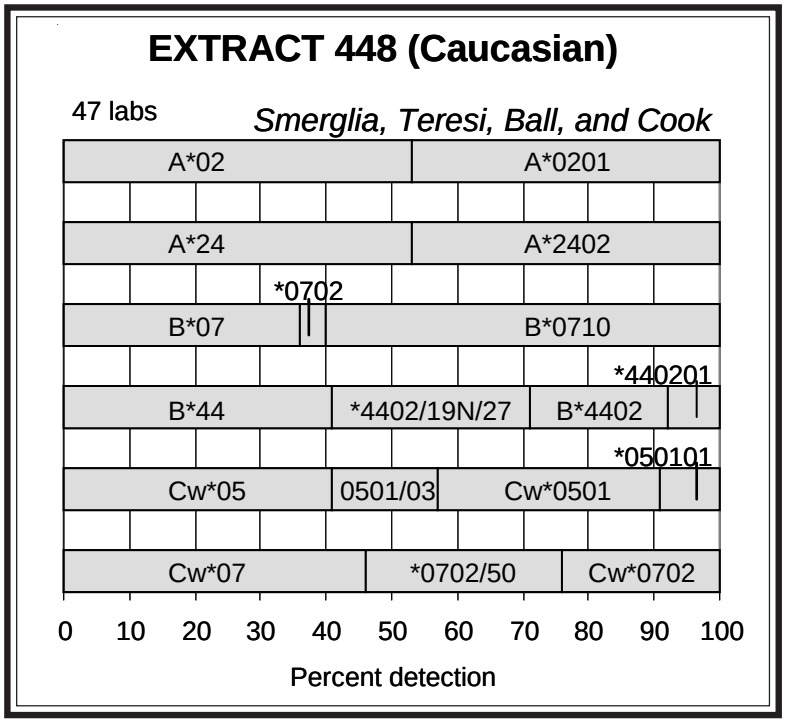
Improved detection levels were achieved for all alleles, except for Cw*0702, as follow:

	extract 322	extract 448
	2005	2009
A*0201	24%	46%
A*2402	27%	46%
B*0710	48%	58%
B*4402	25%	29%
Cw*0501	24%	42%
Cw*0702	51%	24%

The misassignment rate for B*0702 decreased from 8% to 4%.

As eluted to in the previous report for this cell, Eisner and Blasczyk (3) found one nucleotide substitution between B*0702 and B*0710, that is, A->G at position 272, resulting in an amino change of Tyr ->Cys at codon 67. The investigators postulated that, due to physical and chemical differences between the 2 amino acids, this may lead to alteration of the binding peptide binding motif, and therefore, “Accordingly, possible mismatch of B*0710 with B*0702 may induce alloreactive T-cell clones and thus impair clinical outcome of bone marrow transplantation.”

The probable haplotypes in this cell were the common A*0201-B*4402-Cw*0501 and A*2402-B*0710-Cw*0702.



Cell Exchange

Cell 1357. When this Hispanic donor was previously typed as extract 436 (2008), as correctly identified by Moses and Dunckley, the rare A*3305 (54%) was detected for the first time in the Cell Exchange

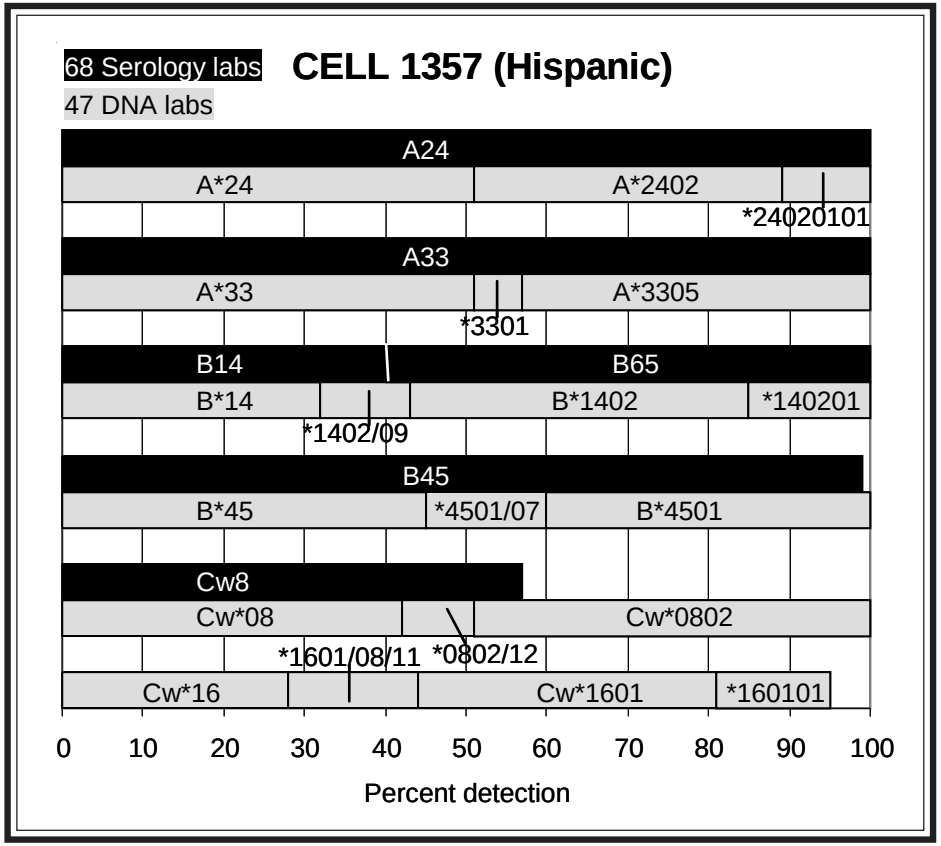
A33 was assigned in complete consensus. In the most recent HLA dictionary update (4), NMDP data indicated that from 13 A*3305 cells, the average detection rate for A33 was 92%. This present typing was the first time that A3305 was typed serologically in the Exchange.

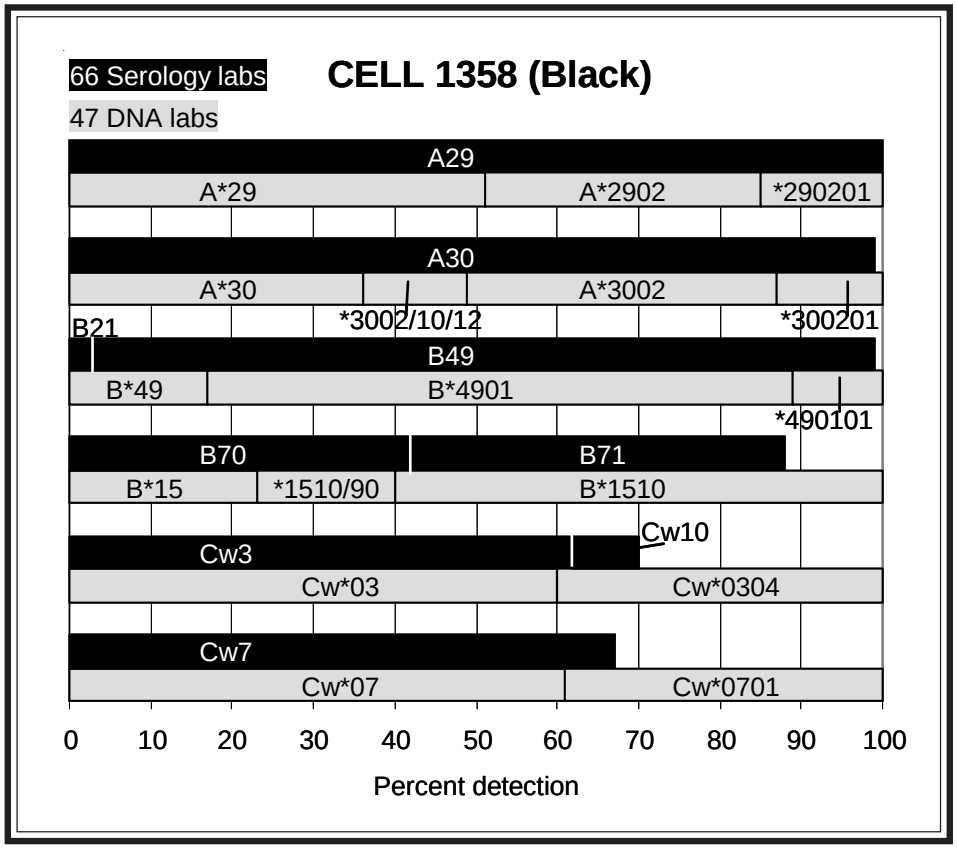
A*3305 was detected by 43%. A*3301 was misassigned by 6%.

The B14 split of B65 (60%) and B45 (99%) were confirmed as B*1402 (57%) and B*4501 (40%), respectively.

Cw8 (57%) was corroborated as Cw*0802 (49%). The other C-locus allele was Cw*1601 (51%), as reported by over half of the labs.

Two commonly found associations, B*1402-Cw*0802 and B*4501-Cw*1601, were present in this cell. One A*3305 reference cell, DU, also was typed as B*1402-Cw*0802, and B*1402 was present in another reference cell, Leiden-QC1504. Therefore, the possible haplotypes in this donor may be A*2402-B*4501-Cw*1601 and A*3305-B*1402-Cw*0802.





Cell 1358. This cell from a Black individual was previously typed as cells 1130 (2002) and 1236 (2005), as correctly identified by Brown, Moses and Dunckley, Harville, Israel, Lopez-Cepero, Mah, McAlack, Stamm, and Tiercy.

In this present retyping, B70 was assigned by 88%, with 46% reporting B71. B*1510 was assigned by 60%.

The second B-locus antigen, B49 (99%), was verified as B*4901 by 83%.

A29 (100%) and A30 (99%) were confirmed as A*2902 (49%) and A*3002 (51%), respectively.

Two common associations, B71-Cw3 and B49-Cw7, that is, B*1510-Cw*0304 and B*4901-Cw*0701, were likely present in this cell.

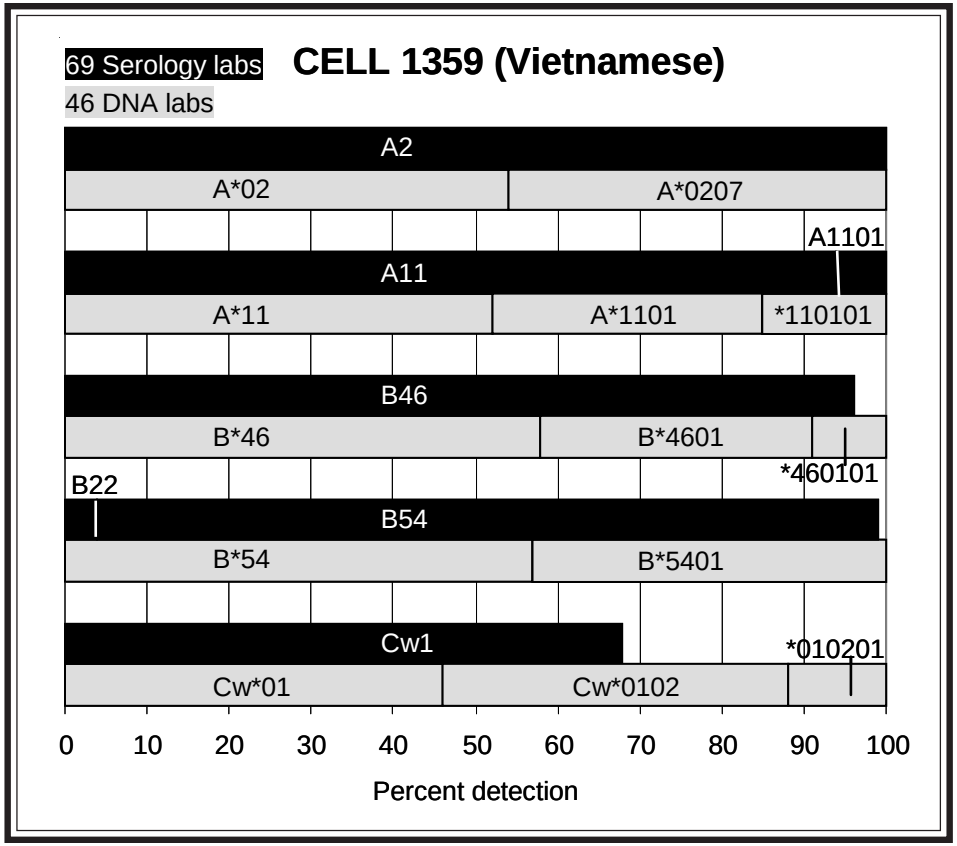
Cell 1359. This Vietnamese donor was typed multiple times in the Cell Exchange, as cells 1254 (2005), 1287 (2006), and 1329 (2008).

B46 (96%) and B54 (94%) were well typed and confirmed as B*4601 (44%) and B*5401 (43%), respectively.

A2 (100%) was established as A*0207 (46%), an A2 subtype commonly found in Asian individuals.

Cw1 (68%) was the sole C-locus type, confirmed as Cw*0102 by 54%.

The probable haplotypes were9 A*0207-B*4601-Cw*0102 (HF=0.0413) and A*1101-B*5401-Cw*0102 (HF=0.0098) (5).



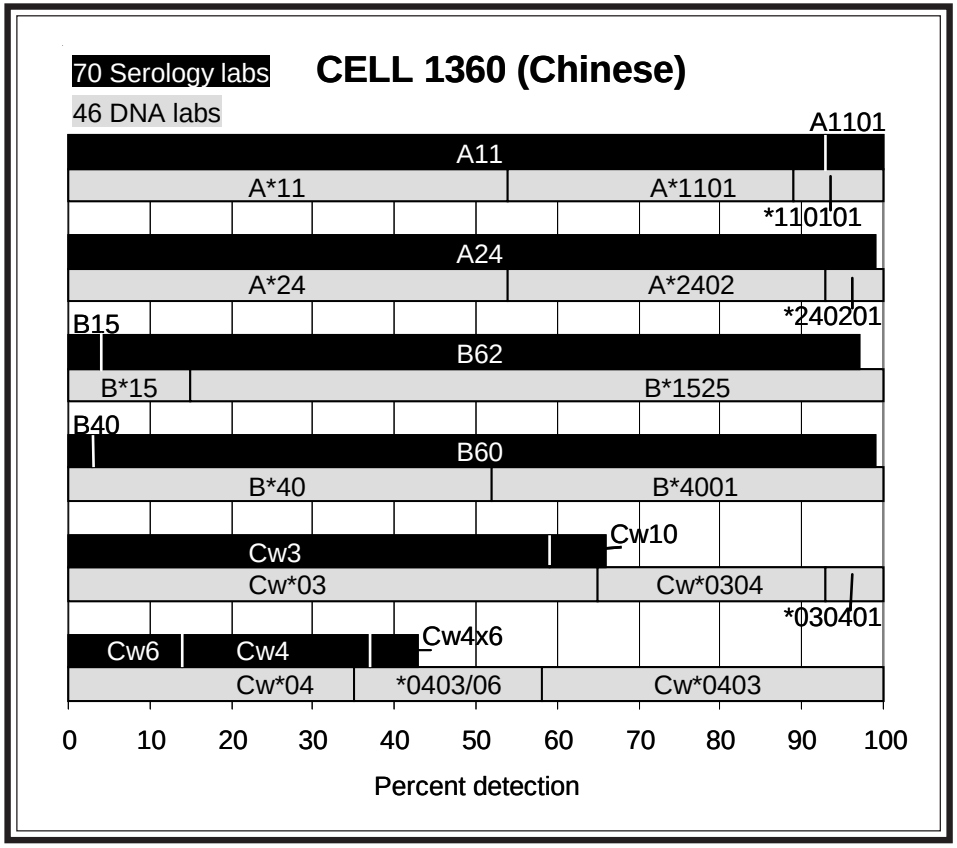
Cell 1360. B62 (93%) was typed by over 90% in this Chinese cell. Dunk and Holdsworth commented that the anti-B62 reactivity pattern was short. B*1525 was reported by 85%. B*1525 was recently typed in cell 1350 (2008) from another Chinese donor.

The second B-locus antigen was well typed as B60 (96%), confirmed as B*4001 (48%).

One C-locus antigen was the Cw4 subtype (C403/Cw4x6) (6%) encoded by Cw*0403 (42%), with reporting of both Cw4 (23%) and Cw6 (24%). Mah, Pollack, and Sperry noted the ambiguous anti-Cw4 and -Cw6 reactivity pattern.

The second C-locus type was Cw3 (66%), with Cw10 (7%) confirmed as Cw*0304 (35%).

The probable associations in this cell were B*1525-Cw*0403 and B*4001-Cw*0304.



References

1. Dunn PPJ, Hammond L, Street J, and Darke C. A 'silent' nucleotide substitution in exon 4 is responsible for the silent expression of an HLA-A*01 allele. Inter J Immunogenetics 2008;35:481 (abstract no.6.36).

2. Voorter CEM, Swelsen WTN, and van den Berg-Loonen EM. B*27 in molecular diagnostics: Impact of new alleles and polymorphism outside exons 2 and 3. Tissue Antigens 2002;60:25.

3. Elsner HA and Blasczyk R. Increased diversity within the HLA-B*07 group: identification of the two novel alleles B*0709 and B*0710. Tissue Antigens 2000;56:371.

4. Holdsworth R, Hurley CK, Marsh SGE, et al. The HLA dictionary 2008: a summary of HLA-A, -B, -C, -DRB1/3/4/5, and -DQB1 alleles and their association with serologically defined HLA-A, -B, -C, -DR, and -DQ antigens. Tissue Antigens 2009:73:95.

5. Cao K, Hollenbach J, Shi X, et al. Analysis of the frequencies of HLA-A, B, and C alleles and haplotypes in the five major ethnic groups of the United States reveals high levels of diversity in these loci and contrasting distribution patterns in these populations. Hum Immunol 2001:62:109.

NEXT MAILING DATE: May 6, 2009

Marie Lau, Min S. Park, J. Michael Cecka, and Elaine F. Reed

PARTICIPATING CENTERS

NAME	CITY	STATE/COUNTRY
(W.H.O. LABS)		
Fischer & Mayr,Drs	Vienna	
Abbal,Prof Michel	Toulouse Cedex	
Adams,Sharon	Bethesda	MD
Allegheny General Ho	Pittsburgh	PA
Alonso,Antonio	Malaga	
Alvarez & Carrett,Dr	Montevideo	
Amole,Folasade	Miami	FL
Anthony Nolan Trust	London	England
Baker,Judy	Dallas	TX
Balazs,Ivan	Stamford	CT
Ball,Dr Edward	London	ON
Barnardo,Dr Martin	Oxford	England
Baxter-Lowe,Dr Lee A	San Francisco	CA
Berka PhD,Noureddine	Washington	DC
Blasczyk,Prof Rainer	Hannover	
Bow PhD,Laurine	Hartford	CT
Brown,Dr Colin	London	England
Burger,Joe	Columbia	MO
Cantwell,Linda	Parkville	
Carrington & Martin,	Frederick	MD
Cecka PhD,J.Michael	Honolulu	HI
Cecka PhD,Michael	Los Angeles	CA
Chan MD,Prof Soh Ha	Singapore	
Charlton PhD,Ronald	Jacksonville	FL
Charron,Prof D.	Paris Cedex 10	
Chen,Dr Dong-Feng	Durham	NC
Choo MD,Yoon	Valhalla	NY
Christiansen & Wit,	Perth - West A	
Claas,Prof F.H.J.	Leiden	
Clark,Dr Brendan	Leeds	England
Cohen,Prof JHM	Reims Cedex	
Colombe PhD,Beth W.	Philadelphia	PA
Cooper MD,E. Shannon	Jefferson	LA
Costeas,Dr Paul A.	Nicosia	
Crowe PhD,Deborah	Nashville	TN
Daniel PhD,Claude	Laval	PQ
Daniel,Dr Dolly	Tamil Nadu	
Davidson & Poulton,D	Manchester, En	
Davis PhD,Mary	Stamford	CT
del Pozo,Dr Ana	Buenos Aires	
Dhaliwal,Dr J.S.	Kuala Lumpur	
Dinauer,David	Brown Deer	WI
Dormoy,Dr Anne	Strasbourg	
Du PhD,Keming	Shanghai	
Du Toit,Prof Ernette	Observatory	
Dunckley PhD,Heather	Sydney	NSW
Dunk,Arthur	Lauderhill	FL
Dunn,Dr Dale	Lubbock	TX
Dunn,Dr Paul	Auckland	
Dupont MD,Bo	New York	NY
Gautreaux,Dr Michael	Winston-Salem	NC
Gideoni,Osnat	Haifa	
Gillespie,Dr Kathlee	Bristol	
Gladman/Pellett,	Toronto	ON
Goggins,R.	New Haven	CT
Gomez,Carmen	Miami	FL
Graff,Dr Ralph J.	St Louis	MO
Hahn PhD,Amy B.	Albany	NY
Hajeer,Dr Ali	Riyadh	
Hamdi,Dr Nuha	Riyadh	
Han,Dr Hoon	Seoul	
Harville,Dr Terry	Little Rock	AR
Henrico Doctors' Hos	Richmond	VA
Hidajat,Dr M.	Brugge	
Hirankarn MD PhD,Nat	Bangkok	
Hogan,Dr Patrick	Herston QLD	
Holdsworth,Rhonda	South Melbourn	
Hsu PhD,Susan H.	Philadelphia	PA
Hubbell,Charlene	Syracuse	NY
Hurley & Hartzma,Drs	Rockville	MD
Ichikawa MD PhD,Yasu	Nishinomiya,Hy	
Israel,Dr Shoshana	Jerusalem	
Jackson,Dr Annette	Baltimore	MD
Jaramillo PhD,Andres	Elmhurst	IL
Kamoun MD,Malek	Philadelphia	PA
Kato MD,Shunichi	Isehara,Kanaga	
Keown MD,Paul	Vancouver	BC
Kim,Prof Tai-Gyu	Seoul	
Klein MD,Jon	Louisville	KY
Klein,Dr Tirza	Petach Tikva	
Kotsch PhD,Katja	Berlin	
KuKuruga PhD,Debra	Baltimore	MD
Kusnierczyk PhD,Piot	Wroclaw	
Kvam,Vonnett	Waukesha	WI
Land,Dr Geoffrey A.	Houston	TX
Lardy,Dr N.M.	Amsterdam	
Lebeck PhD,Lauralynn	San Diego	CA
Lee PhD,Kyung Wha	Anyang,Kyungki	
Lee,Dr Jar-How	Canoga Park	CA
Leech MD PhD,Stephen	Philadelphia	PA
Lim MD,Young Ae	Suwon	
Lo MD,Raymundo W.	Quezon City	
Loewenthal MD PhD,Ro	Tel-Hashomer	
Lopez-Cepero PhD,May	Tampa	FL
MacCann,Eileen	Providence	RI
Madrigal,Dr J.A.	London	England
Mah,Helen	Boston	MA
Mani,Dr Rama	Chennai,Tamil	
Marsh,Dr Steven	London	England
Masuo,Kiyoe	Tokyo	
McAlack PhD,Robert	Philadelphia	PA
McAlack-Balasub,	Philadelphia	PA
McCluskey,Prof James	Adelaide	
Ozawa,Mikki	Los Angeles	CA
Pais,Dr Maria Luisa	Coimbra	
Park MD,Myoung Hee	Seoul	
Passey,Ben	Liverpool	
Pereira,Noemi Farah	Curitiba Paran	
Permpikul & Vejbaesy	Bangkok	
Phelan,Donna	St Louis	MO
Pidwell PhD,Diane J.	Cleveland	OH
Pollack PhD,Marilyn	San Antonio	TX
Rajczy,Dr Katalin	Budapest	
Ray,Bryan	Stamford	CT
Reed PhD,Elaine F.	Los Angeles	CA
Reed PhD,Elaine F.	Los Angeles	CA
Rees,Dr Tracey	Pontyclun Wale	
Reinke MD,Dennis	Bismarck	ND
Reinsmoen PhD,Nancy	Los Angeles	CA
Rosen-BronGT,	Washington	DC
Rosen-BronMS,	Hyattsville	MD
Rosenberg MD,J.C.	Ann Arbor	MI
Rubocki PhD,Ronald	Scarborough	ME
Sage,Dr Deborah	London	England
Sauer & Gottwald,	Lich	
Schroeder MD,M.L.	Winnipeg	MB
Scornik,Dr Juan C.	Gainesville	FL
Semana MD PhD,Gilber	Rennes	
Senitzer PhD,David	Duarte	CA
Seoul Red Cross Hosp	Seoul	
Shainberg PhD,Bracha	Rehovot	
Sheikh PhD,Maqsood	Springfield	NJ
Sinnott & Gupta,	London	
Smith/MI,	Ann Arbor	MI
Snider PhD,Denis	Buffalo	NY
Spannagl,Dr Michael	Munich	
Sperry PhD,Roxanne	Phoenix	AZ
Spyropoulou-Vla,Dr M	Athens	
Stamm,Luz	Calgary	AB
Stastny MD,Peter	Dallas	TX
Suciu-Foca PhD,Nicol	New York	NY
Sullivan PhD,Karen	New Orleans	LA
Tagliere,Jacque	Los Angeles	CA
Tavoularis,Dr Sofia	Ottawa	ON
Thoni MD,Deborah	Orlando	FL
Tiercy,Dr Jean-Marie	Geneva 14	
Tilanus,Prof Marcel	Maastricht	
Trachtenberg PhD,Eli	Oakland	CA
Trowsdale,Prof John	Cambridge	
Turner PhD,E.V.	Memphis	TN
Tyan,Dr Dolly	Palo Alto	CA
Uhrberg,Dr Markus	Dusseldorf	
Varnavidou-Nico,Dr A	Nicosia	
Vidan-Jeras,Blanka	Ljubljana	
Vilches,Dr Carlos	Madrid	
Walter Reed Army Med	Washington	DC

Eckels/CPMC,	San Francisco	CA	McIntyre PhD,John A.	Beech Grove	IN	Wassmuth,Prof Ralf	Dresden	
Eckels/Utah,	Salt Lake City	UT	Merenmies MD PhD,Jus	Helsinki		Watkins PhD,David I.	Madison	WI
Elkhalifa MD PhD,Moh	Riyadh		Meyer,Pieter Wa	Pretoria, Gaut		Wetmore,Marilyn	Allentown	PA
Ellis PhD,Thomas	Milwaukee	WI	Moore MD,S.Breanndan	Rochester	MN	Wisecarver PhD,James	Omaha	NE
Endres & Wiltbank,Dr	Tempe	AZ	Mpuntsha,Dr Loyiso	Johannesburg		Yamamori PhD,Shunji	Tokyo	
Esteves Kondo,Debra	Canoga Park	CA	Mytilineos MD,Joanni	Ulm		Yu,Dr Neng	Dedham	MA
Esteves-Kondo,Debra	Canoga Park	CA	Nelson PhD,Karen	Seattle	WA	Zachary PhD,Andrea	Baltimore	MD
Fernandez-Vina & Can	Houston	TX	Noreen,Harriet	Minneapolis	MN	Zeevi PhD,Adriana	Pittsburgh	PA
Fischer,Dr Johannes	Dusseldorf		Norin,Dr Allen	Brooklyn	NY			
Gardiner PhD,Clair M	Dublin		Olerup,Olle	Saltsjobaden				

B-cell line TER-419

CTR	DIRNAME	DRB1	DRB1X	DRB3	DRB4	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1X	METHOD
4079	Abbal,M.	*0304/30	*0401/76			*0201	*0302					P-SSP,RVSSO
5488	Adams,Sharon	*03	*04	*01	*01	*020101	*030201	*0301	*0501	*020102	*040101	SSP,RSSO,SBT
2300	Allegheny Ge	*03	*04	*+	*+	*02	*03					RVSSO
5133	Baker,Judy	*0330	*0401	*0101	*0103	*020101	*030201					SSP,SBT
105	Ball,Edward	*0330	*0401/76	*0101	*0103	*0201	*0302	*0301	*0501	*0201	*0401/2302N+	P-SSP
2020	Barnardo,Mar	NT										
774	Cecka,J.Mich	*03	*0401	*0101	*0103	*0201/05	*0302	*0301	*0501			SSP,SSOP
785	Chan,Soh Ha	*0330	*0401	*+	*01	*0201/04+	*0302	*0301-03	*0501+			SBT
4492	Charron,D.	*03	*04	*0101	*0103	*0201	*0302	*0301	*0501	*0201	*0401/*6601	P-SSO,SSP
3224	Chen,Dongfen	*03new	*0401	*0101	*0103	*0201	*0302	*0301	*0501			SBT,SSO,SSP
8021	Clark,Brenda			*0101/03+	*0101+	*0201	*0302			*0201	*0401	P-SSP
3632	Colombe,Beth	*03	*0401	*0101	*0103	*0201	*0302					SSP
3904	Cooper,E.Sha	*0330	*040101+	*0101	*01030101+	*0201	*0302					P-SSP
5130	Costeas,Paul	*0330	*0401	*0101	*0103	*0201	*0302	*0301	*0501			SSP
779	Daniel,Claud	*03(DR17)	*040101/0102	*01-*03	*01010101+	*020101+	*03(DQ8)					P-SSP
5219	Daniel,Dolly	*03	*04	*+	*+	*02	*03					P-SSOP
8052	Del Pozo,Ana	*03	*04			*02	*03					SSO
5323	Dhaliwal,J.S	*03	*0401	*0101	*01	*02	*03					P-SSP
4269	Dormoy,Anne	*03new	*040101	*010102	*0103	*0201	*0302			*0201	*0401	P-SSP,SBT
5891	Du,Keming	*03	*04			*0201	*0302					P-SBT,SSO
856	Dupont,Bo	*0325	*0401	*0101-07+	*0101-0302+	*0201	*0302+					SSP,SSO
5214	Eckels/CPMC	*03(DR17)	*04	*0101	*01	*02	*0302	*0301	*0501			SSOP
3428	Eckels/Utah	*03	*04			*02	*0302					SSOP
4251	Ellis,Thomas	*03	*0401	*01	*0101/03+	*0201	*0302			*0201	*0401	P-SSO,SEQ
3135	Fischer,John	*0330	*0401	*0101	*0103	*0201	*0302			*0201	*0401	SBT,P-SSP
762	Fischer/Mayr	*03var	*0401	*0101	*0103	*0201	*0302	*0301	*0501			RSSO,SSP,LBT+
8043	Gideoni,Osna	*0301	*0401			*0201	*0302					SSOP,SSP
910	Hahn,Amy B.	*0330	*0401/76	*0101	*0103	*0201/05	*0302					SSP
4691	Hajeer,Ali	*03	*04	*+	*+	*02	*02					SSO
810	Hamdi,Nuha	*0323	*040101			*020101	*030201					SSO
2344	Hurley/Hartz	*03	*040101			*020101	*030201			*020102	*040101	SBT
771	Israel,Shosh	*03	*0401			*0201	*0302					RVSSO,SSP
748	Jaramillo,An	*03(DR17)	*04	*+	*+	*02	*03(DQ8)					P-SSP
859	Kamoun,Malek	*03	*0401	*0101	*0103	*0201	*0302	*0301	*0501			SSO,SSP,SBT
797	Kato,Shunich	*0304/09/23+	*0401/13/16+			*0201-03+	*0302					SSO
4337	Kim,Tai-Gyu	*03var	*0401			*0201	*0302			*0201	*0401	SBT
168	Klein,Tirza	*0301	*0401			*0201	*0302					P-SSP,SSOP
87	Land,Geoffre	*0304/25	*0401	*0101	*0103	*0201	*0302	*0301	*0501	*0201	*0401	SSP,SBT,SSO
725	Lardy,N,M.	*03	*04	*+	*+	*02	*03	*030101	*0501			SSO,SSP
278	Lee,Jar-How	*03new	*0401	*0101	*0103	*0201/05	*0302	*0301	*0501	*0201/*1802+	*0401/*2301	SSP,RSSO,SBT
640	Lee,Kyung Wh	*03var	*0401			*0201	*0302	*030101	*050101			P-SBT
6649	Lim,Young Ae	*03	*04	*+	*+							P-SSP
274	Lo,Raymundo	*0301	*04	*+	*+	*02	*0302					SSP
731	Loewenthal,R	*03	*04			*0201	*0302					SBT,SSO,SSP
759	Lopez-Cepero	*0323/33	*0401/13/16+	*01	*01	*0201	*0302	*0301	*0501	*0201/*1802	*0401	RVSSO
23	Mah,Helen	*03	*0401	*0101	*01	*0201	*0302	*0301	*0501			SSP,RFLP,SSO
8029	Mani,Rama	*03	*04	*+	*+	*02						P-SSP
9916	McIntyre,Joh	*03new	*040101	*0101/12+	*0103	*0201	*0302					SSP,SBT
794	Merenmies,Ju	*03new	*0401	*0101	*0103	*0201	*0302	*0301	*0501	*0201	*0401	SBT,SSP,SSO
792	Moore,S.Brea	*03	*0401	*0101	*0103	*0201	*0302	*0301	*0501			P-SSO,SSP
5096	Park,Yoon Mi	*03	*04									RVSSOP
3648	Pereira,Noem	*03	*04			*0201	*0302					RVSSO,SSP
3966	Permpikul&Ve	*0330	*0401	*0101	*0103	*0201	*0302					P-SSP
2400	Phelan,Donna	*0304	*0401	*01	*0103	*0201	*0302					RVSSO,SSP
4689	Rajczy,Katal	*0330	*0401/76	*0101/12+	*0103	*0201	*0302					P-SSP
3753	Reed,Elaine	*03	*04	*0101	*0103	*0201	*0302	*0301	*0501			SBT,SSO,SSP
3625	Rees,Tracey	*03var	*0401	*0101/02+	*0101/06	*0201	*0302	*03	*05	*0201	*0401	

B-cell line TER-419

CTR	DIRNAME	DRB1	DRB1X	DRB3	DRB4	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1X	METHOD
3798	Reinsmoen,N	*03var	*040101	*0101	*0103	*0201/05	*0302	*030101	*0501	*0201	*0401	SBT,SSOP,SSP
1160	Rosen-BronGT	*03	*04	*01	*01	*02	*0302					RVSSO,SSP
793	Rubocki,Rona	*03	*04	*+	*+	*02	*03(DQ8)					
8042	Shainberg,Br	*03	*04			*02	*03					SSOP,SSP
8001	Sheikh,Maqso	*03	*0401/72/76	*0101	*0103	*0201/05	*0302					RVSSO,SSP
735	Smith/MI	*0330new	*0401/72/76	*+	*+	*0201/05	*0302	*0301	*0501	*0201	*0401	SSP,RSSO,SEQ
746	Stamm,Luz	*03	*0401	*01	*01/*02	*0201	*0302					RVSSO,SSP
13	Tagliere,Jac	*0330	*0401	*0101	*0103	*0201	*030201					SSP
747	Tiercy,Jean-	*03var	*0401	*0101	*0103	*0201	*030201			*020102	*040101	SSO,SSP,SBT
5451	Tilanus,Marc	*03new	*040101	*010102	*01030101	*020101	*030201	*030101	*050101	*020102	*040101	SBT
4021	Trachtenberg	*03	*04	*01	*01/*0201N	*0201	*03					RVSSO
5462	Turner,E.V.	*0330	*0401	*0101	*0103	*0201	*0302			*0201	*0401	SBT,SSO,SSP
5642	Varnavidou-N	*0330	*0401	*+	*+	*0201	*0302					P-SSP
705	Watkins,Dav	*03new	*0401	*+	*+	*0201	*0302	*0301	*0501	*0201/*0401+	*0401/*1802+	SSO,SEQ
3511	Zeevi,Adrian	*0301	*0401	*0101	*0103	*0201	*0302					RVSSOP,SSP

CTR	DIRNAME	DR17	DR4	DR52	DR53	DQ2	DQ8	OTH1	OTH2
3904	Cooper,E.Sha	+	+	+	+	+	+		
910	Hahn,Amy B.	DR3	+	+	+	+	DQ3		
4908	Kvam,Vonnett	+	+	+	+	+	+		
54	McAlack,Robe	+	+	+	+	+	+		
8004	Pais,Maria L	+	+	+	+	+	+		
2400	Phelan,Donna	+	+	+	+	+	+		
793	Rubocki,Rona	+	+	+	+	+	+		

B-CELL LINE TER-419 (Caucasian)

71 DNA LABS

70 LABS REPORTING DRB1	
DRB1*03	53%
DRB1*0301	6%
DRB1*0304	1%
DRB1*0323	1%
DRB1*0325	1%
DRB1*0330	18%
DRB1*0330new	1%
DRB1*03new	10%
DRB1*03var	9%
DRB1*03	100% TOTAL
DRB1*04	34%
DRB1*0401/72/76	4%
DRB1*0401/76	6%
DRB1*0401	47%
DRB1*040101	9%
DRB1*04	100% TOTAL

55 LABS REPORTING DRB3	
DRB3*+	25%
DRB3*0101	49%
DRB3*010102	4%
DRB3*01	22%

55 LABS REPORTING DRB4	
DRB4*+	27%
DRB4*0103	51%
DRB4*01030101	2%
DRB4*01	20%

69 LABS REPORTING DQB1	
DQB1*02	33%
DQB1*0201	60%
DQB1*020101	7%
DQB1*02	100% TOTAL
DQB1*03	16%
DQB1*0302	71%
DQB1*030201	10%
DQB1*03	97% TOTAL

24 LABS REPORTING DQA1	
DQA1*03	8%
DQA1*0301	75%
DQA1*030101	17%
DQA1*03	100% TOTAL
DQA1*05	8%
DQA1*0501	84%
DQA1*050101	8%
DQA1*05	100% TOTAL

20 LABS REPORTING DPB1	
DPB1*0201+	15%
DPB1*0201	65%
DPB1*020102	20%
DPB1*0401+	20%
DPB1*0401	60%
DPB1*040101	20%

7 SEROLOGY LABS

DR3	14%
DR17	86%
DR3	100% TOTAL
DR4	100%
DR52	100%
DR53	100%

DQ2	100%
DQ3	14%
DQ8	86%
DQ3	100% TOTAL

B-cell line TER-420

CTR	DIRNAME	DRB1	DRB1X	DRB4	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1X	METHOD
4079	Abbal,M.	*0401/76	*0806		*0302	*0501					P-SSP,RVSSO
5488	Adams,Sharon	*040101	*0806	*01	*030201	*050101	*0102	*0303	*030101	*040101	SSP,RSSO,SBT
2300	Allegheny Ge	NT									
5133	Baker,Judy	*040101	*0806	*0103	*030201	*050101					SSP,SBT
105	Ball,Edward	*04	*08	*+	*03	*05	*0102	*0303			P-SSP
2020	Barnardo,Mar	NT									
774	Cecka,J.Mich	*0401	*0806	*0103	*030201	*0501	*0102	*0303			SSP,SSOP
785	Chan,Soh Ha	*0401/09/67	*0802/04/06	*01	*0311	*0501	*0102	*0301-03			SBT
4492	Charron,D.	*0401/72/76	*0806	*0103	*0302	*0501	*0102/06	*0303	*0301	*0401/*5101	P-SSO,SSP
3224	Chen,Dongfen	*0401	*0806	*01	*0302	*0501	*0102	*0301-03			SBT,SSO,SSP
8021	Clark,Brenda	*0401	*0806	*0101+	*0302	*0501			*0301	*0401	P-SSP,SSO
3632	Colombe,Beth	*0401	*0806	*0103	*0302	*0501					SSP
3904	Cooper,E.Sha	*040101-0102+	*0806	*01030101+	*030201	*050101					P-SSP
5130	Costeas,Paul	*0401	*0806	*0103	*0302	*0501	*0102	*0303			SSP
779	Daniel,Claud	*040101/0102	*08	*01010101+	*03(DQ8)	*050101+					P-SSP
5219	Daniel,Dolly	*04	*08	*+	*03	*05					P-SSOP
8052	Del Pozo,Ana	*04	*08		*03	*05					SSO
5323	Dhaliwal,J.S	*0401	*0806	*0103	*03	*05					P-SSP
4269	Dormoy,Anne	NT									
5891	Du,Keming	*0401	*0806		*0302	*0501					P-SBT,SSO
856	Dupont,Bo	*0401	*0806	*0101-0302+	*0302	*0501					SSP,SSO
5214	Eckels/CPMC	*04	*08	*01	*0302	*0501	*0102	*03			SSOP
3428	Eckels/Utah	*0401	*0806		*0302/11	*0501					SSOP
4251	Ellis,Thomas	*0401	*0806	*0101/03/06	*0302	*0501			*0301/*0502	*0401	P-SSO,SEQ
3135	Fischer,John	*0401	*0806	*0103	*0302	*0501			*0301/*0502	*0401	SBT,P-SSP
762	Fischer/Mayr	*0401	*0806	*0103	*0302	*0501	*0102	*0303			RSSO,SSP,LBT+
8043	Gideoni,Osna	*0401	*0806		*0302	*0501					SSOP,SSP
910	Hahn,Amy B.	*0401/76	*0806	*0103	*0302	*0501					SSP
4691	Hajeer,Ali	*04	*08	*+	*03	*03					SSO
810	Hamdi,Nuha	*040101	*0806		*030201	*050101					SSO
2344	Hurley/Hartz	*040101	*0806		*030201	*050101			*030101/*0502	*040101	SBT
771	Israel,Shosh	*0401	*0806		*0302	*0501					RVSSO,SSP
748	Jaramillo,An	*04	*08	*+	*03(DQ8)	*05					P-SSP
859	Kamoun,Malek	*0401	*0806	*0103	*0302	*0501	*0102	*0301-03			P-SSO,SSP
797	Kato,Shunich	*0401/13/33+	*0801/06/16+		*0302/11	*0501					SSO
4337	Kim,Tai-Gyu	*0401	*0806		*0302	*0501			*0301	*0401	SBT
168	Klein,Tirza	*0401	*0806		*0302	*0501					P-SSP,SSOP
87	Land,Geoffre	*0401	*0806	*0103	*0302	*0501	*0102	*0303	*0301	*0401	SSP,SBT,SSO
725	Lardy,N,M.	*04	*08	*+	*0302	*05	*0102	*0303			SSO,SSP
278	Lee,Jar-How	*0401	*0806	*0103	*0302	*0501	*0102	*0301-03	*0301/*0502+	*0401/*2301+	SSP,RSSO,SBT
640	Lee,Kyung Wh	*0401	*0806		*0302	*0501	*010201	*0303			P-SBT
6649	Lim,Young Ae	*04	*08	*+							P-SSP
274	Lo,Raymundo	*04	*08	*+	*0302	*05					SSP
731	Loewenthal,R	*040101	*0806		*0302	*0501					SBT,SSO,SSP
759	Lopez-Cepero	*0401/13/33/38+	*0806/01/16/26	*01	*0302	*0501	*0102	*0301-03	*0301/*0502	*0401	RVSSO
23	Mah,Helen	*0401	*0806	*01	*0302	*0501	*0102	*0301-03			RVSSO
8029	Mani,Rama	*04	*08	*+	*03	*05					P-SSP
9916	McIntyre,Joh	*040101	*0806	*0103	*0302	*0501					SSP,SBT
794	Merenmies,Ju	*0401	*0806	*0103	*0302	*0501	*0102	*0303	*0301/*0502	*0401	SBT,SSP,SSO
792	Moore,S.Brea	*0401	*0806	*0103	*0302	*0501	*0102	*0303			P-SSO,SSP
5096	Park,Yoon Mi	*04	*08								RVSSOP
3648	Pereira,Noem	*0401/72/76	*0806		*0302	*0501					RVSSO,SSP
3966	Permpikul&Ve	*0401	*0806	*0103	*0302	*0501					P-SSP
2400	Phelan,Donna	*0401	*0806	*0103	*0302	*0501					RSSO,SSP
4689	Rajczy,Katal	*0401/76	*0806	*0103	*0302	*0501					P-SSP
3753	Reed,Elaine	*0401	*0806	*0103	*0302	*0501	*0102	*0301-03			SBT,SSO,SSP
3625	Rees,Tracey	NT									P-SSP,SBT

B-cell line TER-420

CTR	DIRNAME	DRB1	DRB1X	DRB4	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1X	METHOD
3798	Reinsmoen,N	*040101	*0806	*0103	*030201	*0501	*0102	*0303	*0301	*0401	SBT,SSOP,SSP
1160	Rosen-BronGT	*04	*08	*01	*03	*0501					RVSSO,SSP
793	Rubocki,Rona	*04	*08	*+	*03(DQ8)	*05					
8042	Shainberg,Br	*0401	*0806		*0302	*0501					SSOP,SSP
8001	Sheikh,Maqso	*0401/72/76	*0806	*0103/07	*0302	*0501					RVSSO,SSP
735	Smith/MI	*0401/72/76	*0806	*+	*0302	*0501	*0102	*0301-03	*0301	*0401	SSP,RSSO,SEQ
746	Stamm,Luz	*0401	*0806	*01/*02	*0302	*0501					RVSSO,SSP
13	Tagliere,Jac	*0401	*0806	*0103	*030201	*0501					SSP
747	Tiercy,Jean-	*040101	*0806	*0103	*030201	*050101			*030101	*040101	SSO,SSP,SBT
5451	Tilanus,Marc	*040101	*0806	*01030101	*030201	*050101	*010201	*0303	*030101	*040101	SBT
4021	Trachtenberg	*04	*08	*01/*0201N	*0302	*0501					RVSSO
5462	Turner,E.V.	*0401	*0806	*0103	*0302	*0501			*0301	*0401	SBT,SSO,SSP
5642	Varnavidou-N	*0401	*0806	*+	*030201	*0501					P-SSP
705	Watkins,Dav	*0401	*0806	*+	*0302	*0501	*0102	*0302/03	*0301/*0401	*0401/*0502	SSO,SEQ
3511	Zeevi,Adrian	*0401	*0806	*0103	*0302	*0501					RVSSOP,SSP

CTR	DIRNAME	DR4	DR8	DR53	DQ8	DQ1	OTH1	OTH2
3904	Cooper,E.Sha	+	+	+	+	+		
910	Hahn,Amy B.	+	+	+	DQ3	+	DR9, DR13	
4908	Kvam,Vonnett	+	+	+	+	DQ5		
54	McAlack,Robe	+	+	+	+	DQ6		
8004	Pais,Maria L	+		+	+	+	DR14, DR52	
2400	Phelan,Donna	+	+	+	+	DQ5		
793	Rubocki,Rona	+	+	+	+	+		

B-CELL LINE TER-420 (Caucasian)

68 DNA LABS

68 LABS REPORTING DRB1

DRB1*04	25%	
DRB1*0401/72/76	7%	
DRB1*0401/76	5%	
DRB1*0401	50%	
DRB1*040101	13%	
DRB1*04	100%	TOTAL
DRB1*08	26%	
DRB1*0806	74%	
DRB1*08	100%	TOTAL

52 LABS REPORTING DRB4

DRB4*+	27%	
DRB4*0103	48%	
DRB4*01030101	2%	
DRB4*01	23%	

7 SEROLOGY LABS

DR4	100%	
DR8	86%	
DR53	100%	

66 LABS REPORTING DQB1

DQB1*03	18%	
DQB1*0302	64%	
DQB1*030201	17%	
DQB1*0311	1%	
DQB1*03	100%	TOTAL
DQB1*05	15%	
DQB1*0501	73%	
DQB1*050101	11%	
DQB1*05	99%	TOTAL

23 LABS REPORTING DQA1

DQA1*01	4%	
DQA1*0102	87%	
DQA1*010201	9%	
DQA1*01	100%	TOTAL
DQA1*03	43%	
DQA1*0303	57%	
DQA1*03	100%	TOTAL

17 LABS REPORTING DPB1

DPB1*0301+	12%	
DPB1*0301/*0502	29%	
DPB1*0301	41%	
DPB1*030101	18%	
DPB1*0401+	18%	
DPB1*0401	59%	
DPB1*040101	23%	

DQ3	14%	
DQ8	86%	
DQ3	100%	TOTAL
DQ1	57%	
DQ5	29%	
DQ6	14%	
DQ1	100%	TOTAL

CTR	INVESTIGATOR NAME	DNA EXTRACT #445 (Caucasian) A1	A2	B1	B2	C1	C2	method
5488	Adams,Sharon	*010101	*020114	*151701	*570101	*06	*07	SSP,SBT,RSSO
2300	Allegheny Ge	*01	*02	*15	*57	*06	*07	RVSSO
745	Anthony Nola	*01010101	*020101	*151701	*570101	*0602	*0701/24	SSO,SSP,SBT
5133	Baker,Judy	*01	*02	*1517	*57	*06	*07	SSO
2020	Barnardo,Mar	*01010101var	*020101	*151701	*570101	*0602	*0701/06/18+	
4345	Blasczyk,Rai	*0101/01N/04N/22N	*0201/01L/09/43N+	*1517	*5701	*0602	*0701/06/18+	PCR-SBT
5106	Brown,Colin	*0101	*020114	*1517	*5701	*0602	*0701	PCR-SSOP,SBT
785	Chan,Soh Ha	*01/*3604	*02	*1517	*5701	*0602/04/11	*0701/06/09+	SBT
3224	Chen,Dongfen	*0101	*020114	*1517	*5701	*0602	*0701/06/18	SBT,SSO
8021	Clark,Brenda	*0101/02/04N/06+	*020101-0104/0106+	*1517	*5701	*0602/03/07+	*0701/06/07+	PCR-SSP
1108	Davis,Mary	*0101	*0201	*1517	*5701	*0602	*0701	SSO,SSP
5323	Dhaliwal,J.	*01	*02	*1517	*57	*06	*07	
5891	Du,Keming	*0101	*0201	*1517	*5701			PCR-SBT
3186	Dunckley,Hea	*01	*02	*1517	*57	*06	*07	SSP,SBT
3766	Dunn,Paul	*01	*02	*1517	*57	*06	*07	PCR-SSO
3428	Eckels/Utah	*01	*02	*1517	*5701/15/16			SSOP
4251	Ellis,Thomas	*0101	*0201	*1517	*5701	*0602	*0701/06/18	PCR-SSO,SEQ
762	Fischer&Mayr	*0101	*0201	*1517	*5701	*0602	*0701/06/18+	
3135	Fischer,John	*0101	*0201	*1517	*5701	*0602	*0701/06/18	PCR-SSO,SBT
4691	Hajeer,Ali	*01	*02	*15	*57	*06	*07	SSO
810	Hamdi,Nuha	*01010101	*02010101	*15170101	*570101	*0602/10-15	*070101	SSO
5803	Henrico's Do	*01	*02	*15	*57	*06	*07	SSP
615	Holdsworth,R	*0101/01N/04N/22N	*0201/01L/09/43N+	*1517	*5701	*0602	*0701/06/18+	SBT
2344	Hurley&Hartz	*01010101/010102N+	*02010101/010102L+	*15170101/170102	*570101	*06020101/020102+	*070101/0102+	SBT,SSOP
797	Kato,Shunich	*0101/01N/02+	*0201/01L/07+	*1517	*5701/06/08+	*0602/10/11+	*0701/06/09+	SSO
87	Land,Geoff	*0101	*0201	*1517	*5701	*0602	*0701	SSP,SSO,SBT
278	Lee,Jar-How	*0101/11N/22N	*0201/*9221/32/34+	*1517	*5701/16	*0602/10-13/15	*0701/09/21+	SSP,RVSSOP
640	Lee,Kyung Wh	*0101/14	*0201/*9201	*1517	*5701	*0602/04/11	*0701/06/09+	PCR-SBT
4651	Leech,Stephe	*01	*02	*1517	*5701	*06	*07	RVSSO
9916	McIntyre,Joh	*01010101	*020114	*151701	*570101	*0602/18/19	*0701/52/53+	SBT,SSP
794	Merenmies,Ju	*0101	*0201	*1517	*5701	*0602	*0701/06/18+	SBT,SSO
733	Mytilineos,J	*01	*02	*15	*57	*06	*07	PCR-SSO
8022	Olerup,Olle	*0101	*0201	*1517	*5701	*0602	*0701	SSP
5096	Park,Yoon Mi	*01	*02	*15	*57			RVSSO
3648	Pereira,Noem	*0101/01N/02/04N+	*0201/01L/07/09+	*1517	*5701/06/08/15+	*0602/10-12+	*0701/06/09+	RVSSO
2400	Phelan,Donna	*0101	*0201	*1517	*5701	*0602	*0701	RSSO,SSP,SBT
3753	Reed,Elaine	*0101/14/*3604	*0201/36/*9201	*1517	*5701	*0602/04/11	*0701/06/09+	SBT
3625	Rees,Tracey	*0101	*020114	*1517	*5701	*0602	*0701/52	PCR-SSP,SBT
3798	Reinsmoen,N	*01var	*020101/01L	*151701	*570101	*060201	*0701	SBT,RSSO,SSP
1694	Sauer&Gottwa	*01	*02	*15	*57	*06	*07	SSP
3545	Scornik,Juan	*0101	*0201	*1517	*5701	*0602	*0701/06/18	RVSSOP,SBT
8042	Shainberg,Br	*0101	*0201	*1517	*5701	*0602	*0701	SSOP,SSP
735	Smith/MI	*01	*02	*15(B63)	*57	*06	*07	RVSSOP
740	Snider,Denis	*0101	*0201	*1517	*5701	*0602	*0701	SSP
746	Stamm,Luz	*0101	*0201	*1517	*5701	*0602	*0701	RVSSO,SSP
13	Tagliere,Jac	*0101	*0201	*1517	*5701	*0602	*0701	SSP
4021	Trachtenberg	*01	*02	*1517	*57	*06	*07	RVSSO,SSP
5462	Turner,E.V.	*0101	*0201	*1517	*5701	*0602	*0701	SSP,SSO,SEQ
2847	Yamamori,Shu	*01	*02	*15	*57	*06	*07	RVSSO

CTR	INVESTIGATOR NAME	DNA EXTRACT #446 (Caucasian) A1	A2	B1	B2	C1	C2	method
5488	Adams,Sharon	*010101	*020101	*2717	*440201/19N/27	*040101/09N/30	*050101	SSP,SBT,RSSO
2300	Allegheny Ge	*01	*02	*27	*44	*04	*05	RVSSO
745	Anthony Nola	*01010101	*0201/01L	*2717	*44020101	*040101	*050101	SSO,SSP,SBT
5133	Baker,Judy	*01	*02	*27	*44	*04	*05	SSO
2020	Barnardo,Mar	*01010101	*020101	*2717	*440201	*0401/09N/28/30	*0501/03	
4345	Blasczyk,Rai	*0101/01N/04N/22N	*2402/02L/09N/11N+	*2717	*4402/02S/19N/27	*0401/09N/28/30	*0501/03	PCR-SBT
5106	Brown,Colin	*01	*02	*2703/05/13/17+	*44	*0401	*0501	PCR-SSOP,SBT
785	Chan,Soh Ha	*01/*3604	*02	*2717	*4402/11/19N/27	*0401/09N/28/30	*0501/03	SBT
3224	Chen,Dongfen	*0101	*0201	*2717	*4402/27	*0401/09N/30	*0501	SBT,SSO
8021	Clark,Brenda	*0101/02/04N/06+	*020101-0104/0106+	*2701/02/05+	*4402/11/19N+	*040101-0104+	*0501/03-07+	PCR-SSP
1108	Davis,Mary	*0101	*0201	*2717	*4402	*0401	*0501	SSO,SSP
5323	Dhaliwal,J.	*01	*02	*27	*44	*04	*05	
5891	Du,Keming	*0101	*0201	*2717	*4402/19/27			PCR-SBT
3186	Dunckley,Hea	*01	*02	*27	*44	*04	*05	SSP
3766	Dunn,Paul	*01	*02	*27	*44	*04	*05	PCR-SSO
3428	Eckels/Utah	*01	*02	*2717	*4402/02S/27/63			SSOP
4251	Ellis,Thomas	*0101	*0201	*2717	*4402/19N/27	*0401/30	*0501	PCR-SSO,SEQ
762	Fischer&Mayr	*0101	*0201	*2717	*4402/27	*0401/09N/28/30	*0501/03	
3135	Fischer,John	*0101	*0201/01L	*2717	*4402/02S/19N	*0401/09N/30	*0501	PCR-SSO,SBT
4691	Hajeer,Ali	*01	*02	*27	*44	*04	*05	SSO
810	Hamdi,Nuha	*01010101	*02010101	*2703	*44020101	*04010101	*050101	SSO
5803	Henrico's Do	*01	*02	*27	*44	*04	*05	SSP
615	Holdsworth,R	*0101/01N/04N/22N	*0201/01L/09/43N+	*2717	*4402/19N/27	*0401/09N/28/30	*0501/03	SBT
2344	Hurley&Hartz	*01010101/010102N+	*02010101/010102N+	*2717	*44020101/020102S+	*04010101/010102+	*05010101+	SBT,SSOP
797	Kato,Shunich	*0101/01N/02+	*0201/01L/07+	*2703/05/13+	*4402/02S/19N+	*0401/05/07+	*0501/03/05+	SSO
87	Land,Geoff	*0101	*0201	*2717	*4402	*0401	*0501	SSP,SSO,SBT
278	Lee,Jar-How	*0101/11N/22N	*0201/*9221/34/39+	*2717	*4402	*0401/19/20/24+	*0501/07N/15	SSP,RVSSOP
640	Lee,Kyung Wh	*0101/14	*0201/*9201	*2717	*4402/19N/27	*0401/09N/28/30	*0501/03	PCR-SBT
4651	Leech,Stephe	*01	*02	*27	*44	*04	*05	RVSSO
9916	McIntyre,Joh	*01010101	*020101	*2717	*44020101	*0401/28/30/31+	*0501/19/21+	SBT,SSP
794	Merenmies,Ju	*0101	*0201	*2717	*4402/27	*0401/28/30	*0501/03	SBT,SSO
733	Mytilineos,J	*01	*02	*27	*44	*04	*05	PCR-SSO
8022	Olerup,Olle	*0101	*0201	*2717	*4402	*0401	*0501	SSP
5096	Park,Yoon Mi	*01	*02	*27	*44			RVSSO
3648	Pereira,Noem	*0101/01N/02/04N+	*0201/01L/07/09+	*2703/05/13/17+	*4402/02S/19N/21+	*0401/05/07/09N+	*0501/03/05+	RVSSO
2400	Phelan,Donna	*0101	*0201	*2705	*4402	*0401	*0501	RSSO,SSP,SBT
3753	Reed,Elaine	*0101/14/*3604	*0201/36/*9201	*2717	*4402/19N/27	*0401/09N/30	*0501	SBT
3625	Rees,Tracey	*0101	*0201	*2717	*4402	*0401/28/30	*0501	PCR-SSP,SBT
3798	Reinsmoen,N	*010101/01N	*020101/01L	*2717	*440201/01S	*040101/30	*050101	SBT,RSSO,SSP
1694	Sauer&Gottwa	*01	*02	*27	*44	*04	*05	SSP
3545	Scornik,Juan	*0101	*0201	*2717	*4402/19N/27	*0401/28/30	*0501	RVSSOP,SBT
8042	Shainberg,Br	*0101	*0201	*2717	*4402	*0401	*0501	SSOP,SSP
735	Smith/MI	*01	*02	*27	*44	*04	*05	RVSSOP
740	Snider,Denis	*0101	*0201	*2717	*4402	*0401	*0501	SSP
746	Stamm,Luz	*0101	*0201	*2717	*4402	*0401	*0501	RVSSO,SSP
13	Tagliere,Jac	*0101	*0201	*2717	*4402	*0401	*0501	SSP
4021	Trachtenberg	*01	*02	*27	*44	*04	*05	RVSSO,SSP
5462	Turner,E.V.	*0101	*0201	*2717	*4402	*0401	*0501	SSP,SSO,SEQ
2847	Yamamori,Shu	*01	*02	*27	*44	*04	*05	RVSSO

CTR	INVESTIGATOR NAME	DNA EXTRACT #447 (Caucasian) A1	A2	B1	B2	C1	C2	method
5488	Adams,Sharon	*020101	*0224	*070201/61	*2705/13	*020202	*070201/50	SSP,SBT,RSSO
2300	Allegheny Ge	NT						
745	Anthony Nola	*020101	*0224	*0702/61	*2705	*020202	*070201	SSO,SSP,SBT
5133	Baker,Judy	*02		*07	*27	*02	*07	SSO
2020	Barnardo,Mar	*020101		*070201/61	*270502/13	*020202	*0702/50	
4345	Blasczyk,Rai	*0201/01L/09/43N+	*0224	*0702/44/49N/58+	*2705/13	*0202	*0702/50	PCR-SBT
5106	Brown,Colin	*0201	*0224	*0702	*2705	*0202	*0702	PCR-SSOP,SBT
785	Chan,Soh Ha	*02	*0224	*0702/35/42/44+	*2705/13	*0202	*0702/50	SBT
3224	Chen,Dongfen	*0201	*0224	*0702/61	*2705	*0202	*0702/50	SBT,SSO
8021	Clark,Brenda	*0201-03+		*0702/04/10+	*2701-03+	*0202/04-15+	*0702/03/10+	PCR-SSP
1108	Davis,Mary	*0201	*0224	*0702	*2705	*0202	*0702	SSO,SSP
5323	Dhaliwal,J.	*02		*07	*27	*02	*07	
5891	Du,Keming	*0201	*0224	*0702	*2705/13			PCR-SBT
3186	Dunckley,Hea	*02		*07	*27	*02	*07	SSP
3766	Dunn,Paul	*02		*07	*27	*02	*07	PCR-SSO
3428	Eckels/Utah	*02	*0224/86	*07	*2705/13/32/37			SSOP
4251	Ellis,Thomas	*0201	*0224	*0702/61	*2705	*0202	*0702/50	PCR-SSO,SEQ
762	Fischer&Mayr	*0201	*0224	*0702/44/49N/58+	*2705	*0202	*0702/50	
3135	Fischer,John	*0201/01L	*0224	*0702	*2705	*0202	*0702	PCR-SSO,SBT
4691	Hajeer,Ali	*02	*02	*07	*27	*02	*07	SSO
810	Hamdi,Nuha	*02010101	*0230	*070201	*2703	*020202	*07020101	SSO
5803	Henrico's Do	*02		*07	*27	*02	*07	SSP
615	Holdsworth,R	*0201/01L/09/43N+	*0224	*0702/44/49N/58+	*2705/13	*0202	*0702/50	SBT
2344	Hurley&Hartz	*02010101/010102L+	*0224	*070201/0206/44+	*270502/0504/13	*020202	*07020101+	SBT,SSOP
797	Kato,Shunich	*0201/01L/04+		*0702/10/18+	*2703/05/13+	*0202/07/08+	*0702/13/29+	SSO
87	Land,Geoff	*0201	*0224	*0702	*2705	*0202	*0702	SSP,SSO,SBT
278	Lee,Jar-How	*0201/*9221/32/34+	*0224	*0702/22/49N/58+	*2705	*0202/09/11/15+	*0702/29/39+	SSP,RVSSOP
640	Lee,Kyung Wh	*0201	*0224	*0702/44/49N/58+	*2705/13	*0202	*0702/50	PCR-SBT
4651	Leech,Stephe	*02	*02	*07	*27	*02	*07	RVSSO
9916	McIntyre,Joh	*020101	*0224	*0702/61	*2705/13	*0202	*0702/54/56+	SBT,SSP
794	Merenmies,Ju	*0201	*0224	*0702/61	*2705/13	*0202	*0702/50	SBT,SSO
733	Mytilineos,J	*02		*07	*27	*02	*07	PCR-SSO
8022	Olerup,Olle	*0201	*0224	*0702	*2705	*0202	*0702	SSP
5096	Park,Yoon Mi	*02	*02	*07	*27			RVSSO
3648	Pereira,Noem	*0201/01L/04/07+	*0201/01L/04/07+	*0702/10/18/21+	*2703/05/13/17+	*0202/07-09+	*0702/13/29+	RVSSO
2400	Phelan,Donna	*0201/*0224		*0702	*2705	*0202	*0702	RSSO,SSP,SBT
3753	Reed,Elaine	*0201	*0224	*0702/61	*2705/13	*0202	*0702/50	SBT
3625	Rees,Tracey	*0201	*0224	*0702/61	*2705	*02	*0702	PCR-SSP,SBT
3798	Reinsmoen,N	*020101/01L	*0224	*070201/61	*2705/13	*020202	*070201/50	SBT,RSSO,SSP
1694	Sauer&Gottwa	*02		*07	*27	*02	*07	SSP
3545	Scornik,Juan	*0201	*0224	*0702/61	*2705/13	*0202	*0702/50	RVSSOP,SBT
8042	Shainberg,Br	*0201	*0294N	*0702	*2705	*0202	*0702	SSOP,SSP
735	Smith/MI	*02		*07	*27	*02	*07	RVSSOP
740	Snider,Denis	*0201	*0224	*0702	*2705	*0202	*0702	SSP
746	Stamm,Luz	*0201	*0224	*0702	*2705	*0202	*0702	RVSSO,SSP
13	Tagliere,Jac	*0201	*0224	*0702	*2705	*0202	*0702	SSP
4021	Trachtenberg	*02		*07	*27	*02	*07	RVSSO,SSP
5462	Turner,E.V.	*0201	*0224	*0702	*2705	*0202	*0702	SSP,SSO,SEQ
2847	Yamamori,Shu	*02		*07	*27	*02	*07	RVSSO

CTR	INVESTIGATOR NAME	DNA EXTRACT #448 (Caucasian) A1	A2	B1	B2	C1	C2	method
5488	Adams,Sharon	*0201	*2402	*0710	*440201/19N	*050101	*070201/50	SSP,SBT,RSSO
2300	Allegheny Ge	NT						
745	Anthony Nola	*0201	*2402	*0710	*44020101	*050101	*070201	SSO,SSP,SBT
5133	Baker,Judy	*02	*24	*07	*44	*05	*07	SSO
2020	Barnardo,Mar	*020101	*240201	*0710	*440201/19N/20/27+	*050101/03	*0702/50	
4345	Blasczyk,Rai	*0201/01L/09/43N+	*2402/02L/09N/11N+	*0710	*4402/02S/19N/27	*0501/03	*0702/50	PCR-SBT
5106	Brown,Colin	*0201	*2402	*0710	*4402/19N	*05	*07	PCR-SSOP,SBT
785	Chan,Soh Ha	*02	*24	*0710	*4402/19N/27	*0501/03/11	*0702/37/50	SBT
3224	Chen,Dongfen	*0201	*2402	*0710	*4402	*0501	*0702/50	SBT,SSO
8021	Clark,Brenda	*020101-0104/0106+	*2402/03/07+	*0702/04/10+	*4402/11/19N+	*0501/03-07+	*0702/03/10+	PCR-SSP
1108	Davis,Mary	*0201	*2402	*0710	*4402/27	*0501	*0702	SSO,SSP
5323	Dhaliwal,J.	*02	*24	*07	*44	*05	*07	
5891	Du,Keming	*0201	*2402	*0710	*4402/19N			PCR-SBT
3186	Dunckley,Hea	*02	*24	*07	*44	*05	*07	SSP
3766	Dunn,Paul	*02	*24	*07	*44	*05	*07	PCR-SSO
3428	Eckels/Utah	*02	*24	*0710	*4402/02S/27/63			SSOP
4251	Ellis,Thomas	*0201	*2402	*0710	*4402/19N	*0501	*0702/50	PCR-SSO,SEQ
762	Fischer&Mayr	*0201	*2402	*0710	*4419N	*0501/03	*0702/50	
3135	Fischer,John	*0201/01L	*2402	*0710	*4402/02S/19N	*0501	*0702	PCR-SSO,SBT
4691	Hajeer,Ali	*02	*24	*07	*44	*05	*07	SSO
810	Hamdi,Nuha	*02010101	*24020101	*070201	*44020101	*050101	*07020101	SSO
5803	Henrico's Do	*02	*24	*07	*44	*05	*07	SSP
615	Holdsworth,R	*0201/01L/09/43N+	*2402/09N/11N/40N+	*0710	*4402/19N/27	*0501/03	*0702/50	SBT
2344	Hurley&Hartz	*02010101/010102L+	*24020101/020102L+	*0710	*44020101/020102S+	*05010101/010102+	*07020101+	SBT,SSOP
797	Kato,Shunich	*0201/01L/04+	*2402/03/09N+	*0702/10/21+	*4402/02S/19N+	*0501/03/05+	*0702/32N/38+	SSO
87	Land,Geoff	*0201	*2402	*0710	*4402	*0501	*0702	SSP,SSO,SBT
278	Lee,Jar-How	*0201/*9221/32/34+	*2402/76/78/79+	*0710	*4402	*0501	*0702/32N/48+	SSP,RVSSOP
640	Lee,Kyung Wh	*0201/04/12/36/70+	*2402/03/13/14/28+	*0710	*4402/19N/27	*0501/03	*0702/50	PCR-SBT
4651	Leech,Stephe	*02	*24	*07	*44	*05	*07	RVSSO
9916	McIntyre,Joh	*020101	*24020101	*0710	*44020101	*0501/19/21	*0702/54/56+	SBT,SSP
794	Merenmies,Ju	*0201	*2402	*0710	*4402	*0501/03	*0702/50	SBT,SSO
733	Mytilineos,J	*02	*24	*07	*44	*05	*07	PCR-SSO
8022	Olerup,Olle	*0201	*2402	*0710	*4402	*0501	*0702	SSP
5096	Park,Yoon Mi	*02	*24	*07	*44			RVSSO
3648	Pereira,Noem	*0201/01L/04/07+	*2402/03/09N/11N+	*0702/04/10/21+	*4402/02S/19N/23N+	*0501/03/05/06+	*0702/32N/38+	RVSSO
2400	Phelan,Donna	*0201	*2402	*0710	*4402	*0501	*0702/50	RSSO,SSP,SBT
3753	Reed,Elaine	*0201/04/12/36/70+	*2402/03/13/14/28+	*0710	*4402/19N	*0501/11	*0702/37/50	SBT
3625	Rees,Tracey	*0201//*0290	*2402//*2430	*07	*44	*0501	*07	PCR-SSP,SBT
3798	Reinsmoen,N	*020101/01L	*240201/01L	*0710	*440201/0201S/19N	*050101	*070201/50	SBT,RSSO,SSP
1694	Sauer&Gottwa	*02	*24	*07	*44	*05	*07	SSP
3545	Scornik,Juan	*0201/12	*2402/13	*0710	*4402/19N	*0501	*0702/50	RVSSOP,SBT
8042	Shainberg,Br	*0201	*2402	*07	*44	*0501	*0702	SSOP,SSP
735	Smith/MI	*02	*24	*07	*44	*05	*07	RVSSOP
740	Snider,Denis	*0201	*2402	*0710	*4402	*0501	*0702	SSP
746	Stamm,Luz	*0201	*2402	*0710	*4402	*0501	*0702	RVSSO,SSP
13	Tagliere,Jac	*0201	*2402	*0702	*4402	*0501	*0702	SSP
4021	Trachtenberg	*02	*24	*07	*44	*05	*07	RVSSO,SSP
5462	Turner,E.V.	*0201	*2402	*0710	*4402	*0501	*0702	SSP,SSO,SEQ
2847	Yamamori,Shu	*02	*24	*07	*44	*05	*07	RVSSO

SUMMARY

Extract 445 (Caucasian)

49 labs

A*01	47%
A*0101	37%
A*010101	2%
A*01010101	6%
A*01var	2%
A*01010101var	2%
A*01	96% TOTAL
A*02	51%
A*0201	33%
A*020101	4%
A*02010101	2%
A*020114	10%
A*02	100% TOTAL

49 labs

B*15	16%
B*1517	70%
B*151701	12%
B*15170101	2%
B*15	100% TOTAL
B*57	35%
B*5701	51%
B*570101	14%
B*57	100% TOTAL

46 labs

Cw*06	50%
Cw*0602	48%
Cw*060201	2%
Cw*06	100% TOTAL
Cw*07	50%
Cw*0701/06/18/52	13%
Cw*0701/06/18	9%
Cw*0701/52	2%
Cw*0701	24%
Cw*070101	2%
Cw*07	100% TOTAL

Extract 446 (Caucasian)

49 labs

A*01	49%
A*0101	37%
A*010101	2%
A*01010101	8%
A*01	96% TOTAL
A*02	53%
A*0201	39%
A*020101	6%
A*02010101	2%
A*02	100% TOTAL

49 labs

B*27	37%
B*2703	2%
B*2705	2%
B*2717	59%
B*27	100% TOTAL
B*44	41%
B*4402/19N/27	18%
B*4402/19N	2%
B*4402/27	6%
B*4402	25%
B*440201	2%
B*44020101	6%
B*44	100% TOTAL

46 labs

Cw*04	39%
Cw*0401/09N/28/30	15%
Cw*0401/09N/30	9%
Cw*0401/28/30	7%
Cw*0401/30	4%
Cw*0401	22%
Cw*040101	2%
Cw*04010101	2%
Cw*04	100% TOTAL
Cw*05	39%
Cw*0501/03	17%
Cw*0501	35%
Cw*050101	9%
Cw*05	100% TOTAL

Extract 447 (Caucasian)

48 labs

A*02	48%
A*0201	42%
A*020101	8%
A*02010101	2%
A*02	100% TOTAL
A*02	38%
A*0224	56%
A*0230	2%
A*0294N	2%
A*02	98% TOTAL

48 labs

B*07	50%
B*0702/61	17%
B*070201/61	6%
B*0702	25%
B*070201	2%
B*07	100% TOTAL
B*27	35%
B*2705/13	25%
B*270502/13	2%
B*2703	2%
B*2705	36%
B*27	100% TOTAL

45 labs

Cw*02	38%
Cw*0202	49%
Cw*020202	13%
Cw*02	100% TOTAL
Cw*07	38%
Cw*0702/50	24%
Cw*070201/50	7%
Cw*0702	27%
Cw*070201	2%
Cw*07020101	2%
Cw*07	100% TOTAL

Extract 448 (Caucasian)

48 labs

A*02	54%
A*0201	40%
A*020101	4%
A*02010101	2%
A*02	100% TOTAL
A*24	54%
A*2402	40%
A*240201	2%
A*24020101	4%
A*24	100% TOTAL

48 labs

B*07	38%
B*0702	4%
B*0710	58%
B*07	100% TOTAL
B*44	42%
B*4402/19N/27	10%
B*4402/19N	17%
B*4402/27	2%
B*4402	21%
B*440201	6%
B*44020101	2%
B*44	100% TOTAL

45 labs

Cw*05	42%
Cw*0501/03	16%
Cw*0501	33%
Cw*050101	9%
Cw*05	100% TOTAL
Cw*07	47%
Cw*0702/50	24%
Cw*070201/50	5%
Cw*0702	20%
Cw*070201	2%
Cw*07020101	2%
Cw*07	100% TOTAL

CTR	INVESTIGATOR NAME	CELL NO.1357 (Hispanic) A1	A2	B1	B2	C1	C2	method
745	Anthony Nola	*24020101	*3305	*140201	*4501	*0802	*160101	SSO,SSP,SBT
2020	Barnardo,Mar	*240201	*3305	*1402/09	*4501/03/07	*0802	*160101	
5106	Brown,Colin	*2402	*3305	*1402	*4501/07	*0802/12	*1601/08	PCR-SSOP,SBT
774	Cecka,J.Mich	*24	*33	*1402-04/06/09	*45	*08	*16	SSP,SSOP
5232	Charlton,Ron	*2402	*3301	*1402	*4501	*0802	*1601	RVSSO,SSP
4492	Charron,D.	*24	*33	*14	*45			PCR-SSP
798	Claas,F.H.J.	*24020101	*3305	*140201	*4501	*0802	*160101	RLB,SBT
3632	Colombe,Beth	*2402	*3305	*1402	*4501	*0802	*1601	SSP
3904	Cooper,E.Sha	*24	*33	*1402/09	*45	*08	*16	PCR-SSP
5130	Costeas,Paul	*2402	*3305	*1402	*4501	*0802	*1601	SSP
779	Daniel,Claud	*24	*33	*140201-04/0601+	*4501/03/05/07	*08	*16	PCR-SSP
8052	Del Pozo,Ana	*24	*33	*1402	*45			PCR-SSO
4269	Dormoy,Anne	*24020101	*3305	*140201	*4501	*0802	*160101	PCR-SSP,SBT
3186	Dunckley,Hea	*24	*33	*1402/03/09	*45	*08	*16	SSP
3766	Dunn,Paul	*24	*33	*1402/09	*4501-03/07	*0802/05/12	*1601/08/11	SSO
856	Dupont,Bo	NT						
5214	Eckels/CPMC	*24	*33	*14(B65)	*45	*08	*16	SSOP
2332	Elkhalifa,Mo	*24	*33	*14	*45	*08	*16	RVSSO
4251	Ellis,Thomas	*2402	*3305	*1402	*4501	*0802	*1601	PCR-SSO,SEQ
762	Fischer&Mayr	*2402	*3305	*1402	*4501/07	*0802	*1601	SSO,SSP,SBT
8043	Gideoni,Osna	*2402	*3305	*1402	*4501	*0802/12	*1601	SSOP,SSP
810	Hamdi,Nuha	*24020101	*3301	*140201	*4501	*0802	*1601/08/11	SSO
3808	Hogan,Patric	*24	*33	*1402/03/09	*45	*08	*16	SSP
771	Israel,Shosh	*2402	*3301/05	*1402	*4501	*0802	*1601	
859	Kamoun,Malek	*2402	*3305	*1402	*4501	*0802	*1601	PCR-SSO,SSP
4337	Kim,Tai-Gyu	*2402/09N	*3305	*1402	*4501	*0802	*1601	SBT
168	Klein,Tirza	*2402	*3305	*1402	*4501/07	*0802/12/15	*1601	PCR-SSO,SSP
278	Lee,Jar-How	*2402/76/78/79+	*3301/05	*1402/09	*4501/07	*0802/12	*1601/08	SSP,RVSSOP
6649	Lim,Young Ae	*24	*33	*14(B65)	*45	*08		PCR-SSP
731	Loewenthal,R	*24	*33	*14	*45	*08		SBT,SSO
759	Lopez-Cepero	*2402/15/20/21+	*3301/03-06+	*1402	*4501-03/07	*0802/05/12	*1601/08	RVSSO
8029	Mani,Rama	*24	*33	*14	*45			PCR-SSP
792	Moore,S.Brea	*2402	*3305	*1402	*4501	*0802	*1601	PCR-SSO,SSP
4336	Park,Myoung	*24	*3301/04/05	*1402/04	*45	*08	*1601/08	RVSSO
16	Pidwell,Dian	*240201	*3305	*140201	*4501	*0802	*160101	RSSO,SBT,SSP
4689	Rajczy,Katal	*2402/03/20/21+	*3301/04-06/10+	*1402/06	*4501/07	*0802/04/07/12+	*1601/06/08/10	PCR-SSO,SSP
3625	Rees,Tracey	*2402	*3305	*1402	*4501	*0802	*1601	PCR-SSP,SBT
5200	Reinke,Denni	*24	*33	*14(B65)	*45	*08	*16	SSP
1160	Rosen-BronGT	*24	*33	*1402	*45	*08	*16	SSP,RVSSO
793	Rubocki,Ron	*24	*33	*14(B65)	*45			PCR-SSP
4948	Sage,Deborah	*2402	*3301	*1402	*4501/07	*0802	*1601	
8001	Sheikh,Maqso	*24	*33	*1402	*45	*08	*16	SSOP,SSP
769	Tavoularis,S	*2402	*3305	*1402	*4501	*0802	*1601	SSO,SBT,SSP
747	Tiercy,Jean-	*2402	*3305	*140201	*4501	*0802	*1601	SSO,SSP,SBT
5451	Tilanus,Marc	*24020101	*3305	*140201	*4501	*0802	*160101	SBT
5462	Turner,E.V.	*2402	*3305	*1402	*4501	*0802	*1601	SSO,SSP,SEQ
5642	Varnavidou-N	*24	*33	*14	*45	*08	*16	PCR-SSP,SSO
705	Watkins,Davi	*2402g	*3301/03-06/10+	*1402/09	*4501/07	*0802/12	*1601/08/11	

CTR	INVESTIGATOR NAME	CELL NO.1358 (Black) A1	A2	B1	B2	C1	C2	method
745	Anthony Nola	*290201	*300201	*490101	*1510	*0304	*0701	SSO,SSP,SBT
2020	Barnardo,Mar	*290201	*3002	*4901	*1510	*0304/08/38	*0701/06/18/27+	
5106	Brown,Colin	*29	*3002/10	*4901	*1510/90	*03	*07	PCR-SSOP,SBT
774	Cecka,J.Mich	*29	*30	*4901	*1510	*03	*07	SSP,SSOP
5232	Charlton,Ron	*2902	*3002	*4901	*1510	*0304	*0701	RVSSO,SSP
4492	Charron,D.	*29	*30	*4901	*15			PCR-SSP
798	Claas,F.H.J.	*290201	*300201	*490101	*1510	*030402	*0701	RLB,SBT
3632	Colombe,Beth	*2902	*3002	*4901	*1510	*0304	*0701	SSP
3904	Cooper,E.Sha	*29	*30	*4901	*1510	*0304/06/08	*07	PCR-SSP
5130	Costeas,Paul	*2902	*3002	*4901	*1510	*0304	*0701	SSP
779	Daniel,Claud	*29	*30	*4901	*15(B71)	*03(Cw10)	*07	PCR-SSP
8052	Del Pozo,Ana	*29	*30	*4901	*1510/90			PCR-SSO
4269	Dormoy,Anne	NT						
3186	Dunckley,Hea	*29	*30	*49	*1510/37/90/*9519+	*0304-06/08-10+	*07	SSP
3766	Dunn,Paul	*29	*3002/10/12	*4901	*1510/90	*0304g	*0701g	SSO
856	Dupont,Bo	*2901/02/04/06+	*3002/10/12	*4901	*1510/90	*0304+	*0701/14/27	SSO
5214	Eckels/CPMC	*29	*30	*4901	*15(B71)	*03(Cw10)	*07	SSOP
2332	Elkhalifa,Mo	*29	*30	*49	*15	*03	*07	RVSSO
4251	Ellis,Thomas	*2902	*3002	*4901	*1510	*0304	*0701/06/18/52	PCR-SSO,SEQ
762	Fischer&Mayr	*2902	*3002	*4901	*1510	*0304	*0701/06/18/52	SSO,SSP,SBT
8043	Gideoni,Osna	*2902	*3002	*4901	*1510	*0304	*0701	SSOP,SSP
810	Hamdi,Nuha	*29010101	*300201	*4901	*1510	*0309	*070101	SSO
3808	Hogan,Patric	*29	*30	*4901	*1510/90/99	*03	*07	SSP
771	Israel,Shosh	*2902	*3002	*4901	*1510	*0304	*0701	
859	Kamoun,Malek	*2902	*3002	*4901	*1510	*0304/44/46	*0701	PCR-SSO,SSP
4337	Kim,Tai-Gyu	*2902	*3002	*4901	*1510	*0304	*0701	SBT
168	Klein,Tirza	*2902	*3002	*4901	*1510	*0304	*0701	PCR-SSO,SSP
278	Lee,Jar-How	*2902/10	*3002	*4901	*1510	*0304/23/24/44+	*0701/24/35/36+	SSP,RVSSOP
6649	Lim,Young Ae	*29	*30	*49	*15(B70)	*03	*07	PCR-SSP
731	Loewenthal,R	*290201	*300201	*4901	*1510	*0304/08/18	*0701/27/40	SBT,SSO
759	Lopez-Cepero	*2901/02/04/06+	*3002/10/12	*4901	*1510/90	*0304/06/08/09+	*0701/05/06/16+	RVSSO
8029	Mani,Rama	*29	*30	*49	*15			PCR-SSP
792	Moore,S.Brea	*2902	*3002	*4901	*1510	*0304	*0701	PCR-SSO,SSP
4336	Park,Myoung	*29	*3002/10/12	*4901	*1510/90	*03	*07	RVSSO
16	Pidwell,Dian	*290201	*300201	*490101	*1510	*0304//*0308//+	*0701//*0727//+	RSSO,SBT,SSP
4689	Rajczy,Katal	*2901/02/04/06+	*3002/25/28	*4901	*1510/90	*0304/06/09/10+	*0701/06/16/18+	PCR-SSO,SSP
3625	Rees,Tracey	*2902	*3002	*4901	*1510	*0304	*0701	PCR-SSP,SBT
5200	Reinke,Denni	*29	*30	*49	*15(B71)	*03(Cw10)	*07	SSP
1160	Rosen-BronGT	*29	*30	*4901	*1510	*03	*07	SSP,RVSSO
793	Rubocki,Ron	*29	*30	*49	*15(B70)			PCR-SSP
4948	Sage,Deborah	*2902	*3002	*4901	*1510	*0304/08/38	*0701/06/18/27+	
8001	Sheikh,Maqso	*29	*30	*49	*1510	*0304/06/08/09+	*07	SSOP,SSP
769	Tavoularis,S	*2902	*3002	*4901	*1510	*0304	*0701	SSO,SBT,SSP
747	Tiercy,Jean-	*2902	*3002	*490101	*1510	*0304	*0701	SSO,SSP,SBT
5451	Tilanus,Marc	*290201	*300201	*490101	*1510	*0304	*0701	SBT
5462	Turner,E.V.	*2902	*3002	*4901	*1510	*0304	*0701	SSO,SSP,SEQ
5642	Varnavidou-N	*29	*30	*49	*15	*03	*07	PCR-SSP,SSO
705	Watkins,Davi	*2902/04/06/08N+	*3002/10	*4901	*1510/90	*0308/17/29	*0701g	

CTR	INVESTIGATOR NAME	CELL NO.1359 (Vietnamese) A1	A2	B1	B2	C1	C2	method
745	Anthony Nola	*0207	*110101	*460101	*5401	*010201		SSO,SSP,SBT
2020	Barnardo,Mar	*0207	*110101	*460101	*5401	*0102		
5106	Brown,Colin	*0207	*1101	*4601/10	*5401/02/13	*01		PCR-SSOP,SBT
774	Cecka,J.Mich	*0207	*11	*46	*5401/13	*01		SSP,SSOP
5232	Charlton,Ron	*0207	*1101	*4601	*5401	*0102	*0102	RVSSO,SSP
4492	Charron,D.	*0201/*9216	*1101/33/34/36+	*4601	*5401/16/17	*0102/22		PCR-SSP
798	Claas,F.H.J.	*0207	*110101	*460101	*5401	*010201		RLB,SBT
3632	Colombe,Beth	*0207	*1101	*4601	*5401	*0102		SSP
3904	Cooper,E.Sha	*02	*11	*46	*54	*0102		PCR-SSP
5130	Costeas,Paul	*0207	*1101	*4601	*5401	*0102		SSP
779	Daniel,Claud	*02	*11	*46	*54	*01		PCR-SSP
8052	Del Pozo,Ana	*02	*11	*46	*54			PCR-SSO
4269	Dormoy,Anne	NT						
3186	Dunckley,Hea	*02	*11	*46	*54	*01		SSP,SBT
3766	Dunn,Paul	*02	*11	*4601/02/10/15N	*5401/02/07/13	*01		SSO
856	Dupont,Bo	*0207/15N/18	*1101-03/08/09+	*4601/02/09/10+	*5401/07/08N/13+	*0102/06-08/11/13/15/18-20		SSO
5214	Eckels/CPMC	*02	*11	*46	*54	*01	*01	SSOP
2332	Elkhalifa,Mo	*02	*11	*46	*54	*01		RVSSO
4251	Ellis,Thomas	*0207	*1101	*4601	*5401	*0102	*0102	PCR-SSO,SEQ
762	Fischer&Mayr	*0207/15N	*1101/21N	*4601/15N	*5401/17	*0102		SSO,SSP,SBT
8043	Gideoni,Osna	*0207	*1101	*4601	*5401	*0102		SSOP,SSP
810	Hamdi,Nuha	*02010101	*110101	*4602	*5401	*010201	*0107	SSO
3808	Hogan,Patric	*02	*11	*46	*54	*01		SSP
771	Israel,Shosh	*0207	*1101	*4601	*5401	*0102		
859	Kamoun,Malek	*0207	*1101	*46	*5401	*01		PCR-SSO,SSP
4337	Kim,Tai-Gyu	*0207/15N/18	*1101	*4601	*5401	*0102		SBT
168	Klein,Tirza	*0207	*1101	*4601	*5401	*0102		PCR-SSO,SSP
278	Lee,Jar-How	*0207	*1101	*4601	*5401	*0102		SSP,RVSSOP
6649	Lim,Young Ae	*02	*11	*46	*54	*01		PCR-SSP
731	Loewenthal,R	*0207	*110101	*4601	*5401	*010201		SBT,SSO
759	Lopez-Cepero	*0201/07/09/18+	*1101-03/06/07+	*4601/02/10	*5401/02/07/13	*0102/07/08/11/15+		RVSSO
8029	Mani,Rama	*02	*11	*46	*54			PCR-SSP
792	Moore,S.Brea	*0207	*1101	*4601/10/15N	*5401/13	*0102		PCR-SSO,SSP
4336	Park,Myoung	*0207/15N/18	*11	*46	*54	*01		RVSSO
16	Pidwell,Dian	*0207	*110101	*460101//*4618	*5401//*5406	*010201		RSSO,SBT,SSP
4689	Rajczy,Katal	*0201/07/09/18+	*1101/02/04/07+	*4601/02	*5401/13	*0102/03/05-07+		PCR-SSO,SSP
3625	Rees,Tracey	*0201//*0207	*1136//*1101	*4601	*5401	*0102		PCR-SSP,SBT
5200	Reinke,Denni	*02	*11	*46	*54	*01		SSP
1160	Rosen-BronGT	*02	*11	*46	*54	*01		SSP,RVSSO
793	Rubocki,Ron	*02	*11	*46	*54			PCR-SSP
4948	Sage,Deborah	*0207	*1101	*4601	*5401	*0102	*0102	
8001	Sheikh,Maqso	*02	*11	*46	*54	*01		SSOP,SSP
769	Tavoularis,S	*0207	*1101	*4601	*5401	*0102		SSO,SBT,SSP
747	Tiercy,Jean-	NT						
5451	Tilanus,Marc	*0207	*110101	*460101	*5401	*0102		SBT
5462	Turner,E.V.	*0207	*1101	*4601	*5401	*0102		SSO,SSP,SEQ
5642	Varnavioud-N	*02	*11	*46	*54	*01		PCR-SSP,SSO
705	Watkins,Davi	*0201g	*1101g	*4601/10/15N	*5401/02/13	*01		

CTR	INVESTIGATOR NAME	CELL NO.1360 (Chinese) A1	A2	B1	B2	C1	C2	method
745	Anthony Nola	*1101	*2402	*1525	*4001	*030401	*0403	SSO,SSP,SBT
2020	Barnardo,Mar	*110101	*240201	*1525	*4001	*0310	*0403	
5106	Brown,Colin	*1101	*2402	*1525	*4001	*03	*0403/06	PCR-SSOP,SBT
774	Cecka,J.Mich	*11	*24	*1525	*40	*03	*0403/06/16	SSP,SSOP
5232	Charlton,Ron	*1101	*2402	*1525	*4001	*0304	*0403	RVSSO,SSP
4492	Charron,D.	*1101/33/34/36+	*2402/71/88/90N	*1525	*4001/79/81/84/88	*0304/47/48	*0403	PCR-SSP
798	Claas,F.H.J.	*110101	*24020101	*1525	*4001	*030401	*0403	RLB,SBT
3632	Colombe,Beth	*1101	*2402	*1525	*4001	*0304	*0403	SSP
3904	Cooper,E.Sha	*11	*24	*1525	*4001/62/65-67	*0304/06/08	*04	PCR-SSP
5130	Costeas,Paul	*1101	*2402	*1525	*4001	*0304	*0403	SSP
779	Daniel,Claud	*11	*24	*15(B62)	*40(B60)	*03(Cw10)	*04	PCR-SSP
8052	Del Pozo,Ana	*11	*24	*1525	*40(B60)			PCR-SSO
4269	Dormoy,Anne	NT						
3186	Dunckley,Hea	*11	*24	*1506/25/39/40+	*4001/22N/30/34+	*0304-06/08-10+	*04	SSP
3766	Dunn,Paul	*11	*24	*1525	*4001g	*0304g	*0403/06	SSO
856	Dupont,Bo	*1101-03/08/09+	*2402+	*1525	*4001/14/22N/43+	*0304+	*0403/06	SSO
5214	Eckels/CPMC	*11	*24	*1525	*40(B60)	*03(Cw10)	*04	SSOP
2332	Elkhalifa,Mo	*11	*24	*15	*40	*03	*04	RVSSO
4251	Ellis,Thomas	*1101	*2402	*1525	*4001	*0304	*0403	PCR-SSO,SEQ
762	Fischer&Mayr	*1101/21N	*2402	*1525	*4001/55	*0304	*0403	SSO,SSP,SBT
8043	Gideoni,Osna	*1101	*2402	*1525	*4001	*0304	*0403	SSOP,SSP
810	Hamdi,Nuha	*110101	*24020101	*1525	*400101	*0309	*0403	SSO
3808	Hogan,Patric	*11	*24	*1525	*40	*03	*04	SSP
771	Israel,Shosh	*1101	*2402	*1525	*4001	*0304	*0403	
859	Kamoun,Malek	*1101	*2402	*1525	*4001	*0304	*0403	PCR-SSO,SSP
4337	Kim,Tai-Gyu	*1101	*2402/09N	*1525	*4001	*0304	*0403	SBT
168	Klein,Tirza	*1101	*2402	*1525	*4001	*0304	*0403	PCR-SSO,SSP
278	Lee,Jar-How	*1101/21N/30/32	*2402/76/78/79+	*1525	*4001/55/73/81	*0304/23/24/44+	*0403/06/16	SSP,RVSSOP
6649	Lim,Young Ae	*11	*24	*15(B62)	*40(B60)	*03	*04	PCR-SSP
731	Loewenthal,R	*1101	*2402	*1525	*4001	*0304/28	*0403/06	SBT,SSO
759	Lopez-Cepero	*1101-03/05/07+	*2402/05/07/10+	*1525	*4001/43/54/55/62+	*0304/06/09/19+	*0403/06	RVSSO
8029	Mani,Rama	*11	*24	*15	*40			PCR-SSP
792	Moore,S.Brea	*1101	*2402	*1525	*4001	*0304/47	*0403	PCR-SSO,SSP
4336	Park,Myoung	*11	*24	*1525	*40	*03	*0403/06	RVSSO
16	Pidwell,Dian	*110101	*240201	*1525	*4001	*030401//*0328	*0403//*0406	RSSO,SBT,SSP
4689	Rajczy,Katal	*1101/02/04/05+	*2402/05/10/17+	*1525	*4001/79/81/84/88	*0304/06/09/10+	*0403/06	PCR-SSO,SSP
3625	Rees,Tracey	*1101	*2402	*1525	*4001	*0304	*04	PCR-SSP,SBT
5200	Reinke,Denni	*11	*24	*1525	*40(B60)	*03(Cw10)	*04	SSP
1160	Rosen-BronGT	*11	*24	*1525	*4001	*03	*04	SSP,RVSSO
793	Rubocki,Ron	*11	*24	*15(B62)	*40(B60)			PCR-SSP
4948	Sage,Deborah	*1101/27	*2402/10	*1525	*4001/55	*0304/28	*0403/06	
8001	Sheikh,Maqso	*11	*24	*1525	*4001/54/55/62/65+	*0304/06/09/23+	*04	SSOP,SSP
769	Tavoularis,S	*1101	*2402	*1525	*4001	*0304/28	*0403/06	SSO,SBT,SSP
747	Tiercy,Jean-	NT						
5451	Tilanus,Marc	*110101	*24020101	*1525	*400102	*030401	*0403	SBT
5462	Turner,E.V.	*1101	*2402	*1525	*4001	*0304	*0403	SSO,SSP,SEQ
5642	Varnavidou-N	*11	*24	*15	*40	*03	*04	PCR-SSP,SSO
705	Watkins,Davi	*1101g	*2402g	*1525	*4001g	*0304g	*0403/06	

Cell 1357 (Hispanic)

47 labs

A*24	51%	
A*2402	34%	
A*240201	4%	
A*24020101	11%	
A*24	100%	TOTAL
A*33	51%	
A*3301	6%	
A*3305	43%	
A*33	100%	TOTAL

47 labs

B*14	32%	
B*1402/09	11%	
B*1402	42%	
B*140201	15%	
B*14	100%	TOTAL
B*45	45%	
B*4501/07	15%	
B*4501	40%	
B*45	100%	TOTAL

43 labs

Cw*08	42%	
Cw*0802/12	9%	
Cw*0802	49%	
Cw*08	100%	TOTAL
Cw*16	28%	
Cw*1601/08/11	7%	
Cw*1601/08	9%	
Cw*1601	37%	
Cw*160101	14%	
Cw*16	95%	TOTAL

Cell 1358 (Black)

47 labs

A*29	51%	
A*2902	34%	
A*290201	13%	
A*29020101	2%	
A*29	100%	TOTAL
A*30	36%	
A*3002/10/12	9%	
A*3002/10	4%	
A*3002	38%	
A*300201	13%	
A*30	100%	TOTAL

47 labs

B*49	17%	
B*4901	72%	
B*490101	11%	
B*49	100%	TOTAL
B*15	23%	
B*1510/90	17%	
B*1510	60%	
B*15	100%	TOTAL

43 labs

Cw*03	58%	
Cw*0304	38%	
Cw*030402	2%	
Cw*0309	2%	
Cw*03	100%	TOTAL
Cw*07	61%	
Cw*0701	37%	
Cw*070101	2%	
Cw*07	100%	TOTAL

Cell 1359 (Vietnamese)

46 labs

A*02	52%	
A*02010101	2%	
A*0207	46%	
A*02	100%	TOTAL
A*11	52%	
A*1101	33%	
A*110101	15%	
A*11	100%	TOTAL

46 labs

B*46	56%	
B*4601	33%	
B*460101	9%	
B*4602	2%	
B*46	100%	TOTAL
B*54	57%	
B*5401	43%	
B*54	100%	TOTAL

43 labs

Cw*01	46%	
Cw*0102	42%	
Cw*010201	12%	
Cw*01	100%	TOTAL

Cell 1360 (Chinese)

46 labs

A*11	54%	
A*1101	35%	
A*110101	11%	
A*11	100%	TOTAL
A*24	54%	
A*2402	35%	
A*240201	4%	
A*24020101	7%	
A*24	100%	TOTAL

46 labs

B*15	15%	
B*1525	85%	
B*15	100%	TOTAL
B*40	52%	
B*4001	44%	
B*400101	2%	
B*400102	2%	
B*40	100%	TOTAL

43 labs

Cw*03	61%	
Cw*0304	28%	
Cw*030401	7%	
Cw*0309	2%	
Cw*0310	2%	
Cw*03	100%	TOTAL
Cw*04	35%	
Cw*0403/06	23%	
Cw*0403	42%	
Cw*04	100%	TOTAL

INTERNATIONAL CELL EXCHANGE

		CELL NO.1357								CELL NO.1358									CELL NO.1359									CELL NO.1360								
		V								V									V									V								
		I						(HISP)		I							(BLCK)		I						(VIET)			I						(CHIN)	
INVESTIGATOR		A	A	A	B	B	C	B		A	A	A	B	B	C	C	B	B	A	A	A	B	B	C	B			A	A	A	B	B	C	C	B	
	DAYS	B	2	3	1	4	W	W		B	2	3	4	7	W	W	W	W	B	2	1	4	5	W	W			B	1	2	6	6	W	X	W	
NAME	OLD	%	4	3	4	5	8	6	OTHERS	%	9	0	9	0	3	7	4	6	OTHERS	%		1	6	4	1	6	OTHERS	%	1	4	2	0	3	4	6	OTHERS
Abbal,Michel	6	95	+	+	+	+		+		95	+	+	+	+			+	+		98	+	+	+	+		+		95	+	+	+	+			+	
Alonso,Anton	6	90	+	+65	+	+		+		90	+	+	+		+	+	+	+	B15	95	+	+	+	+	+	+		90	+	+15	+	+W4	+			
Alvarez,Carr	3	100	+	+65	+			+		100	+	+	+	+	+	+	+	+		100	+	+	+	+	+	+		100	+	+	+	+	+W6	+		
Anthony Nola	3	98	+	+	+	+				98	+	+	+71							99	+	+	+	+				98	+	+	+	+				
Berka,Noured	1	90	+	+65	+	+		+		90	+	+	+	+	+	+	+	+	B50	90	+	+	+22	+		+	CW7	90	+	+	+	+	+W6	+		
Bow,Laurine	3	99	+	+	+	+		+		99	+	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	+	+	+	+			
Burger,Joe	2	99	+	+65	+	+		+		99	+	+	+	+	+	+	+	+		99	+	+	+	+	+	+		99	+	+	+	+	+W4	+		
Cecka,J.Mich	3	95	+	+65	+			+		95	+	+	+71			+	+			95	+	+	+	+		+		95	+	+	+	+			+	
Chan MD,Soh	4	95	+	+	+	+	+	+	CW6,B64	95	+	+	+71	+	+	+	+			95	+	+	+	+	+	+		95	+	+	+		W6	+		CW8,B61
Charron,D. P	7	80	+	+	+	+				80	+	+	+						B15	80	+	+	+	+		+		80	+	+	+40					
Choo,Yoon MD	2	99	+	+65	+	+		+		99	+	+		+	+	+	+		B50,B53	99	+	+	+	+	+	+		99	+	+	+	+	+W4	+		
Claas,F.H.J.	6	90	+	+	+	+		+		90	+	+	+	+	+	+	+	+		90	+	+	+	+	+	+		90	+	+	+	+	+W4	+		
Cooper,E. Sh	2	99	+	+65	+			+		99	+	+	+	+			+	+		99	+	+	+	+		+		99	+	+	+	+			+	
Dhaliwal,J.S	14	NT								C										C								NT								
Du Toit,Erne	10	80	+	+	+	+		+		C										80	+	+	+	+		+		80	+	+	+	+			+	
Dunckley,Hea	7	99	+	+	+	+				99	+	+	+						B15	99	+	+	+22					99	+	+	+	+				
Dunk,Arthur	2	98	+	+	+	+	+	+		98	+	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	+	+	+	+W6	+		
Dunn,Paul Dr	7	95	+	+65	+			+		95	+	+	+71			+	+			98	+	+		+		+		98	+	+	+	+			+	
Eckels/CPMC,	3	95	+	+65	+	+		+		95	+	+	+71	+	+	+	+			95	+	+	+	+	+	+		95	+	+	+	+	+W4	+		
Eckels/Utah,	3	95	+	+65	+	+		+		92	+	+	+	+	+	+	+			88	+	+	+	+	+	+		96	+	+	+	+	+			
Eisenbrey,A.	3	98	+	+65	+	+		+		98	+	+	+		+	+	+	+	B35	98	+	+	+	+	+	+		98	+	+	+	+	+W4	+		
Esteves Kond	2	98	+	+65	+	+		+		98	+	+	+71	10	+	+	+			98	+01	+	+	+		+		98	01	+	+	+10	W4	+		
Fischer,Joha	6	99	+	+65	+			+		95	+	+	+71			+	+			95	+	+	+	+		+	BW4	95	+	+	+	+			+	
Gideoni,Osna	6	100	+	+	+	+	+			100	+	+	+	+	+	+				100	+	+	+	+	+			100	+	+	+	+	+			
Goggins,R.	2	99	+	+	+	+	+	+		98	+	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	+	+	+	+			
Hahn,Amy B.	3	99	+	+65	+	+		+		99	+	+	+71	10	+	+	+		B21V	99	+01	+	+	+		+	B22V	99	01	+	+	+10	W6	+		
Harville,Ter	2	98	+	+65	+	+		+		98	+	+	+71	10	+	+	+			98	+	+	+	+	+	+		98	+	+	+	+10	W4	+		
Hirankarn MD	6	73	+	+	+	+		+		NT										NT								80	.1	+	+	+		+		
Hogan,Patric	7	60	+	+65	+	+		+		85	+	+	+	+	+	+	+	+		85	+	+	+	+	+	+		60	+	+	+	+	+		+	
Hubbell,Char	3	95	+	+65	+			+		95	+	+	+	+			+	+		95	+	+	+	+		+		95	+	+	+	+			+	
Ichikawa MD,	13	NT								NT										NT								NT								
Israel,Shosh	6	90	+	+65	+	+		+		90	+	+	+71	+	+	+	+			90	+	+	+	+	+	+		90	+	+	+	+	+		+	
Jaramillo,An	2	98	+	+65	+	+		+		98	+	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	+	+	+	+X6	+		
Keown,Paul M	3	95	+	+	+	+		+		98	+	+21	+	+		+	+			95	+	+	+	+	+	+		95	+	+	+	+	+		+	
Klein,Tirza	7	85	+	+	+	+		+		85	+	+	+	+	+	+	+			85	+	+		+	+	+		80	+	+	+	+	+		+	
Kvam,Vonnett	3	97	+	+65	+	+		+		97	+	+	+71	+	+	+	+			95	+	+	+	+	+	+		97	+	+	+	+	+W6	+		
Lardy,N.M. D	6	90	+	+	+	+		+		90	+	+	+	+	+	+	+	+		90	+	+	+	+	+	+		90	+	+	+	+	+		+	
Lebeck,Laura	2	98	+	+	+	+	+	+		98	+	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	+	+	+	+W6	+		
Lee,Kyung Wh	8	80	+	+	+	+	+	+		80	+	+	+71	+	+	+	+			95	+	+	+	+	+	+		98	+	+15	+			+		
Leech MD,Ste	4	95	+	+65	+	+		+		95	+	+	+71	+	+	+	+			95	+	+	+	+	+	+		95	+	+	+	+	+		+	CW10
Lo,Raymundo	4	98	+	+65	+			+		98	+	+	+71			+	+			98	+01	+	+			+		98	01	+		+			+	B75
Loewenthal M	6	90	+	+65	+	+		+		NT										90	+	+	+	+	+	+		90	+	+	+	+	+W4	+		
Lopez-Cepero	2	99	+	+65	+	+		+		99	+	+	+71	+	+	+	+			99	+	+	+	+	+	+		99	+	+	+	+	+W6	+		
MacCann,Eile	2	98	+	+65	+			+		90	+	+	+71			+	+			95	+	+	+	+		+		98	+	+	+	+			+	
Mah,Helen	3	98	+	+65	+	+		+	BW4	98	+	+	+71	+	+	+	+			98	+	+	+	+	+	+		98	+	+	+	+	+W4	+		
McAlack,Robe	2	97	+	+65	+	+		+		97	+	+	+71	10	+	+	+			97	+	+	+	+	+	+		97	+	+	+	+10	W4	+		
McAlack-Bala	3	98	+	+65	+	+		+		98	+	+	+71	+	+	+	+			98	+	+	+	+	+	+		98	+	+	+	+	+W6	+		
McCluskey,Ja	9	NT								NT										95	+	+	+	+	+			95	+	+	+	+	+			
Meyer,Pieter	13	NT								80	+	+	+		+	+			B35	75	+	+	+	+	+			79	+	+	+	+	+			
Mpuntsha,Loy	6	90	+	+	+	+		+		90	+		+71			+	+			90	+	+		+		+		90	+	+	+	+			+	

INTERNATIONAL CELL EXCHANGE

INVESTIGATOR NAME	DAYS OLD	CELL NO.1357 VIAB %	CELL NO.1357 A4	CELL NO.1357 A3	CELL NO.1357 B4	CELL NO.1357 B5	CELL NO.1357 C8	CELL NO.1357 BW6	CELL NO.1357 (HISP) OTHERS	CELL NO.1358 VIAB %	CELL NO.1358 A90	CELL NO.1358 A03	CELL NO.1358 B97	CELL NO.1358 B00	CELL NO.1358 C37	CELL NO.1358 C74	CELL NO.1358 BW6	CELL NO.1358 BW6	CELL NO.1358 (BLCK) OTHERS	CELL NO.1359 VIAB %	CELL NO.1359 A16	CELL NO.1359 A41	CELL NO.1359 B64	CELL NO.1359 C15	CELL NO.1359 BW6	CELL NO.1359 (VIET) OTHERS	CELL NO.1360 VIAB %	CELL NO.1360 A12	CELL NO.1360 A46	CELL NO.1360 B20	CELL NO.1360 B37	CELL NO.1360 CW4	CELL NO.1360 CX6	CELL NO.1360 BW6	(CHIN) OTHERS
Norin,Allen	2	99	+	+65	+		+	B64		99	+	+	+	+	+		+	+		99	+	+	+	+		+		99	+	+	+	+	+		+	
Pais,Maria L	7	99	+	+65	+					99	+	+	+						B15	99	+	+	+			B55		99	+		+	+				A29
Park,Myoung	6	80	+	+	+	+	+	+		85	+	+	+71	+	+	+				92	+	+	+	+	+	+		90	+	+	+	+	+W4	+		
Permpikul,Ve	6	90	+	+	+	+		+		90	+	+	+	+			+	+		90	+01	+	+		+			90	01	+	+	+		+		
Phelan,Donna	3	90	+	+65	+	+	+	CW5		90	+	+	+71	+	+	+	+			90	+	+	+	+	+	+		90	+	+	+	+	+W4	+		
Pidwell,Dian	2	95	+	+65	+	+	+			90	+	+	+71	+	+	+	+			95	+	+	+	+	+	+		95	+	+	+	+	+X6	+		
Pollack,Mari	2	98	+	+	+	+	+	+		98	+	+	+71	+	+	+	+			98	+	+	+	+	+	+		98	+	+	+	+	+X6	+		
Rajczy,Katal	3	95	+	+	+	+	+	+		95	+	+	+		+	+	+		B15	95	+	+	+	+	+	+		95	+	+	+	+	+			
Rees,Tracey	6	70	+	+65	+	+	+			70	+	+	+71	+	+	+	+			70	+	+	+	+	+	+		70	+	+	+	+	+03	+		
Rosen-BronGT	2	90	+	+65	+					90	+	+	+	+					B75	90	+	+	+	+				90	+	+		+				B75
Rosen-BronMS	3	95	+	+65	+	+	+			95	+	+	+71	+	+	+	+			95	+	+	+	+	+	+	CW7	95	+	+	+	+	+W6	+		
Rubocki,Rona	2	99	+	+65	+		+			99	+	+	+	+			+	+		99	+	+	+	+		+		99	+	+	+	+		+		
Sauer,Gottwa	6	90	+	+65	+	+	+			90	+	+	+71	+	+	+	+			85	+	+	+	+	+	+		90	+	+	+	+		+		
Semana MD,Gi	3	60	+	+	+		+	B12		99	+	+21	+			+	+			99	+	+	+22		+			99	+	+15	+			+		
Sperry,Roxan	2	98	+	+	+	+	+	+		98	+	+	+	+10	+	+	+			98	+	+	+	+	+	+		98	+	+	+	+10	W4	+		
Stamm,Luz	3	95	+	+65	+		+			95	+	+	+71	+	+	+	+			95	+	+	+	+	+	+		95	+	+	+	+	+W4	+		
Tagliere,Jac	2	100	+	+65	+	+	+			100	+	+	+71	+	+	+	+			100	+	+	+	+	+	+		100	+	+	+	+	+W4	+		
Tilanus,Marc	7	90	+	+	+	+		+		90	+	+	+	+			+	+		90	+	+	+	+		+		90	+	+	+	+		+		
Varnavidou-N	6	98	+	+65	+		+			98	+	+	+	+			+	+		98	+	+	+	+		+		98	+	+	+	+		+		
Vidan-Jeras,	6	100	+	+65	+	+	+			85	+	+	+71	+	+	+	+			90	+	+	+	+	+	+		100	+	+	+	+		+		
Walter Reed	3	97	+	+	+	+	+	+		97	+	+	+	+	+	+	+			97	+	+	+	+	+	+		97	+	+	+40	+		+		
Wisecarver,J	7	98	+	+	+	+		+		98	+	+	+	+			+	+		98	+	+	+	+		+		98	+	+	+	+		+		

SUMMARY TABLE

(HISP)	(BLCK)	(VIET)	(CHIN)
**** CELL 1357 ****	**** CELL 1358 ****	**** CELL 1359 ****	**** CELL 1360 ****
(68 SAMPLES TYPED)	(66 SAMPLES TYPED)	(69 SAMPLES TYPED)	(70 SAMPLES TYPED)
A24 100.0%	A29 100.0%	A2 100.0%	A11 92.9%
(100.0%)	(100.0%)	(100.0%)	11.1 1.4%
			1101 5.7%
A33 100.0%	A30 98.5%	A11 94.2%	(100.0%)
(100.0%)	(98.5%)	1101 5.8%	
		(100.0%)	A24 98.6%
B14 39.7%	B49 95.5%		(98.6%)
B65 60.3%	B21 3.0%	B46 95.7%	
(100.0%)	(98.5%)		B62 92.9%
		B54 94.2%	B15 4.3%
B45 98.5%	B70 42.4%	B22 4.3%	(97.1%)
(98.5%)	B71 45.5%	(98.6%)	
	(87.9%)		B60 95.7%
CW8 57.4%		CW1 68.1%	B40 2.9%
	CW3 62.1%		(98.6%)
BW6 91.2%	CW10 7.6%	BW6 89.9%	
	(69.7%)		CW3 58.6%
			CW10 7.1%
	CW7 66.7%		(65.7%)
	BW4 89.4%		CX4 0.0%
			CW4 22.9%
	BW6 87.9%		CW6 14.3%
			C403 1.4%
			C4X6 4.3%
			(42.9%)
			BW6 87.1%
(OTHERS FOUND)	(OTHERS FOUND)	(OTHERS FOUND)	(OTHERS FOUND)
B64 2.9%	B15 7.6%	CW7 2.9%	B75 2.9%
B12 1.5%	B35 3.0%	B55 1.4%	A29 1.4%
CW5 1.5%	B50 3.0%	BW4 1.4%	CW10 1.4%
CW6 1.5%	B53 1.5%	B22V 1.4%	B61 1.4%
BW4 1.5%	B75 1.5%		CW8 1.4%
	B21V 1.5%		

*** 72 LABORATORIES REPLIED ***

********** NEXT SHIPMENT: 05/06/2009 **********