

# REPORT OF THE 13TH UCLA INTERNATIONAL KIR EXCHANGE

*AUGUST 8, 2007*

KIR

49-52

Dear Colleagues:

For the 13<sup>th</sup> KIR Exchange, 4 DNA samples (KDNA#49-52) were shipped to each laboratory on May 9, 2007. Fifty-three laboratories submitted their KIR typing results. The majority of the laboratories used commercial or in-house developed sequence-specific primer (SSP) based PCR typing systems, and the remaining laboratories used either a sequence-specific oligonucleotide probing (SSOP) method, or a multiplexed SSP method, or the MALDI-TOF/SNP assay. The majority of the laboratories performed subtyping for 2DL5, 2DS4, and 3DP1.

The results for the 13<sup>th</sup> KIR Exchange are summarized in Table 1 and individual laboratory results reported for each DNA sample are provided in Tables 2-5. Some laboratories reported discrepant results for the presence or absence of KIR2DL2, 2DL3, 2DL4, 2DL5, 3DL3, 3DS1, 2DS1, 2DS2, 2DS3 and 2DP1 genes. Discrepant results from the consensus typing are italicized in the listing of results (Tables 2-5), and described in the summation for each sample.

Discrepancies at the allele level are not italicized. We encourage the participating laboratories to resolve the discrepancies so that the information can be shared to develop reliable KIR typing systems.

We thank you for your active participation in this program.

Best regards,

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**Correction:** For KIR Exchange sample KDNA#47, in the Report of the 12<sup>th</sup> UCLA International KIR Exchange, the description should read: Two laboratories reported this DNA as negative for 2DL2 and another two laboratories reported it as **positive** for 2DS1.

We apologize for any confusion .

**KIR Exchange Sample: KDNA # 0049:**

This DNA was isolated from an Hispanic donor. This individual carried all known 17 KIR genes. However, two laboratories reported that this DNA was negative for the 2DL2 gene and another two laboratories reported it as negative for the 2DL5A gene. This is a common KIR genotype found in Asian Indians, occurring at a frequency up to 23% (Rajalingam et al. unpublished results). Nearly 5% of Caucasians carry this genotype whereas it occurs rarely in Chinese, Japanese and Africans (1). Previously typed KDNA#26 sample comprised similar KIR gene content.

**KIR Exchange Sample: KDNA # 0050:**

KDNA#50 was obtained from a Black individual. The consensus KIR type is: 2DL1-2DL2-2DL3-2DL4-3DL1-3DL2-3DL3-2DS2-2DS4-2DP1-3DP1. This is a rare genotype reported only in Basque population (2). One laboratory reported that this DNA carried the 3DS1 gene, and another one reported it to be positive for the 2DS1 gene. The genotype was similar to the one typed in a previous sample, KDNA#37.

**KIR Exchange Sample: KDNA # 0051:**

The ethnic origin of this sample donor is unknown. The consensus KIR type is: 2DL1-2DL3-2DL4-2DL5-3DL1-3DL2-3DL3-3DS1-2DS1-2DS3-2DS4-2DP1-3DP1. This KIR genotype occurs commonly in Pacific Islands populations with a frequency of 8-12% (3). One laboratory typed this DNA as positive for 2DL2 and another one laboratory reported this DNA as negative for both 2DL4 and 2DS3. This same KIR genotype was previously typed in KDNA#44.

**KIR Exchange Sample: KDNA # 0052:**

The ethnic origin of this DNA donor is Asian. The consensus KIR type is: 2DL1-2DL3-2DL4-2DL5-3DL1-3DL2-3DL3-3DS1-2DS1-2DS4-2DS5-2DP1-3DP1. This is the second most common KIR genotype observed in most populations (1). One or two laboratories reported discrepant results for 7 of these loci: 2DL3, 2DL5, 3DL3, 3DS1, 2DS2, 2DS3 and 2DP1. This DNA was previously typed as KDNA#01 by 12 laboratories in the first KIR Exchange in 2004. All 12 laboratories were in complete agreement for the KIR genotype, with the exception of one laboratory that reported it as 2DL5-negative. The increased number of participating laboratories, from 12 to 53, may account for the increased level of discrepancy observed in this present retyping exercise.

## References

1. Yawata, M., Yawata, N., Abi-Rached, L., and Parham, P. (2002). Variation within the human killer cell immunoglobulin-like receptor (KIR) gene family. *Crit Rev Immunol* 22, 463-482.
2. Santin, I., de Nanclares, G. P., Calvo, B., Gaafar, A., Castano, L., and Bilbao, J. R. (2006). Killer cell immunoglobulin-like receptor (KIR) genes in the Basque population: association study of KIR gene contents with type 1 diabetes mellitus. *Hum Immunol* 67, 118-124.
3. Velickovic, M., Velickovic, Z., and Dunckley, H. (2006). Diversity of killer cell immunoglobulin-like receptor genes in Pacific Islands populations. *Immunogenetics* 58, 523-532.

**Table 1. Summary of the 13th KIR Exchange (KDNA#49-52)**

KIR Ex.	DNA	# reporting labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#13	#0049	53	POS *002, *003 [1]	POS *001-*003/ *005 [2] <i>NEG [2]</i>	POS	POS *00102/ *00103/ *00105, *005/ *011 [1] NT [2]	POS A,B [1] A*001, B*002 [2] A*001/ *005, B*002/ *004/ *007 [2] A*001/ *005, B*003/ *006 [1], B*002/ *004 [1] B [1]	POS *008 [1] *009 [1] *002/ *006- *008/ *015/ *017/ *018/ *020, - [1]	POS *006, *007 [1]	POS NT [1]	POS	POS *002-*004 [1]	POS	POS	POS *003-*007 [11] *003/*004/*006/ *007 [6] DEL [4] *003-*006 [4] *003 [2] *003/ *004/*006 [2] *003/*004, *006 [1] *001-*004/*006 [1] *003/*004/*006/ *007, - [1]	POS	POS NT [3]	POS *003 [22] *00301/*00302 [2] NT [3]
	#0050	53	POS *002, *003 [1]	POS *001-*003, *005 [2]	POS	POS *00202/*00801/ *009, *005/*011 [1] NT [2]	NEG	POS *002,*015 [1] *005, - [1] *001/ *002, *005-*008, *01501-*020 [1]	POS *002, - [1]	POS NT [1]	NEG <i>POS [1]</i>	NEG <i>POS [1]</i>	POS	NEG	POS *001/ *002 [19] *001 [8] FULL [2] *001, - [1] *0010101/ *0010102 [1]	NEG	POS NT [3]	POS *001/*002/*004, *003 [5] *001/*002, *003 [3] *001-*004 [2] *003 [1] *00301/*00302 [1] *001/*002/*004 [1] NT [3]
	#0051	52	POS *003, - [1]	NEG <i>POS [1]</i>	POS	POS *00102/ *00103/ *00105, - [1] <i>NEG [1]</i> NT[2]	POS A [14] A*001/ *005 [3] A*005 [2] A*001,*005 [1] A*005, B*002 [1] A,B [1]	POS *005 [1] *009 [1] *002/*006- *008/*015/ *017/*018/ *020, - [1]	POS *006,*007 [1] NT [1]	POS NT [1]	POS	POS *002-*004 [1] NT [1]	NEG	POS <i>NEG [1]</i>	POS *003-*007 [10] *003/*004/ *006/ *007 [6] DEL [4] *003-*006 [4] *003 [2] *003/*004/*006 [2] *003/*007 [1] *001/*004,*006 [1] *003/ *004/ *006/ *007, - [1]	NEG	POS NT [3]	POS *003 [21] *00301/*00302 [1] NT [3]
	#0052	53	POS *003,*004 [1] NT [2]	NEG NT [1]	POS <i>NEG [1]</i>	POS *00102/*00103/ *00105, *005/ *011 [1] NT [2]	POS A [14] A*001/*005 [3] A*001 [2] A*001,*005 [1] A*001, B*006 [1] <i>NEG [1]</i>	POS *01502 [1] *009 [1] *002/*006- *008/*015/ *017/*018/ *020, - [1]	POS *002/ *006, *007 [1]	POS <i>NEG [1]</i> NT [2]	POS <i>NEG [2]</i>	POS *002-*004 [1]	NEG <i>POS [1]</i>	NEG <i>POS [1]</i>	POS *001/ *002 [19] *001 [8] FULL [2] *001, - [1] *0010101/ *0010102 [1] NT [1]	POS NT [1]	POS <i>NEG [1]</i> NT [3]	POS *003 [22] *00301/*00302 [2] NT [3]

**KEY for Table 1**

[ ] - number of labs reporting allele assignment/POS/NEG/NT  
 POS - Presence of gene  
 NEG - Absence of gene  
 NT - Not typed  
*italics* - assignment different from consensus

**KEY for Tables 2-5**

*italics* - assignment different from consensus  
 SSP - Sequence-specific priming-based typing  
 SSOP - Sequence-specific oligonucleotide probing-based typing  
 RSSOP - Reverse Sequence-specific oligonucleotide probing-based typing  
 SBT - Sequencing-based typing

**Table 2. KIR Exchange Sample: KDNA #49**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP
8033	Balazs, Ivan	POS	*001- *003, *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	POS	POS	POS	SSOP
8025	Carrington/Mar	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	DEL	POS	POS	*003	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
5232	Charlton, Ronald																	SSP
3224	Chen, Dongfeng	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP, SSP
3966	Chongkolwatana,	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	
124	Christiansen/Witt	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003	POS	NT	NT	SSP
3632	Colombe, Beth	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
16	Cook, Daniel J.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	RSSOP, SSP
5130	Costeas, Paul A	POS	POS	POS	POS	A,B	*009	POS	POS	POS	*002- *004	POS	POS	*001- *004/ *006	POS	POS	*00301/ *00302	SSP
189	Crowe, Deborah	POS	POS	POS	POS	A*001/ *005, B*003/ *006	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP
8030	Davidson/Poult																	SSOP
1108	Davis, Mary	POS	*001- *003, *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	POS	POS	POS	SSOP
8031	Dinauer, David	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP
3186	Dunckley, Heather	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8038	Fernandez-Vina, M	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	POS	SSOP
762	Fischer, Gottf	POS	POS	POS	POS	B	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP
8026	Gardiner, Clair	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8036	Gillespie, Kath	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *006	POS	POS	*003	SSP
8040	Gladman/Pellet	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP
8041	Han, Hoon	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006	POS	POS	*00301/ *00302	SSP
1461	Hidajat, Melan	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006	POS	POS	*003	SSP

**Table 2. KIR Exchange Sample: KDNA #49**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD	
615	Holdsworth/Tait	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP	
5000	Hsu,Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP,SSP	
4337	Kim,Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP	
8037	Kotsch,Katja	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP	
836	KuKuruga,Debr	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP	
8046	Kusnierczyk,Piotr	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	DEL	POS	NT	NT	MULTIPLEX SSP	
8002	MacCann,Eileen	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP	
5142	Marsh,Steven	*002, *003	NEG	POS	*00102/ *00103/ *00105, *005/ *011	POS	*002/ *006- *008/ *015/ *017/ *018/ *020 , -	*006, *007	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007, -	POS	POS	POS	SSP,SSOP
8027	Middleton,Der	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	POS	SSOP	
733	Mytilineos,Joan	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP	
2549	Nehlsen-Canna	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003- *006	POS	POS	*003	SSP	
8039	Noreen,Harriet	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP	
4141	Pollack,Maril	POS	POS	POS	POS	A*001/ *005, B*002/ *004/ *007	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	POS	POS	*003	SSP	
3753	Reed/Rajaling	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS		
3798	Reinsmoen,Nan	POS	POS	POS	POS	A*001/ *005, B*002/ *004/ *007	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP	
1694	Sauer,Norbert	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP	
3410	Schroeder,M.L.	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003- *006	POS	POS	*003	SSP	
1426	Senitzer,David	POS	POS	POS	POS	A*001, B*002	*008	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	POS	POS	*003	MULTIPLEX SSP	
740	Snider,Denis																	SSP	
702	Spannagl,Michae	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003	POS	POS	*003	SSP	
8032	Stavropoulos-Gio	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *006	POS	POS	*003	SSP	
230	Thoni,Deborah	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP	

**Table 2. KIR Exchange Sample: KDNA #49**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
747	Tiercy, Jean-Marie	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	POS	POS	*003	SSP
4021	Trachtenberg, Eliz	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	POS	POS	POS	MALDI-TDF
8024	Trowsdale, Joh	POS	POS	POS	NT	POS	POS	POS	POS	POS	POS	POS	POS	DEL	POS	POS	POS	SSP
5462	Turner, Victor	POS	NEG	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003/ *004, *006	POS	POS	*003	SSP
8028	Uhrberg, Marku	POS	POS	POS	NT	POS	POS	POS	NT	POS	POS	POS	POS	*003- *007	POS	NT	NT	SSP
3775	Vidan-Jeras, Bl	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8023	Vilches, Carlo	POS	POS	POS	POS	A*001, B*002	POS	POS	POS	POS	POS	POS	POS	DEL	POS	POS	*003	SSP
8047	Wassmuth, Ralf	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
1466	Yu, Neng	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003	SSOP
713	Zachary, Andre	POS	POS	POS	POS	B*002/ *004	POS	POS	POS	POS	POS	POS	POS	*003- *006	POS	POS	*003	SSP

**Table 3. KIR Exchange Sample: KDNA #50**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	POS	SSP
8033	Balazs, Ivan	POS	*001- *003, *005	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	POS	SSOP
8025	Carrington/Mar	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	*001/ *002/ *004	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
5232	Charlton, Ronald																	SSP
3224	Chen, Dongfeng	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP, SSP
3966	Chongkolwatana,	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	
124	Christiansen/Witt	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NT	NT	SSP
3632	Colombe, Beth	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
16	Cook, Daniel J.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	RSSOP, SSP
5130	Costeas, Paul A	POS	POS	POS	POS	NEG	*001/ *002, *005- *008, *01501- *020	POS	POS	NEG	NEG	POS	NEG	*0010101/ *0010102	NEG	POS	*00301/ *00302	SSP
189	Crowe, Deborah	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*001/ *002/ *004, *003	SSP
8030	Davidson/Poult																	SSOP
1108	Davis, Mary	POS	*001- *003, *005	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	POS	SSOP
8031	Dinauer, David	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*001/ *002/ *004, *003	SSP
3186	Dunckley, Heather	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8038	Fernandez-Vina, M	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
762	Fischer, Gottf	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	POS	SSP
8026	Gardiner, Clair	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8036	Gillespie, Kath	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	POS	SSP
8040	Gladman/Pellet	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*001/ *002, *003	SSP

**Table 3. KIR Exchange Sample: KDNA #50**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8041	Han,Hoon	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	POS	SSP
1461	Hidajat,Melan	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	POS	SSP
615	Holdsworth/Tait	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*001/ *002/ *004, *003	SSP
5000	Hsu,Susan H.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP,SSP
4337	Kim,Tai-Gyu	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	NEG	POS	NEG	POS	POS	SSP
8037	Kotsch,Katja	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
836	KuKuruga,Debr	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	POS	SSP
8046	Kusnierczyk,Piotr	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NT	NT	MULTIPLEX SSP
8002	MacCann,Eileen	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
5142	Marsh,Steven	*002, *003	POS	POS	*00202/ *00801/ *009, *005/ *011	NEG	*005, -	*002, -	POS	NEG	NEG	POS	NEG	*001, -	NEG	POS	POS	SSP,SSOP
8027	Middleton,Der	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	POS	SSOP
733	Mytilineos,Joan	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
2549	Nehlsen-Canna	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*001- *004	SSP
8039	Noreen,Harriet	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
4141	Pollack,Maril	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	POS	SSP
3753	Reed/Rajaling	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	
3798	Reinsmoen,Nan	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*001/ *002/ *004, *003	SSP
1694	Sauer,Norbert	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
3410	Schroeder,M.L.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP
1426	Senitzer,David	POS	POS	POS	POS	NEG	*002, *015	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	*001/ *002/ *004, *003	MULTIPLEX SSP
740	Snider,Denis																	SSP
702	Spannagl,Michae	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*001/ *002, *003	SSP
8032	Stavropoulos-Gio	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	POS	SSP



**Table 3. KIR Exchange Sample: KDNA #50**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
230	Thoni, Deborah	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
747	Tiercy, Jean-Marie	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	*001/ *002	NEG	POS	POS	SSP
4021	Trachtenberg, Eliz	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	POS	MALDI-TDF
8024	Trowsdale, Joh	POS	POS	POS	NT	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	POS	SSP
5462	Turner, Victor	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	*001- *004	SSP
8028	Uhrberg, Marku	POS	POS	POS	NT	NEG	POS	POS	NT	NEG	NEG	POS	NEG	*001/ *002	NEG	NT	NT	SSP
3775	Vidan-Jeras, Bl	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8023	Vilches, Carlo	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	*001/ *002, *003	SSP
8047	Wassmuth, Ralf	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
1466	Yu, Neng	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
713	Zachary, Andre	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	POS	SSP

**Table 4. KIR Exchange Sample: KDNA #51**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*003- *007	NEG	POS	*003	SSP
8033	Balazs, Ivan	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*003/ *004/ *006/ *007	NEG	POS	POS	SSOP
8025	Carrington/Mar	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	*003	SSP
785	Chan, Soh Ha	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
5232	Charlton, Ronald																	SSP
3224	Chen, Dongfeng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP, SSP
3966	Chongkolwatana,	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	
124	Christiansen/Witt	POS	NEG	POS	POS	NT	POS	NT	POS	POS	NT	NEG	POS	*003	NEG	NT	NT	SSP
3632	Colombe, Beth	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
16	Cook, Daniel J.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	RSSOP, SSP
5130	Costeas, Paul A	POS	NEG	POS	POS	A, B	*009	POS	POS	POS	*002- *004	NEG	POS	*003/ *004/ *006/ *007	NEG	POS	*00301/ *00302	SSP
189	Crowe, Deborah	POS	NEG	POS	POS	*001/ *005	POS	POS	POS	POS	POS	NEG	POS	*003- *007	NEG	POS	*003	SSP
8030	Davidson/Poult																	SSOP
1108	Davis, Mary	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*003/ *004/ *006/ *007	NEG	POS	POS	SSOP
8031	Dinauer, David	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*003- *007	NEG	POS	*003	SSP
3186	Dunckley, Heather	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
8038	Fernandez-Vina, M	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*003- *007	NEG	POS	POS	SSOP
762	Fischer, Gottf	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*003- *007	NEG	POS	*003	SSP
8026	Gardiner, Clair	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
8036	Gillespie, Kath	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*003- *006	NEG	POS	*003	SSP
8040	Gladman/Pellet	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
4985	Graff, Ralph J.	POS	NEG	POS	NEG	A	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	NEG	POS	*003	SSP
8041	Han, Hoon	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
1461	Hidajat, Melan	POS	NEG	POS	POS	*001/ *005	POS	POS	POS	POS	POS	NEG	POS	*003/ *004/ *006	NEG	POS	*003	SSP
615	Holdsworth/Tait	POS	NEG	POS	POS	*001/ *005	POS	POS	POS	POS	POS	NEG	POS	*003/ *007	NEG	POS	*003	SSP
5000	Hsu, Susan H.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP, SSP

**Table 4. KIR Exchange Sample: KDNA #51**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD	
4337	Kim,Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP	
8037	Kotsch,Katja	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP	
836	KuKuruga,Debr	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*003- *007	NEG	POS	*003	SSP	
8046	Kusnierczyk,Piotr	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	NT	NT	MULTIPLEX SSP	
8002	MacCann,Eileen	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP	
5142	Marsh,Steven	*003, -	NEG	POS		*00102/ *00103/ *00105,	POS	*002/ *006- *008/ *015/ *017/ *018/ *020, -							*003/ *004/ *006/ *007, -	NEG	POS	POS	SSP,SSOP
8027	Middleton,Der	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*003- *007	NEG	POS	POS	SSOP	
733	Mytilineos,Joan	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP	
2549	Nehlsen-Canna	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*003/ *004/ *006	NEG	POS	*003	SSP	
8039	Noreen,Harriet	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP	
4141	Pollack,Maril	NT																	
3753	Reed/Rajaling	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS		
3798	Reinsmoen,Nan	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*003- *007	NEG	POS	*003	SSP	
1694	Sauer,Norbert	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP	
3410	Schroeder,M.L.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*003- *006	NEG	POS	*003	SSP	
1426	Senitzer,David	POS	NEG	POS	POS	*005	*005	POS	POS	POS	POS	NEG	POS	*003/ *004/ *006/ *007	NEG	POS	*003	MULTIPLEX SSP	
740	Snider,Denis																	SSP	
702	Spannagl,Michae	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*003	NEG	POS	*003	SSP	
8032	Stavropoulos-Gio	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*003- *006	NEG	POS	*003	SSP	
230	Thoni,Deborah	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP	
747	Tiercy,Jean-Marie	POS	NEG	POS	POS	*001, *005	POS	POS	POS	POS	POS	NEG	POS	*003/ *004/ *006/ *007	NEG	POS	*003	SSP	
4021	Trachtenberg,Eliz	POS	NEG	POS	POS	A*005, B*002	POS	POS	POS	POS	POS	NEG	POS	*003/ *004/ *006/ *007	NEG	POS	POS	MALDI-TDF	
8024	Trowsdale,Joh	POS	NEG	POS	NT	POS	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	POS	SSP	

**Table 4. KIR Exchange Sample: KDNA #51**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5462	Turner, Victor	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*003/ *004, *006	NEG	POS	*003	SSP
8028	Uhrberg, Marku	POS	NEG	POS	NT	POS	POS	POS	NT	POS	POS	NEG	POS	*003- *007	NEG	NT	NT	SSP
3775	Vidan-Jeras, Bl	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
8023	Vilches, Carlo	POS	NEG	POS	POS	A*005	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	*003	SSP
8047	Wassmuth, Ralf	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
1466	Yu, Neng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	*003	SSOP
713	Zachary, Andre	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*003- *006	NEG	POS	*003	SSP

**Table 5. KIR Exchange Sample: KDNA #52**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8033	Balazs, Ivan	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	POS	SSOP
8025	Carrington/Mar	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	*003	SSP
785	Chan, Soh Ha	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
5232	Charlton, Ronald																	SSP
3224	Chen, Dongfeng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP, SSP
3966	Chongkolwatana,	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
124	Christiansen/Witt	POS	NEG	POS	POS	POS	POS	POS	NT	POS	POS	NEG	NEG	NT	NT	NT	NT	SSP
3632	Colombe, Beth	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
16	Cook, Daniel J.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	RSSOP, SSP
5130	Costeas, Paul A	POS	NEG	NEG	POS	A	*009	POS	POS	POS	*002- *004	NEG	NEG	*0010101/ *0010102	POS	POS	*00301/ *00302	SSP
189	Crowe, Deborah	POS	NEG	POS	POS	*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8030	Davidson/Poult																	SSOP
1108	Davis, Mary	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	POS	SSOP
8031	Dinauer, David	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
3186	Dunckley, Heather	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8038	Fernandez-Vina, M	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
762	Fischer, Gottf	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8026	Gardiner, Clair	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
8036	Gillespie, Kath	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8040	Gladman/Pellet	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8041	Han, Hoon	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	POS	*001/ *002	POS	POS	*00301/ *00302	SSP
1461	Hidajat, Melan	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
615	Holdsworth/Tait	POS	NEG	POS	POS	*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
5000	Hsu, Susan H.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP, SSP
4337	Kim, Tai-Gyu	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8037	Kotsch, Katja	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
836	KuKuruga, Debr	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8046	Kusnierczyk, Piotr	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	NT	NT	MULTIPLEX SSP
8002	MacCann, Eileen	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP

**Table 5. KIR Exchange Sample: KDNA #52**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5142	Marsh, Steven	*003, *004	NEG	POS	*00102/ *00103/ *00105, *005/ *011	POS	*002/ *006- *008/ *015/ *017/ *018/ *020, -	*002/ *006, *007	POS	POS	POS	NEG	NEG	*001, -	POS	POS	POS	SSP,SSOP
8027	Middleton, Der	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	POS	SSOP
733	Mytilineos, Joan	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
2549	Nehlsen-Canna	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8039	Noreen, Harriet	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
4141	Pollack, Maril	NT	NT	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
3753	Reed/Rajaling	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	
3798	Reinsmoen, Nan	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
1694	Sauer, Norbert	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
3410	Schroeder, M.L.	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
1426	Senitzer, David	POS	NEG	POS	POS	*001	*01502	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	*003	MULTIPLEX SSP
740	Snider, Denis																	SSP
702	Spannagl, Michae	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8032	Stavropoulos-Gio	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
230	Thoni, Deborah	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	NEG	POS	POS	NEG	POS	SSOP
747	Tiercy, Jean-Marie	POS	NEG	POS	POS	*001, *005	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
4021	Trachtenberg, Eliz	POS	NEG	POS	POS	A*001, B*006	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	POS	MALDI-TDF
8024	Trowsdale, Joh	POS	NEG	POS	NT	POS	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	POS	SSP
5462	Turner, Victor	NT	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	*003	SSP
8028	Uhrberg, Marku	POS	NEG	POS	NT	POS	POS	POS	NT	POS	POS	NEG	NEG	*001/ *002	POS	NT	NT	SSP
3775	Vidan-Jeras, Bl	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8023	Vilches, Carlo	POS	NEG	POS	POS	A*001	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	*003	SSP
8047	Wassmuth, Ralf	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
1466	Yu, Neng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	*003	SSOP
713	Zachary, Andre	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP

**PARTICIPATING CENTERS**

Name			City/State	Country	Name			City/State	Country
Adams	Sharon		Bethesda MD		MacCann	Eileen		Providence RI	
Balazs	Ivan		Stamford CT		Mah	Helen		Boston MA	
Carrington/Martin		Drs	Frederick MD		Marsh	Steven	Dr	London	England
Chan	Soh Ha	Prof	Singapore	Singapore	McCluskey	James	Prof	Adelaide	Australia
Charlton	Ronald	PhD	Jacksonville FL		Middleton	Derek	Prof	Belfast	N. Ireland
Chen	Dongfeng	Dr	Durham NC		Mytilineos	Joannis	MD	Ulm	Germany
Chongkolwatana/Vejbaesya		Drs	Bangkok	Thailand	Nehlsen-Cannarella	Sandra	Dr	Detroit MI	
Christiansen/Witt			Perth	Australia	Noreen	Harriet		Minneapolis MN	
Colombe	Beth	PhD	Philadelphia PA		Olerup	Olle		Saltsjobaden	Sweden
Cook	Daniel J.	PhD	Cleveland OH		Pollack	Marilyn	PhD	San Antonio TX	
Costeas	Paul A.	Dr	Nicosia	Cyprus	Reed/Rajalingam		Drs	Los Angeles CA	
Crowe	Deborah	PhD	Nashville TN		Reinsmoen	Nancy	PhD	Los Angeles CA	
Davidson/Poulton		Drs	Manchester	England	Satake	Masahiro	MD	Tokyo	Japan
Davis	Mary	PhD	Stamford CT		Sauer	Norbert		Lich	Germany
Dinauer	David		Brown Deer WI		Schroeder	M.L.	MD	Winnipeg MB	Canada
Dunckley	Heather	PhD	Sydney NSW	Australia	Senitzer	David	PhD	Duarte CA	
Fernandez-Vina	Marcelo	PhD	Houston TX		Snider	Denis	PhD	Buffalo NY	
Fischer	Gottfried	Dr	Vienna	Austria	Spannagl	Michael	Dr	Munich	Germany
Gardiner	Clair	PhD	Dublin	Ireland	Stavropoulos-Giokas	Catherine	Dr	Athens	Greece
Gillespie	Kathleen	Dr	Bristol	UK	Thoni	Deborah	MD	Orlando FL	
Gladman/Pellett			Toronto ON	Canada	Tiercy	Jean-Marie	Dr	Geneva	Switzerland
Graff	Ralph J.	Dr	St Louis MO		Trachtenberg	Elizabeth	PhD	Oakland CA	
Han	Hoon	Dr	Seoul	S. Korea	Trowsdale	John	Prof	Cambridge	UK
Hidajat	Melanny		Brugge	Belgium	Turner	E.V.	PhD	Memphis TN	
Holdsworth/Tait			South Melbourne	Australia	Uhrberg	Markus	Dr	Dusseldorf	Germany
Hsu	Susan H.	PhD	Philadelphia PA		Vidan-Jeras	Blanka		Ljubljana	Slovenia
Kim	Tai-Gyu	Prof	Seoul	S. Korea	Vilches	Carlos	Dr	Madrid	Spain
Kotsch	Katja	PhD	Berlin	Germany	Wassmuth	Ralf	Prof	Dresden	Germany
KuKuruga	Debra	PhD	Baltimore MD		Watkins	David	PhD	Madison WI	
Kusnierczyk	Piotr		Wroclaw	Poland	Yu	Neng	MD	Dedham MA	
Loewenthal	Ron	MD PhD	Tel-Hashomer	Israel	Zachary	Andrea	PhD	Baltimore MD	