

REPORT OF THE 25TH UCLA INTERNATIONAL KIR EXCHANGE

AUGUST 3, 2011

KIR	97-100
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Dear Colleagues:

For the 25th KIR Exchange, 4 DNA samples (KDNA#97-100) were shipped to each laboratory on May 4, 2011. Sixty-four laboratories submitted their KIR typing results. The majority of the laboratories used either commercial or in-house developed sequence-specific primer (SSP) based PCR typing systems, and others used sequence-specific oligonucleotide probing (SSOP) method.

The results for the 25th KIR Exchange are summarized in Table 1 and individual laboratory results reported for each DNA sample are provided in Tables 2-5. Subtyping results for KIR2DL2, 2DL5, 3DL1, 2DS1, 2DS4, and 3DP1 loci were reported by some laboratories. The positive/negative

assignments for all 4 DNA samples were reported without any discrepancy for 7 of the 16 tested KIR loci (KIR2DL4, 2DL5, 3DL2, 3DL3, 3DS1, 2DS1, 2DS4). Discrepant results from the consensus typing are italicized in Tables 1-5, 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 continued participation in the UCLA KIR Exchange program.

KIR Exchange Sample: KDNA # 0097:

The ethnic information for this sample was unavailable. The consensus KIR type is reported as 2DL1-2DL3-2DL4-2DL5A-3DL2-3DL3-3DS1-2DS1-2DS3-2DS5-2DP1-3DP1. Two laboratories reported this sample as positive for KIR2DL2 and one laboratory reported it as positive for 3DL1 and 2DS2. This genotype occurs in Asian populations with a frequency of < 2% (1).

KIR Exchange Sample: KDNA # 0098:

KDNA#98 was derived from an Hispanic donor. The consensus KIR type of this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5A-3DL2-3DL3-3DS1-2DS1-2DS2-2DS5-2DP1-3DP1. One laboratory reported this sample as positive for both 3DL1 and 2DS3. This sample was previously studied as KDNA#57 in 2008 and discrepancies were reported for 6 KIR loci (2DL1, 2DL2, 2DL5, 3DL1, 2DS2, and 2DS4). This genotype is among the most common genotypes identified in the Warao and Bari tribes of Venezuela (2). However, in Asian populations, including Chinese and southern Indians (1), it occurs at low frequency and is completely absent in African populations.

KIR Exchange Sample: KDNA # 0099:

The ethnic origin of KDNA#99 is unknown. The consensus KIR type is reported as 2DL2-2DL4-2DL5A-3DL1-3DL2-3DL3-3DS1-2DS1-2DS2-2DS4-2DS5-3DP1. Several laboratories reported discrepant results for a number of genes: 2DL1, 2DL3, 2DS3, 2DP1, and 3DP1. This sample with this rare genotype was previously sent in the KIR Exchange as KDNA#17 (2004). Of the 26 participating laboratories in 2004, two reported discrepant results. One reported the sample as positive for 2DL1 and the other reported it as negative for 3DP1. This genotype occurs at a frequency of 0.2% in Caucasians (3).

KIR Exchange Sample: KDNA # 0100:

This sample was isolated from an Hispanic donor. The consensus KIR type of this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5A-3DL1-3DL2-3DL3-3DS1-2DS1-2DS2-2DS3-2DS4-2DP1-3DP1. One laboratory reported this sample as positive for KIR2DS5. This genotype has been observed most frequently in Australian Aboriginals (15%) and in European Caucasians (~10%) (3, 4).

References

1. Rajalingam, R., Du, Z., Meenagh, A., Luo, L., Kavitha, V. J., Pavithra-Arulvani, R., Vidhyalakshmi, A., Sharma, S. K., Balazs, I., Reed, E. F., *et al.* 2008. Distinct diversity of KIR genes in three southern Indian populations: comparison with world populations revealed a link between KIR gene content and pre-historic human migrations. *Immunogenetics* 260:207-217.
2. Gendzekhadze, K., Norman, P. J., Abi-Rached, L., Layrisse, Z., and Parham, P. 2006. High KIR diversity in Amerindians is maintained using few gene-content haplotypes. *Immunogenetics* 58:474.
3. Yawata M., Yawata N., Abi-Rached L., and Parham P. Variation within the human killer cell immunoglobulin-like receptor (KIR) gene family. 2002. *Crit Rev Immunol* 22:463-482.
4. Toneva, M., Lepage, V., Lafay, G., Dulphy, N., Busson, M., Lester, S., Vu-Trien, A., Michaylova, A., Naumova, E., McCluskey, J., and Charron, D. 2001. Genomic diversity of natural killer cell receptor genes in three populations. *Tissue Antigens* 57, 358-362.

NEXT MAILING DATE: February 1, 2012

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Table 1. Summary of the 25th KIR Exchange (KDNA#97-100)

KIR Ex.	DNA	# reporting labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#25	#0097	64	POS	NEG <i>POS [2]</i>	POS	POS NT [2]	POS A [19] A*001/ *005 [3]	NEG <i>POS [1]</i>	POS NT [1]	POS NT [2]	POS	POS <i>*002- *004 [2]</i>	NEG <i>POS [1]</i>	POS	NEG	POS	POS NT [2]	POS <i>*003 [14] DEL [6] *00301/ *00302 [1] NT [3]</i>
	#0098	64	POS	POS <i>*001-*003/ *005 [2]</i>	POS	POS NT [2]	POS A [19] A*001/ *005 [2] A*001 [1]	NEG <i>POS [1]</i>	POS NT [1]	POS NT [2]	POS	POS <i>*002- *004 [2]</i>	POS	NEG <i>POS [1]</i>	NEG	POS	POS NT [2]	POS <i>*001/ *002/ *004, *003 [5] FULL, DEL [5] *003 [1] FULL [1] NT [3]</i>
	#0099	64	NEG <i>POS [1]</i>	POS <i>*001-*003/ *005 [2]</i>	NEG <i>POS [2]</i>	POS NT [2]	POS A [19] A*001/ *005 [2] A*001 [1]	POS <i>*002 [1] *001-*020 [1]</i>	POS NT [1]	POS NT [2]	POS	POS <i>*002- *004 [2]</i>	POS	NEG <i>POS [1]</i>	POS FULL [12] <i>*001/ *002 [10] *001 [4] *00101- *00103 [2]</i>	POS	NEG <i>POS [2] NT [2]</i>	POS <i>*001/ *002/ *004 [12] FULL [5] *001-*006 [1] *003 [1] NT [3] NEG [1]</i>
	#0100	64	POS	POS <i>*001- *003/ *005 [2]</i>	POS	POS NT [2]	POS A [19] A*001/ *005 [2] A*005 [1]	POS <i>*01502 [1] *001-*020 [1]</i>	POS NT [1]	POS NT [2]	POS	POS <i>*002- *004 [2]</i>	POS	POS	POS FULL [12] <i>*001/ *002 [10] *001 [4] *00101- *00103 [2]</i>	NEG <i>POS [1]</i>	POS NT [2]	POS <i>*001/ *002/ *004, *003 [5] FULL, DEL [5] *003 [1] FULL [1] NT [3]</i>

KEY for Table 1
 [] - number of labs reporting allele
 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
 RSSOP - Reverse Sequence-specific oligonucleotide probing-
 SBT - Sequencing-based typing

Table 2. KIR Exchange Sample: KDNA #97

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	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	*003	SSP	
16	Askar, Medhat	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP, SSP	
8050	Baxter-Lowe, Lee	POS	NEG	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	*003	SSP	
8025	Carrington&Marti	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	NT	SSP	
785	Chan, Soh Ha	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	RT-PCR	
3224	Chen, Dong-Feng	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP, SSOP	
3632	Colombe, Beth	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	*002- *004	NEG	POS	NEG	POS	POS	*003	SSP
189	Crowe, Deborah	POS	NEG	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	*003	SSP
8031	Dinauer, David	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	DEL	SSP
3428	Eckels/Utah	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP	
4251	Ellis, Thomas	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP	
8051	Endres, Robert	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	*003	SSP
2549	Fagoaga, Omar	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	DEL	SSP
8038	Fernandez-Vina&	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP	
762	Fischer&Mayr	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	*003	SSP
8047	Fuessel, Monika	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP	
8026	Gardiner, Clair M.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP	
8040	Gladman/Pellet/P	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP	
234	Gomez, Carmen	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP	
1694	Gottwald&Hesse	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP	
4985	Graff, Ralph J.	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP	
8041	Han, Hoon	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	*00301/ *00302	SSP
1461	Hidajat, M.	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	*003	SSP
5000	Hsu, Susan H.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP, SSP	
2344	Hurley&Hartzman	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP, SSOP	
3261	Iwaki, Yui	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP	
8035	Kanangat, Siva	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP	
4337	Kim, Tai-Gyu	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP	
8046	Kusnierczyk, Piot	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	MULTIPLEX SSP	
8071	Kwok, Janette	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP	
791	Lacelle, Chantale	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	*003	SSP
278	Lee, Jar-How	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP	
1108	Linke, Robert	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP	
8069	Maha, George	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	DEL	
8067	Marino, Susan R.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP, SSOP	
5142	Marsh, Steven	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	*003	SSP, SBT
733	Mytilineos, Joanni	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP	
8039	Noreen, Harriet	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP	
8022	Olerup SSP AB	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP	
3966	Permpikul&Vejba	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP	
8030	Poulton, Kay V.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP	
8057	Ray&Balazs	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP	
3753	Reed&Rajalingam	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP, SSP	

Table 2. KIR Exchange Sample: KDNA #97

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8064	Roberts,Chrissy	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	*003	WGA-SSP
8060	Rost&Klein	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP
3410	Schroeder,M.L.	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	*003	SSP
1426	Senitzer,David	POS	NEG	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	MULTIPLEX-SSP
2518	Tambur,Anat	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
769	Tavoularis,Sofia	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP,SSP
230	Thoni,Deborah	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP
5451	Tilanus,Marcel	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8024	Trowsdale,John	POS	NEG	POS	NT	POS	NEG	NT	NT	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
5462	Turner,E.V.	POS	NEG	POS	POS	A	NEG	POS	POS	POS	*002- *004	NEG	POS	NEG	POS	POS	POS	SSP
8053	Tyan,Dolly	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	*003	SSP,SS0P
8028	Uhrberg,Markus	POS	NEG	POS	NT	POS	NEG	POS	NT	POS	POS	NEG	POS	NEG	POS	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8023	Vilches,Carlos	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
705	Watkins,David I.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSOP
3186	Watson,Narelle	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
124	Witt,Campbell	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NT	NT	MULTIPLEX SSP
1466	Yu,Neng	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	*003	SSP
5282	Yu,Neng	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
713	Zachary,Andrea	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	*003	SSP

Table 3. KIR Exchange Sample: KDNA #98(Hispanic)

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	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
16	Askar,Medhat	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP,SSP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8025	Carrington&Marti	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NT	SSP
785	Chan,Soh Ha	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	RT-PCR
3224	Chen,Dong-Feng	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP,SSOP
3632	Colombe,Beth	POS	POS	POS	POS	A	NEG	POS	POS	POS	*002- *004	POS	NEG	NEG	POS	POS	*001/ *002/ *004, *003	SSP
189	Crowe,Deborah	POS	POS	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8031	Dinauer,David	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	SSP
3428	Eckels/Utah	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
4251	Ellis,Thomas	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
8051	Endres,Robert	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL	SSP
2549	Fagoaga,Omar	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8038	Fernandez-Vina&	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
762	Fischer&Mayr	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8047	Fuessel,Monika	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8026	Gardiner,Clair M.	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*003	SSP
8040	Gladman/Pellett/P	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
234	Gomez,Carmen	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
1694	Gottwald&Hesse	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
4985	Graff,Ralph J.	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8041	Han,Hoon	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
1461	Hidajat,M.	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
5000	Hsu,Susan H.	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP,SSP
2344	Hurley&Hartzman	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP, SSOP
3261	Iwaki, Yui	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8035	Kanangat,Siva	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
4337	Kim,Tai-Gyu	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8046	Kusnierczyk,Piot	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	MULTIPLEX SSP
8071	Kwok, Janette	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
791	Lacelle,Chantale	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002/ *004, *003	SSP
278	Lee,Jar-How	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
1108	Linke,Robert	POS	*001- *003/ *005	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
8069	Maha,George	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	
8067	Marino,Susan R.	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP,SSOP
5142	Marsh,Steven	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002/ *004, *003	SSP,SBT
733	Mytilineos,Joanni	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8039	Noreen,Harriet	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
8022	Olerup SSP AB	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP

Table 3. KIR Exchange Sample: KDNA #98(Hispanic)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
3966	Permpikul&Vejba	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8030	Poulton,Kay V.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
8057	Ray&Balazs	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
3753	Reed&Rajalingam	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP,SSP
8064	Roberts,Chrissy	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002/ *004, *003	WGA-SSP
8060	Rost&Klein	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
3410	Schroeder,M.L.	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
1426	Senitzer,David	POS	POS	POS	POS	A*001	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	MULTIPLEX SSP
2518	Tambur,Anat	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSO
769	Tavoularis,Sofia	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP,SSP
230	Thoni,Deborah	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
5451	Tilanus,Marcel	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8024	Trowsdale,John	POS	POS	POS	NT	POS	NEG	NT	NT	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	SSP
5462	Turner,E.V.	POS	POS	POS	POS	A	NEG	POS	POS	POS	*002- *004	POS	NEG	NEG	POS	POS	POS	SSP
8053	Tyan,Dolly	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002/ *004, *003	SSP,SSOP
8028	Uhrberg,Markus	POS	POS	POS	NT	POS	NEG	POS	NT	POS	POS	POS	NEG	NEG	POS	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	SSP
705	Watkins,David I.	POS	*001- *003/ *005	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
3186	Watson,Narelle	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
124	Witt,Campbell	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	NT	NT	MULTIPLEX SSP
1466	Yu,Neng	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
5282	Yu,Neng	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	SSP
713	Zachary,Andrea	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP

Table 4. KIR Exchange Sample: KDNA #99

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	*001/ *002	POS	NEG	*001/ *002/ *004	SSP
16	Askar, Medhat	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	FULL	POS	NEG	POS	SSOP, SSP
8050	Baxter-Lowe, Lee	NEG	POS	NEG	POS	A*001/ *005	POS	POS	POS	POS	POS	POS	NEG	*001/ *002	POS	NEG	*001/ *002/ *004	SSP
8025	Carrington&Marti	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	FULL	POS	NEG	NT	SSP
785	Chan, Soh Ha	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	RT-PCR
3224	Chen, Dong-Feng	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP, SSOP
3632	Colombe, Beth	NEG	POS	NEG	POS	A	*001- *020	POS	POS	POS	*002- *004	POS	NEG	*001	POS	NEG	*001/ *002/ *004	SSP
189	Crowe, Deborah	NEG	POS	NEG	POS	A*001/ *005	POS	POS	POS	POS	POS	POS	NEG	*001/ *002	POS	NEG	*001/ *002/ *004	SSP
8031	Dinauer, David	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	FULL	POS	NEG	FULL	SSP
3428	Eckels/Utah	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	FULL	POS	NEG	POS	SSP
4251	Ellis, Thomas	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
8051	Endres, Robert	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	*001/ *002	POS	NEG	*001/ *002/ *004	SSP
2549	Fagoaga, Omar	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	FULL	POS	NEG	POS	SSP
8038	Fernandez-Vina&	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*001	POS	NEG	POS	SSOP
762	Fischer&Mayr	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	*001/ *002	POS	NEG	POS	SSP
8047	Fuessel, Monika	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
8026	Gardiner, Clair M.	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*003	SSP
8040	Gladman/Pellett/P	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
234	Gomez, Carmen	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
1694	Gottwald&Hesse	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
4985	Graff, Ralph J.	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
8041	Han, Hoon	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*001/ *002	POS	NEG	*001/ *002/ *004	SSP
1461	Hidajat, M.	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	*001/ *002	POS	NEG	*001/ *002/ *004	SSP
5000	Hsu, Susan H.	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP, SSP
2344	Hurley&Hartzman	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP, SSOP
3261	Iwaki, Yui	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
8035	Kanangat, Siva	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
4337	Kim, Tai-Gyu	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
8046	Kusnierczyk, Piot	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	FULL	POS	NEG	POS	MULTIPLEX SSP
8071	Kwok, Janette	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
791	Lacelle, Chantale	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	*001/ *002	POS	NEG	*001/ *002/ *004	SSP
278	Lee, Jar-How	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
1108	Linke, Robert	NEG	*001- *003/ *005	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*00101- *00103	POS	NEG	POS	SSOP
8069	Maha, George	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	FULL	POS	NEG	FULL	
8067	Marino, Susan R.	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP, SSOP

Table 4. KIR Exchange Sample: KDNA #99

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5142	Marsh, Steven	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*001/ *002/ *004	SSP, SBT
733	Mytilineos, Joanni	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
8039	Noreen, Harriet	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
8022	Olerup SSP AB	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
3966	Permpikul&Vejba	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
8030	Poulton, Kay V.	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	SSOP
8057	Ray&Balazz	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	FULL	POS	NEG	POS	SSOP
3753	Reed&Rajalingam	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP, SSP
8064	Roberts, Chrissy	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*001	POS	NEG	*001/ *002/ *004	WGA-SSP
8060	Rost&Klein	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
3410	Schroeder, M.L.	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	*001/ *002	POS	NEG	POS	SSP
1426	Senitzer, David	NEG	POS	NEG	POS	A*001	*002	POS	POS	POS	POS	POS	NEG	FULL	POS	NEG	POS	MULTIPLEX SSP
2518	Tambur, Anat	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSO
769	Tavoularis, Sofia	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP, SSP
230	Thoni, Deborah	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
5451	Tilanus, Marcel	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
4021	Trachtenberg, Eliz	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
8024	Trowsdale, John	NEG	POS	NEG	NT	POS	POS	NT	NT	POS	POS	POS	NEG	FULL	POS	NEG	FULL	SSP
5462	Turner, E.V.	NEG	POS	NEG	POS	A	POS	POS	POS	POS	*002- *004	POS	NEG	*001	POS	NEG	*001- *006	SSP
8053	Tyan, Dolly	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	*001/ *002	POS	NEG	*001/ *002/ *004	SSP, SSOP
8028	Uhrberg, Markus	NEG	POS	NEG	NT	POS	POS	POS	NT	POS	POS	POS	NEG	POS	POS	NT	NT	SSP
3775	Vidan-Jeras, Blan	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
8023	Vilches, Carlos	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	FULL	POS	NEG	FULL	SSP
705	Watkins, David I.	NEG	*001- *003/ *005	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*00101- *00103	POS	NEG	POS	SSOP
3186	Watson, Narelle	NEG	POS	NT	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
124	Witt, Campbell	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	FULL	POS	NT	NT	MULTIPLEX SSP
1466	Yu, Neng	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
5282	Yu, Neng	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	FULL	POS	NEG	FULL	SSP
713	Zachary, Andrea	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*001/ *002/ *004	SSP

Table 5. KIR Exchange Sample: KDNA #100 (Hispanic)

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	POS	POS	POS	POS	POS	POS	POS	*001/ *002	NEG	POS	POS	SSP
16	Askar, Medhat	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	POS	SSOP, SSP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	*001/ *005	POS	POS	POS	POS	POS	POS	POS	*001/ *002	NEG	POS	POS	SSP
8025	Carrington&Marti	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	NT	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	RT-PCR
3224	Chen, Dong-Feng	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP, SSOP
3632	Colombe, Beth	POS	POS	POS	POS	A	*001-*020	POS	POS	POS	*002- *004	POS	POS	*001	NEG	POS	*001/ *002/ *004, *003	SSP
189	Crowe, Deborah	POS	POS	POS	POS	*001/ *005	POS	POS	POS	POS	POS	POS	POS	*001/ *002	NEG	POS	POS	SSP
8031	Dinauer, David	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	FULL, DEL	SSP
3428	Eckels/Utah	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	POS	SSP
4251	Ellis, Thomas	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
8051	Endres, Robert	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	*001/ *002	NEG	POS	FULL	SSP
2549	Fagoaga, Omar	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	POS	SSP
8038	Fernandez-Vina&	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001	NEG	POS	POS	SSOP
762	Fischer&Mayr	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	*001/ *002	NEG	POS	POS	SSP
8047	Fuessel, Monika	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8026	Gardiner, Clair M.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*003	SSP
8040	Gladman/Pellett/P	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
234	Gomez, Carmen	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
1694	Gottwald&Hesse	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8041	Han, Hoon	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	NEG	POS	POS	SSP
1461	Hidajat, M.	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	*001/ *002	NEG	POS	POS	SSP
5000	Hsu, Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP, SSP
2344	Hurley&Hartzman	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP, SSOP
3261	Iwaki, Yui	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8035	Kanangat, Siva	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
4337	Kim, Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8046	Kusnierczyk, Piot	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	POS	MULTIPLEX SSP
8071	Kwok, Janette	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
791	Lacelle, Chantale	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	*001/ *002	NEG	POS	*001/ *002/ *004, *003	SSP
278	Lee, Jar-How	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
1108	Linke, Robert	POS	*001-*003/ *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*00101- *00103	NEG	POS	POS	SSOP
8069	Maha, George	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	FULL, DEL	
8067	Marino, Susan R.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP, SSOP

Table 5. KIR Exchange Sample: KDNA #100 (Hispanic)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5142	Marsh,Steven	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*001/ *002/ *004, *003	SSP,SBT
733	Mytilineos,Joanni	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8039	Noreen,Harriet	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
8022	Olerup SSP AB	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
3966	Permpikul&Vejba	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8030	Poulton,Kay V.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
8057	Ray&Balazs	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	POS	SSOP
3753	Reed&Rajalingam	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP,SSP
8064	Roberts,Chrissy	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001	NEG	POS	*001/ *002/ *004, *003	WGA-SSP
8060	Rost&Klein	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
3410	Schroeder,M.L.	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	*001/ *002	NEG	POS	POS	SSP
1426	Senitzer,David	POS	POS	POS	POS	*005	*01502	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	POS	MULTIPLEX SSP
2518	Tambur,Anat	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSO
769	Tavoularis,Sofia	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP,SSP
230	Thoni,Deborah	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
5451	Tilanus,Marcel	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8024	Trowsdale,John	POS	POS	POS	NT	POS	POS	NT	NT	POS	POS	POS	POS	FULL	NEG	POS	FULL, DEL	SSP
5462	Turner,E.V.	POS	POS	POS	POS	A	POS	POS	POS	POS	*002- *004	POS	POS	*001	NEG	POS	POS	SSP
8053	Tyan,Dolly	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	*001/ *002	NEG	POS	*001/ *002/ *004, *003	SSP,SSOP
8028	Uhrberg,Markus	POS	POS	POS	NT	POS	POS	POS	NT	POS	POS	POS	POS	POS	NEG	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	FULL, DEL	SSP
705	Watkins,David I.	POS	*001-*003/ *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*00101- *00103	NEG	POS	POS	SSOP
3186	Watson,Narelle	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
124	Witt,Campbell	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	NT	NT	MULTIPLEX SSP
1466	Yu,Neng	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
5282	Yu,Neng	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	FULL, DEL	SSP
713	Zachary,Andrea	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP

PARTICIPATING CENTERS

Name			City/State	Country	Name			City/State	Country
Adams	Sharon		Bethesda MD		Maha	George	PhD	Burlington NC	
Baxter-Lowe	Lee Ann	Dr	San Francisco CA		Marino	Susana R		Chicago IL	
Carrington/Martin		Drs	Frederick MD		Marsh	Steven	Dr	London	England
Chan	Soh Ha	Prof	Singapore	Singapore	Mytilineos	Joannis	MD	Ulm	Germany
Charlton	Ronald	PhD	Jacksonville FL		Noreen	Harriet		Minneapolis MN	
Chen	Dongfeng	Dr	Durham NC		Olerup SSP AB			Saltsjobaden	Sweden
Colombe	Beth	PhD	Philadelphia PA		Permpikul/Vejbaesya		Drs	Bangkok	Thailand
Crowe	Deborah	PhD	Nashville TN		Pidwell/Askar	Medhat		Cleveland OH	
Dinauer	David		Brown Deer WI		Poulton	Kay V.	Dr	Manchester	England
Eckels	David	Dr	Salt Lake City UT		Ray/Balazs			Stamford CT	
Ellis	Thomas	PhD	Milwaukee WI		Reed/Rajalingam		Drs	Los Angeles CA	
Endres	Robert	Dr	Tempe AZ		Roberts	Chrissy H.		London	England
Fagoaga	Omar	Dr	Detroit MI		Rost/Klein		Drs	Martinsried	Germany
Fernandez-Vina/Cano		Drs	Houston TX		Schroeder	M.L.	MD	Winnipeg MB	Canada
Fischer/Mayr		Drs	Vienna	Austria	Senitzer	David	PhD	Duarte CA	
Fuessel	Monika	PhD	Dresden	Germany	Tambur	Anat		Chicago IL	
Gardiner	Clair M.	PhD	Dublin	Ireland	Tavoularis	Sofia	Dr	Ottawa ON	Canada
Gladman/Pellett/Pollock			Toronto ON	Canada	Thoni	Deborah	MD	Orlando FL	
Gomez	Carmen		Miami FL		Tiercy	Jean-Marie	Dr	Geneva	Switzerland
Gottwald/Hesse			Lich	Germany	Tilanus	Marcel	Dr	Maastricht	Germany
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	Rhonda		South Melbourne	Australia	Tyan	Dolly	Dr	Palo Alto	
Hsu	Susan H.	PhD	Philadelphia PA		Uhrberg	Markus	Dr	Dusseldorf	Germany
Hurley/Hartzman		Drs	Rockville MD		Vidan-Jeras	Blanka		Ljubljana	Slovenia
Iwaki	Yui	Dr	San Bernardino CA		Vilches	Carlos	Dr	Madrid	Spain
Kanangat	Siva	PhD	Chicago IL		Watkins	David	PhD	Madison WI	
Kim	Tai-Gyu	Prof	Seoul	S. Korea	Watson	Narelle	PhD	Sydney NSW	Australia
Kusnierczyk	Piotr	PhD	Wroclaw	Poland	Witt	Campbell		Perth	Australia
Kwok	Janette	Dr	Hong Kong		Yu	Neng	MD	DedhamMA	
Lacelle	Chantale	MD	Dallas TX		Yu	Neng	MD	Worcester MA	
Lee	Jar-How	Dr	Canoga Park CA		Zachary	Andrea	PhD	Baltimore MD	
Linke	Robert	PhD	Stamford CT						