

REPORT OF THE 38TH UCLA INTERNATIONAL KIR EXCHANGE OCTOBER 20, 2015

KIR	149–152
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For the 38th KIR Exchange, 4 DNA samples (KDNA#149-152) were shipped to 78 participating laboratories. A total of 73 laboratories submitted their KIR typing results. The majority of the laboratories used either commercial or in-house developed sequence-specific primer (SSP) based PCR and sequence-specific oligonucleotide probe (SSOP) typing systems.

The results for the 38th 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 subtypes for 2DS4 and

3DP1 are denoted as FULL or DEL. The positive/negative assignments for all 4 DNA samples were reported without any discrepancy for 5 of the 16 tested KIR loci (KIR2DL5, 3DL2, 3DL3, 2DS4, and 3DP1). 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.

Thank you for your continued participation in the UCLA KIR Exchange program.

KIR Exchange Sample: KDNA # 0149:

This sample from a Hispanic donor was not graded. Internal control failures were noted by labs using SSP, as well as SSO. We apologize for any inconvenience caused. Despite the issues with the internal controls, a number of labs (n=43) were still able to assign a KIR type to this sample. The reported KIR type was KIR2DL1-2DL3-2DL4-2DL5-3DL2-3DL3-3DS1-2DS1-2DS3-2DS5-2DP1-3DP1.

KIR Exchange Sample: KDNA # 0150:

The consensus KIR type for this sample from a Black donor is KIR2DL1-2DL2-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS4FULL-2DS5-2DP1-3DP1DEL. A number of discrepancies (n=10) were reported for this sample. Two labs reported 2DL2 as negative, 2 reported 2DL3 as positive, and 2 others reported 2DS3 as positive. One lab accounted for the remaining 4 discrepancies, reporting 2DL1 and 3DL1 as negative and 3DS1 and 2DS1 as positive. The genotype in this sample is observed exclusively in African Americans at a frequency of 3.5% (1, 2).

KIR Exchange Sample: KDNA # 0151:

The consensus KIR type for this sample of unknown ethnicity is KIR2DL1-2DL3-2DL4-2DL5A-3DL2-3DL3-3DS1-2DS1-2DS3-2DS5-2DP1-3DP1DEL. One lab reported 3DL1 as positive and 2DP1 as negative. The genotype in this sample is observed most frequently among the Kanakar in Asian India (2.9%) and Korean (1.9%) populations (3, 4).

KIR Exchange Sample: KDNA # 0152:

The consensus KIR type for this sample from a Black donor is KIR2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS2-2DS3-2DS4FULL&DEL-2DP1-3DP1DEL. Three labs reported this sample as negative for 2DS2 and 2 labs reported it as 2DS5-positive. KIR2DL2, 2DL4, 3DL1, and 2DS3 were all reported as negative by 1 lab. The genotype in this sample is observed across all populations. Among African Americans, it occurs at a frequency of 12.1% (1).

References:

1. Norman PJ, Carrington CV, Byng M, Maxwell LD, Curran MD, et al. Natural killer cell immunoglobulin-like receptor (KIR) locus profiles in African and South Asian populations. *Genes Immun* 2002;3:86–95.
2. Middleton D, Meenagh A, Moscoso J, et al. Killer immunoglobulin receptor gene and allele frequencies in Caucasoid, Oriental and Black populations from different continents. *Tissue Antigens* 2008;71:105-113.
3. 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* 2008;60:207-217.
5. Whang DH, Park H, Yoon JA, and Park MH. Haplotype analysis of killer cell immunoglobulin-like receptor genes in 77 Korean families. *Hum Immun.* 2005;66:146-154

NEXT MAILING DATE: February 3, 2016

Happy Holidays

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Table 1. Summary of the 38 th KIR Exchange (KDNA #149-152)																		
KIR Ex.	DNA	# Reporting Labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#38	149	71	POS[44] NT {27}	NEG[43], NT[28]	POS[42], NEG [1], NT[28]	POS[43], NT[28]	POS[42], NT[29]	NEG[41], POS[2], NT[28]	POS[43], NT[28]	POS[43], NT[28]	POS[44], NT[27]	POS[44], NT[27]	NEG[43], NT[28]	POS[44], NT[27]	NEG[42], POS[1], NT[28]	POS[44], NT[27]	POS[42] NT[29]	POS[36], DEL(5) NT[30]
	150	73	POS[71] , <i>NEG[1]</i> , NT[1]	POS[69] , <i>*001/*002/*003/*005[1]</i> , <i>NEG[2]</i> , NT[1]	NEG[70] , <i>POS[2]</i> , NT[1]	POS[70] , NT[3]	POS[59] , B[12], NT[2]	POS[71] , <i>NEG[1]</i> , NT[1]	POS[70] , NT[3]	POS[69] , NT[4]	NEG[71] , <i>POS[1]</i> , NT[1]	NEG[71] , <i>POS[1]</i> , NT[1]	NEG[72] , NT[1]	NEG[70] , <i>POS[2]</i> , NT[1]	POS[48] , FULL[22], WT[1], NT[2]	POS[72] , NT[1]	POS[69] , NT[4]	POS[54] , DEL[14], NT[5]
	151	73	POS[72] , NT[1]	NEG[70] , <i>POS[1]</i> , <i>*001/*002/*003/*005[1]</i> , NT[1]	POS[72] , NT[1]	POS[70] , NT[3]	POS[56] , A[14], A*00103+A*00501[1], NT[2]	NEG[71] , <i>POS[1]</i> , NT[1]	POS[70] , NT[3]	POS[69] , NT[4]	POS[72] , NT[1]	POS[71] , <i>*002- *008[1]</i> , NT[1]	NEG[72] , NT[1]	POS[72] , NT[1]	NEG[71] , NT[2]	POS[72] , NT[1]	POS[68] , <i>NEG[1]</i> , NT[4]	POS[54] , DEL[14] NT[5]
	152	73	POS[72] , NT[1]	POS[70] , <i>*001/*002/*003/*005[1]</i> , <i>NEG[1]</i> , NT[1]	POS[72] , NT[1]	POS[69] , <i>NEG[1]</i> , NT[3]	POS[56] , B[14], B*00201[1], NT[2]	POS[70] , <i>*00401, *01701[1]</i> , <i>NEG[1]</i> , NT[1]	POS[70] , NT[3]	POS[69] , NT[4]	NEG[72] , NT[1]	NEG[72] , NT[1]	POS[69] , <i>NEG[3]</i> , NT[1]	POS[71] , <i>NEG[1]</i> , NT[1]	POS[55] , FULL,DEL[15], WT/DEL[1], NT[2]	NEG[70] , <i>POS[2]</i> , NT[1]	POS[69] , NT[4]	POS[54] , DEL[14], NT[5]

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
 Subtypes of 2DS4 and 3DP1 are designated as FULL and/or DEL

KEY for Tables 2-5

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

Table 2. KIR Exchange Sample: KDNA #149

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	Not graded																	
5488	Adams, Sharon	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
234	Amador, Alexandra	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8094	Ameen, Reem	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
5462	Arnold, Paula	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
8073	Bengtsson, Mats	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
8038	Cao, Kai	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSO
8025	Carrington, Martin	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	NT	SSP
1461	Cauwelier, Barbara	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
3224	Chen, Dong-Feng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
189	Crowe, Deborah	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
1108	DeConinck, Martha	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	SSO
8095	denHollander, Neal	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
705	Ellis, Thomas	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSO
3410	Ellison, Cynthia	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
8051	Endres, Robert O.	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
2549	Fagoaga, Omar	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
762	Fischer, Gottfried	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
1778	Freed, Brian	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
8047	Fuessel, Monika	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8076	Gaitonde , Sujata	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
8026	Gardiner, Clair M.	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
1647	Gautreaux, Michae	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
124	Gizzarelli, Laila	POS	NEG	NEG	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NT	NT	SSP
8022	Hedlund, Anna	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
1694	Hesse, Nicole	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
4985	Hoover, Beverly	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
5000	Hsu, Susan H.	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO
2344	Hurley, Hartzman&	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
3261	Iwaki, Yuichi	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8086	Jie, Pan	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8093	Jindra, Peter	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8035	Kanangat, Siva	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
8079	Kashi, Zahra M.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
4337	Kim, Tai-Gyu	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8084	Kimball, Pam	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
8046	Kusnierczyk, Piotr	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8071	Kwok, Janette	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
791	Lacelle, Chantale	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
278	Lee, Jar-How	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8088	Liu, Cong	POS	NEG	POS	POS	NT	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP

Table 2. KIR Exchange Sample: KDNA #149

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
8069	Maha, George	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
8067	Marino, Susana R.	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO
5142	Marsh, Steven	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8092	Morris, Gerald	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
733	Mytilineos, Joannis	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8083	Nikaein, Afzal	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
3966	Permpikul, Vejbaes	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
4021	Pollack, Marilyn S.	POS	NT	POS	POS	POS	NT	POS	POS	POS	POS	NT	POS	NT	POS	POS	POS	SSP
8030	Poulton, Kay	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSO
8050	Raja, Rajalingam	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
3753	Reed, Elaine F.	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO
3798	Reinsmoen, Nancy	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO
8064	Roberts, Chrissy H	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
8090	Rossi, Angela	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
8060	Rost, Klein &	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSO
8039	Scalf,Carolynn	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSO
4251	Schiller, Jennifer	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
1426	Senitzer, David	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NT	NT	
8085	Shalini, Pereira	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SBT
8077	Shanahan, Thomas	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
702	Spannagl, Michael	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
2518	Tambur, Anat	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
3808	Thornton, Alycia	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
5451	Tilanus, Marcel G.J	POS	NEG	NT	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8024	Trowsdale, John	POS	NEG	POS	NT	POS	NEG	NT	NT	POS	POS	NEG	POS	NEG	POS	POS	DEL	
8053	Tyan, Fernandez-V	POS	NEG	POS	POS	NT	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP SSO
8028	Uhrberg, Markus	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
8023	Vilches, Carlos	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
1466	Yu, Neng	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
5282	Yu, Neng	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
713	Zachary, Andrea	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO

Table 3. KIR Exchange Sample: KDNA #150

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	Consensus	POS [70]	POS [69]	NEG [69]	POS [69]	POS + B[60]	POS [70]	POS [69]	POS [68]	NEG [70]	NEG [70]	NEG [71]	NEG [69]	POS + FULL [70]	POS [71]	POS [68]	POS + DEL [67]	
5488	Adams, Sharon	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	DEL	SSP SSO
234	Amador, Alexandra	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
8094	Ameen, Reem	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
5462	Arnold, Paula	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	POS	SSP
8073	Bengtsson, Mats	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
8038	Cao, Kai	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	POS	SSO
8025	Carrington, Martin	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	NT	SSP
1461	Cauwelier, Barbara	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	DEL	SSP
3224	Chen, Dong-Feng	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
3632	Colombe, Beth W.	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	DEL	SSP SSO
189	Crowe, Deborah	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
1108	DeConinck, Martha	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	POS	SSO
8095	denHollander, Neal	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	POS	SSO
705	Ellis, Thomas	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
3410	Ellison, Cynthia	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	DEL	SSP
8051	Endres, Robert O.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
2549	Fagoaga, Omar	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
762	Fischer, Gottfried	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	DEL	SSP
1778	Freed, Brian	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	DEL	SSP
8047	Fuessel, Monika	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
8076	Gaitonde, Sujata	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	
8026	Gardiner, Clair M.	NEG	NEG	NEG	POS	NT	NEG	NT	NT	POS	POS	NEG	POS	NT	POS	POS	POS	SSP
1647	Gautreaux, Michae	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	
124	Gizzarelli, Laila	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	NT	NT	SSP
8022	Hedlund, Anna	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	DEL	SSP
1694	Hesse, Nicole	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
4985	Hoover, Beverly	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	
5000	Hsu, Susan H.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
2344	Hurley, Hartzman&	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	POS	SSP
3261	Iwaki, Yuichi	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
8086	Jie, Pan	POS	NEG	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
8093	Jindra, Peter	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
8035	Kanangat, Siva	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	
8079	Kashi, Zahra M.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	
4337	Kim, Tai-Gyu	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
8084	Kimball, Pam	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	
8046	Kusnierczyk, Piotr	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	POS	SSP
8071	Kwok, Janette	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
791	Lacelle, Chantale	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	DEL	SSP
278	Lee, Jar-How	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
8088	Liu, Cong	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP

Table 3. KIR Exchange Sample: KDNA #150

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
8069	Maha, George	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	DEL	SSP
8067	Marino, Susana R.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
5142	Marsh, Steven	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
8092	Morris, Gerald	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	
8091	Murphey, Cathi	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
733	Mytilineos, Joannis	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
8083	Nikaein, Afzal	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
3966	Permpikul, Vejbaes	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
4021	Pollack, Marilyn S.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
8030	Poulton, Kay	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
8050	Raja, Rajalingam	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	DEL	SSP
3753	Reed, Elaine F.	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO
3798	Reinsmoen, Nancy	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
8064	Roberts, Chrissy H	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	POS	
8090	Rossi, Angela	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
8060	Rost, Klein &	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
8039	Scaf, Carolyn	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
4251	Schiller, Jennifer	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
1426	Senitzer, David	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	NT	NT	
8085	Shalini, Pereira	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SBT
8077	Shanahan, Thomas	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	
702	Spannagl, Michael	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
2518	Tambur, Anat	POS	*001/ *002/ *003/ *005	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	POS	POS	SSO
3808	Thornton, Alycia	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	DEL	SSP
5451	Tilanus, Marcel G.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
8024	Trowsdale, John	POS	POS	NEG	NT	POS	POS	NT	NT	NEG	NEG	NEG	NEG	WT	POS	POS	DEL	
8053	Tyan, Fernandez-V	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	DEL	SSP SSO
8028	Uhrberg, Markus	POS	POS	NEG	NT	POS	POS	POS	NT	NEG	NEG	NEG	NEG	POS	POS	NT	NT	SSP
8023	Vilches, Carlos	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	POS	POS	DEL	SSP
1466	Yu, Neng	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
5282	Yu, Neng	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	
713	Zachary, Andrea	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO

Table 4. KIR Exchange Sample: KDNA #151

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	Consensus	POS [71]	NEG [69]	POS [71]	POS [69]	POS + A[70]	NEG [70]	POS [69]	POS [68]	POS [71]	POS [70] NT[1]	NEG [71]	POS [71]	NEG [70]	POS [71]	POS [67]	POS + DEL [68]	
5488	Adams, Sharon	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP SSO
234	Amador, Alexandra	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8094	Ameen, Reem	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
5462	Arnold, Paula	POS	NEG	POS	POS	A	NEG	POS	POS	POS	*002-*008	NEG	POS	NEG	POS	POS	POS	SSP
8073	Bengtsson, Mats	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8038	Cao, Kai	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8025	Carrington, Martin	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	NT	SSP
1461	Cauwelier, Barbara	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
3224	Chen, Dong-Feng	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
3632	Colombe, Beth W.	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP SSO
189	Crowe, Deborah	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
1108	DeConinck, Martha	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8095	denHollander, Neal	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
705	Ellis, Thomas	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
3410	Ellison, Cynthia	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
8051	Endres, Robert O.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
2549	Fagoaga, Omar	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
762	Fischer, Gottfried	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
1778	Freed, Brian	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
8047	Fuessel, Monika	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8076	Gaitonde , Sujata	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
8026	Gardiner, Clair M.	POS	POS	POS	POS	NT	POS	NT	NT	POS	POS	NEG	POS	NT	POS	NEG	POS	SSP
1647	Gautreaux, Michael	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
124	Gizzarelli, Laila	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NT	NT	SSP
8022	Hedlund, Anna	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
1694	Hesse, Nicole	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
4985	Hoover, Beverly	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
5000	Hsu, Susan H.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
2344	Hurley, Hartzman&	POS	NEG	POS	POS	A*00501	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
3261	Iwaki, Yuichi	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8086	Jie, Pan	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8093	Jindra, Peter	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8035	Kanangat, Siva	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
8079	Kashi, Zahra M.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
4337	Kim, Tai-Gyu	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8084	Kimball, Pam	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
8046	Kusnierczyk, Piotr	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8071	Kwok, Janette	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
791	Lacelle, Chantale	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP

Table 4. KIR Exchange Sample: KDNA #151

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	Consensus	POS [71]	NEG [69]	POS [71]	POS [69]	POS + A[70]	NEG [70]	POS [69]	POS [68]	POS [71]	POS [70] NT[1]	NEG [71]	POS [71]	NEG [70]	POS [71]	POS [67]	POS + DEL [68]	
278	Lee, Jar-How	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8088	Liu, Cong	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8069	Maha, George	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
8067	Marino, Susana R.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
5142	Marsh, Steven	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8092	Morris, Gerald	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
8091	Murphey, Cathi	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
733	Mytilineos, Joannis	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8083	Nikaein, Afzal	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
3966	Permpikul, Vejbaes	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
4021	Pollack, Marilyn S.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
8030	Poulton, Kay	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8050	Raja, Rajalingam	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
3753	Reed, Elaine F.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
3798	Reinsmoen, Nancy	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
8064	Roberts, Chrissy H	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
8090	Rossi, Angela	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
8060	Rost, Klein &	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8039	Scaf,Carolynn	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
4251	Schiller, Jennifer	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
1426	Senitzer, David	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NT	NT	
8085	Shalini, Pereira	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SBT
8077	Shanahan, Thomas	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
702	Spannagl, Michael	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
2518	Tambur, Anat	POS	*003/ *005	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
3808	Thornton, Alycia	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
5451	Tilanus, Marcel G.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8024	Trowsdale, John	POS	NEG	POS	NT	POS	NEG	NT	NT	POS	POS	NEG	POS	NEG	POS	POS	DEL	
8053	Tyan, Fernandez-V	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP SSO
8028	Uhrberg, Markus	POS	NEG	POS	NT	POS	NEG	POS	NT	POS	POS	NEG	POS	NEG	POS	NT	NT	SSP
8023	Vilches, Carlos	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	DEL	SSP
5282	Yu, Neng	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
1466	Yu, Neng	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP SSO
713	Zachary, Andrea	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO

Table 5. KIR Exchange Sample: KDNA #152

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	Consensus	POS [71]	POS [70]	POS [71]	POS [68]	POS + B [70]	POS [70]	POS [69]	POS [68]	NEG [71]	NEG [71]	POS [69]	POS [70]	POS + FULL, DEL [70]	NEG [69]	POS [68]	POS + DEL [67]	
5488	Adams, Sharon	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	DEL	SSP SSO
234	Amador, Alexandra	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
8094	Ameen, Reem	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSO
5462	Arnold, Paula	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSP
8073	Bengtsson, Mats	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8038	Cao, Kai	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSO
8025	Carrington, Martin	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	NT	SSP
1461	Cauwelier, Barbara	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	DEL	SSP
3224	Chen, Dong-Feng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP SSO
3632	Colombe, Beth W.	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP SSO
189	Crowe, Deborah	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP SSO
1108	DeConinck, Martha	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSO
8095	denHollander, Neal	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSO
705	Ellis, Thomas	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
3410	Ellison, Cynthia	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	DEL	SSP
8051	Endres, Robert O.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
2549	Fagoaga, Omar	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
762	Fischer, Gottfried	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	DEL	SSP
1778	Freed, Brian	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	DEL	SSP
8047	Fuessel, Monika	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8076	Gaitonde, Sujata	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	
8026	Gardiner, Clair M.	POS	NEG	POS	NEG	NT	NEG	NT	NT	NEG	NEG	NEG	NEG	NT	POS	POS	POS	SSP
1647	Gautreaux, Michael	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	
124	Gizzarelli, Laila	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	NT	NT	SSP
8022	Hedlund, Anna	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
1694	Hesse, Nicole	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
4985	Hoover, Beverly	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	
5000	Hsu, Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP SSO
2344	Hurley, Hartzman&	POS	POS	POS	POS	B*00201	*00401, *01701	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSP
3261	Iwaki, Yuichi	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
8086	Jie, Pan	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8093	Jindra, Peter	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
8035	Kanangat, Siva	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	
8079	Kashi, Zahra M.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	
4337	Kim, Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8084	Kimball, Pam	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	
8046	Kusnierczyk, Piotr	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSP
8071	Kwok, Janette	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
791	Lacelle, Chantale	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
278	Lee, Jar-How	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO

Table 5. KIR Exchange Sample: KDNA #152

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
8088	Liu, Cong	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8069	Maha, George	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
8067	Marino, Susana R.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP SSO
5142	Marsh, Steven	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8092	Morris, Gerald	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	
8091	Murphey, Cathi	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
733	Mytilineos, Joannis	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP
8083	Nikaein, Afzal	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
3966	Permpikul, Vejbaes	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
4021	Pollack, Marilyn S.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8030	Poulton, Kay	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
8050	Raja, Rajalingam	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
3753	Reed, Elaine F.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP SSO
3798	Reinsmoen, Nancy	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP SSO
8064	Roberts, Chrissy H	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	
8090	Rossi, Angela	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP SSO
8060	Rost, Klein &	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
8039	Scalf,Carolynn	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
4251	Schiller, Jennifer	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP SSO
1426	Senitzer, David	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	POS	NT	NT	
8085	Shalini, Pereira	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SBT
8077	Shanahan, Thomas	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	
702	Spannagl, Michael	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP SSO
2518	Tambur, Anat	POS	*001/ *002/ *003/ *005	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
3808	Thornton, Alycia	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
5451	Tilanus, Marcel G.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
8024	Trowsdale, John	POS	POS	POS	NT	POS	POS	NT	NT	NEG	NEG	POS	POS	WT/DEL	NEG	POS	DEL	
8053	Tyan, Fernandez-V	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	DEL	SSP SSO
8028	Uhrberg, Markus	POS	POS	POS	NT	POS	POS	POS	NT	NEG	NEG	POS	POS	POS	NEG	NT	NT	SSP
8023	Vilches, Carlos	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
1466	Yu, Neng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP SSO
5282	Yu, Neng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	
713	Zachary, Andrea	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO

Table 6. PARTICIPATING CENTERS

Name			City/State	Country	Name			City/State	Country
Adams	Sharon		Bethesda MD		Kwok	Janette	Dr	Hong Kong	
Amador	Alexandra		Miami FL		Lacelle	Chantale	PhD	Dallas TX	
Ameen	Reem	Dr	Jabriya	Kuwait	Lee	Jar-How	Dr	Canoga Park CA	
Arnold	Paula	PhD	Memphis TN		Liu	Cong	PhD	Grand Rapids MI	
Askar	Medhat	MD PhD	Cleveland OH		Maha	George	PhD	Burlington NC	
Bengtsson	Mats	MD	Uppsala	Sweden	Marino	Susana R.		Chicago IL	
Cao	Kai	Dr	Houston TX		Marsh	Steven	Dr	London	England
Carrington	Martin/	Drs	Frederick MD		Morris	Gerald	MD PhD	San Diego CA	
Cauwelier	Barbara	Dr	Brugge	Belgium	Murphey	Cathi		San Antonio TX	
Cecka	J. Michael	PhD	Honolulu HI		Mytilineos	Joannis	MD	Ulm	Germany
Chen	Dong-Feng	PhD	Durham NC		Nelson	Karen		Seattle WA	
Colombe	Beth	PhD	Philadelphia PA		Nikaein	Afzal	Dr	Dallas TX	
Coppage	Myra	Dr	Ottawa ON	Canada	Permpikul	Vejbaesya/	Drs		
Crowe	Deborah	PhD	Nashville TN		Pollack	Marilyn S.	PhD	Oakland CA	
Deconinck	Martha		Stamford CT		Poulton	Kay V.	Dr	Manchester	England
denHollander	Neal	Dr	Toronto ON	Canada	Raja	Rajalingam	Dr	San Francisco CA	
Ellis	Thomas	Dr	Madison WI		Reed	Elaine F.	Dr	Los Angeles CA	
Ellison	Cynthia	PhD	Winnipeg MB	Canada	Reinsmoen	Nancy L.	PhD	Los Angeles CA	
Endres	Robert O.	Dr	Tempe AZ		Roberts	Chrissy H.		London	England
Fagoaga	Omar	Dr	Detroit MI		Rossi	Angela	Dr	Piacenza	Italy
Fischer	Gottfried	Dr	Vienna	Austria	Rost	Klein/	Drs	Martinstried	Germany
Freed	Brian	Dr	Aurora CO		Scalf	Carolynn		Minneapolis MD	
Fuessel	Monika	PhD	Dresden	Germany	Schiller	Jennifer	PhD	Milwaukee WI	
Gaitonde	Sujata	Dr	Chicago IL	Ireland	Senitzer	David	PhD	Duarte CA	
Gardiner	Claire M.	PhD	Dublin	Ireland	Shalini	Pereira		Seattle WA	
Gautreaux	Michael	Dr	Winston-Salem NC		Shanahan	Thomas	PhD	Buffalo NY	
Hedlund	Ann		Saltsjobaden	Sweden	Spannagl	Michael	Dr	Munchen	Germany
Hesse	Nicole		Lich	Germany	Tambur	Anat		Chicago IL	
Hsu	Susan H.	PhD	Philadelphia PA		Thornton	Alycia		Brisbane QLD	Australia
Hartzman	Hurley/	Drs	Rockville MD		Tiercy	Jean-Marie	Dr	Geneva	Switzerland
Iwaki	Yui	Dr	San Bernardino CA		Tilanus	Marcel G.J.	Dr	Maastricht	Germany
Jaatinene	Taina	Dr	Helsinki	Finland	Trowsdale	John	Prof	Cambridge	England
Jie	Pan		Shanghai	China	Tyan	Fernandez-Vina/	Dr	Palo Alto CA	
Jindra	Peter	PhD	Houston TX		Uhrberg	Markus	Dr	Dusseldorf	Germany
Kanangat	Siva	PhD	Chicago IL		Vilches	Carlos	Dr	Madrid	Spain
Kashi	Zahra	Dr	Portland OR		Yu	Neng	MD	Dedham MA	
Kim	Tai-Gyu	Prof	Seoul	S. Korea	Yu	Neng	MD	Worcester MA	
Kimball	Pam	PhD	Richmond VA		Zachary	Andrea	PhD	Baltimore MD	
Kusnierczyk	Piotr	PhD	Wroclaw	Poland					