

# REPORT OF THE 37<sup>th</sup> UCLA International KIR Exchange

## JULY 10, 2015

KIR

145-148

For the 37<sup>th</sup> KIR Exchange, 4 DNA samples (KDNA#145-148) were shipped to 78 participating laboratories. A total of 74 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 37<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. 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 9 of the 16 tested KIR loci (KIR2DL4, 3DL1, 3DL2, 3DL3, 2DS1, 2DS3, 2DS4, 2DP1, 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.

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### KIR Exchange Sample: KDNA # 0145:

The consensus KIR type for this sample from a Hispanic Donor is KIR2DL2-2DL4-3DL1-3DL2-3DL3-2DS2-2DS4FULL&DEL-3DP1FULL. A number of discrepancies were reported for this sample as 1 lab reported 2DL2 as negative, 1 reported 3DS1 as positive, and 3 labs reported 2DL3 as positive instead of negative. The genotype in this sample is observed in Hispanics at a frequency of 2.3% (1). It is also observed among Cook Island natives (8.1%) and Amazonian Amerindians (10%) (1, 2).

### KIR Exchange Sample: KDNA # 0146:

The consensus KIR type for this sample from a Black donor is KIR2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS2-2DS4DEL-2DS5-2DP1-3DP1DEL. There were only 2 discrepancies reported for this sample, in which 1 lab reported 2DS2 as negative and 1 lab reported 2DS5 as negative. The genotype in this sample is observed in African Americans at a frequency of 1.7% (3, 4). It is absent in Northeast Asian and Mexican populations.

### KIR Exchange Sample: KDNA # 0147:

This sample from a Hispanic donor was not graded as many labs were unable to report results due to internal control failures. We apologize for any inconvenience caused. Despite the issues with this sample, a number of labs (n=36), were still able to report results. The KIR type reported by these labs was KIR2DL1-2DL3-2DL4-2DL5-3DL2-3DL3-3DS1-2DS1-2DS3-2DS5-2DP1-3DP1DEL.

### KIR Exchange Sample: KDNA # 0148:

The consensus KIR type for this sample from a Korean donor is KIR2DL1-2DL3-2DL4-2DL5A-3DL2-3DL3-3DS1-2DS1-2DS5-2DP1-3DP1DEL. There was only 1 discrepancy reported for this sample, in which 1 lab reported 3DS1 as negative. The genotype in this sample is observed in Korean (0.6%) and Han Chinese (1%) populations (5, 6). It is also observed in Asian Indians, with the highest frequency occurring among the Kanikar (5.5%).

## References:

1. Ashouri E, Farjadian S, Reed EF, et al. KIR gene content diversity in four Iranian populations. *Immunogenetics*. 2009;61:483-492.
2. Ewerton PD, Leite Mde M, Magalhaes M, Sena L, Melo dos Santos EJ. Amazonian Amerindians exhibit high variability of KIR profiles. *Immunogenetics*. 2007;59:625-630.
3. 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.
4. 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.
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
6. Jiang, K., F.M. Zhu, Q.F. Lv, and L.X. Yan. 2005. Distribution of killer cell immunoglobulin-like receptor genes in the Chinese Han population. *Tissue Antigens* 65:556-563.

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Table 1. Summary of the 37 <sup>th</sup> KIR Exchange (KDNA #145-148)																			
KIR Ex.	DNA	Reporting Labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	
#37	145	74	NEG[74]	POS[72] *001/ *002/ *003/ *005[1] <i>NEG[1]</i>	NEG[71] <i>POS[3]</i>	POS[72] NT[2]	NEG[74]	POS[72] *001, *01502[1] *001[1]	POS[73] NT[1]	POS[72] NT[2]	NEG[73] <i>POS[1]</i>	NEG[74]	POS[74]	NEG[74]	POS[56] FULL, DEL [17] WT, DEL [1]	NEG[74]	NEG[72] NT[2]	POS[54] FULL[15] FULL,DEL[1] 3DP1V[1] NT[3]	
	146	74	POS[74]	POS[73] *001/ *002/ *003/ *005[1]	POS[74]	POS[72] NT[2]	POS[56] B[16] B*004/ *008/ *013/ *014/ *015[1] B*004[1]	POS[72] *001, *005[1] *001[1]	POS[73] NT[1]	POS[72] NT[2]	NEG[74]	NEG[74]	POS[73] <i>NEG[1]</i>	NEG[74]	POS[47] DEL[27]	POS[73] <i>NEG[1]</i>	POS[72] <i>NT[2]</i>	POS[52] DEL[19] NT[3]	
	147	71	POS[35] NEG[1] NT[35]	NEG[35] NT[36]	POS[35] NEG[1] NT[35]	POS[35] NT[33]	POS[32] NEG[1] NT[38]	NEG[35] NT[36]	POS[35] NT[36]	POS[35] NT[36]	POS[35] NT[36]	POS[35] NT[36]	POS[36] NT[35]	NEG[35] NT[36]	POS[35] NT[36]	NEG[36] NT[35]	POS[35] NT[36]	POS[35] NT[36]	POS[27] DEL[7] NT[37]
	148	74	POS[74]	NEG[74]	POS[74]	POS[72] NT[2]	POS[56] A [15] A*00101[1] A*001/008/0 13/014/015[ 1] NT[1]	NEG[74]	POS[73] NT[1]	POS[72] NT[2]	POS[73] <i>NEG[1]</i>	POS[72] *002[1] *0020101- 008[1]	NEG[74]	NEG[74]	NEG[74]	POS[74]	POS[72] NT[2]	POS[53] DEL[18] 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  
 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 #145**

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	Consensus	NEG [74]	POS [73]	NEG [71]	POS [72]	NEG [74]	POS [74]	POS [73]	POS [72]	NEG [73]	NEG [74]	POS [74]	NEG [74]	POS+FULL, DEL [74]	NEG [74]	NEG [72]	POS+FULL [71]	
5488	Adams, Sharon	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	FULL	SSP SSO
234	Amador, Alexandra	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	
8094	Ameen, Reem	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
5462	Arnold, Paula	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
16	Askar, Medhat Z.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	FULL	
8073	Bengtsson, Mats	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8038	Cao, Kai	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	POS	SSO
8025	Carrington, Martin &	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	NT	SSP
1461	Cauwelier, Barbara	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	FULL	SSP
3224	Chen, Dong-Feng	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP SSO
3632	Colombe, Beth W.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	FULL	SSP
189	Crowe, Deborah	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
1108	DeConinck, Martha	NEG	*001/ *002/ *003/ *005	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	POS	
8095	denHollander, Neal	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
705	Ellis, Thomas	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
3410	Ellison, Cynthia	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8051	Endres, Robert O.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
2549	Fagoaga, Omar	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
762	Fischer, Gottfried	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
1778	Freed, Brian	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	FULL	SSP
8047	Fuessel, Monika	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8076	Gaitonde, Sujata	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8026	Gardiner, Clair M.	NEG	NEG	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
1647	Gautreaux, Michael	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
124	Gizzarelli, Laila	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NT	NT	SSP
8022	Hedlund, Anna	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	FULL	SSP
1694	Hesse, Nicole	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
4985	Hoover, Beverly	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	
5000	Hsu, Susan H.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP SSO
2344	Hurley, Hartzman&	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	POS	SSP SSO SBT
3261	Iwaki, Yuichi	NEG	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8086	Jie, Pan	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8093	Jindra, Peter	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8035	Kanangat, Siva	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8079	Kashi, Zahra M.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
4337	Kim, Tai-Gyu	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8084	Kimball, Pam	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8046	Kusnierczyk, Piotr	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	3DP1V	SSP
8071	Kwok, Janette	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO

**Table 2. KIR Exchange Sample: KDNA #145**

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	Consensus	NEG [74]	POS [73]	NEG [71]	POS [72]	NEG [74]	POS [74]	POS [73]	POS [72]	NEG [73]	NEG [74]	POS [74]	NEG [74]	POS+FULL, DEL [74]	NEG [74]	NEG [72]	POS+FULL [71]	
791	Lacelle, Chantale	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	FULL	SSP
278	Lee, Jar-How	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8088	Liu, Cong	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8069	Maha, George	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	FULL	SSP
8067	Marino, Susana R.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP SSO
5142	Marsh, Steven	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001,*003/ *004/*006/*007	NEG	NEG	*001/ *002/ *004	SSP
8092	Morris, Gerald	NEG	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	
8091	Murphey, Cathi	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	
733	Mytilineos, Joannis	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	FULL, DEL	SSP
8083	Nikaein, Afzal	NEG	POS	NEG	POS	NEG	*001	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	*001	SSP
3966	Permpikul, Vejbaesya	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
4021	Pollack, Marilyn S.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8030	Poulton, Kay	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8050	Raja, Rajalingam	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	FULL	SSP
3753	Reed, Elaine F.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP SSO
3798	Reinsmoen, Nancy L.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8064	Roberts, Chrissy H.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001, *003/*004/*006/ *007/*008/*009	NEG	NEG	POS	
8090	Rossi, Angela	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP SSO
8060	Rost, Klein &	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8039	Scaif,Carolynn	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
4251	Schiller, Jennifer	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
1426	Senitzer, David	NEG	POS	NEG	POS	NEG	*001, *01502	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	*001/ *002/ *004	SSP
8085	Shalini, Pereira	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SBT
8077	Shanahan, Thomas C	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	
702	Spannagl, Michael	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
2518	Tambur, Anat	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
3808	Thornton, Alycia	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	FULL	SSP
5451	Tilanus, Marcel G.J.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8024	Trowsdale, John	NEG	POS	NEG	NT	NEG	POS	NT	NT	NEG	NEG	POS	NEG	WT, DEL	NEG	NEG	FULL	
8053	Tyan, Fernandez-Vina	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP SSO
8028	Uhrberg, Markus	NEG	POS	NEG	NT	NEG	POS	POS	NT	NEG	NEG	POS	NEG	POS	NEG	NT	NT	SSP
8023	Vilches, Carlos	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NEG	FULL	SSP
5282	Yu, Neng	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
1466	Yu, Neng	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
713	Zachary, Andrea	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP SSO

**Table 3. KIR Exchange Sample: KDNA #146**

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	Consensus	POS [74]	POS [74]	POS [74]	POS [72]	POS + B [74]	POS [74]	POS [73]	POS [72]	NEG [74]	NEG [74]	POS [73]	NEG [74]	POS+DEL [74]	POS [73]	POS [72]	POS+DEL [71]	
5488	Adams, Sharon	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	SSP SSO
234	Amador, Alexandra	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	
8094	Ameen, Reem	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
5462	Arnold, Paula	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	POS	SSP
16	Askar, Medhat Z.	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	
8073	Bengtsson, Mats	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
8038	Cao, Kai	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	POS	SSO
8025	Carrington, Martin &	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	NT	SSP
1461	Cauwelier, Barbara	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	SSP
3224	Chen, Dong-Feng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP SSO
3632	Colombe, Beth W.	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	SSP
189	Crowe, Deborah	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
1108	DeConinck, Martha	POS	*001/ *002/ *003/ *005	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	POS	
8095	denHollander, Neal	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
705	Ellis, Thomas	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
3410	Ellison, Cynthia	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	SSP
8051	Endres, Robert O.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
2549	Fagoaga, Omar	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
762	Fischer, Gottfried	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	SSP
1778	Freed, Brian	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	SSP
8047	Fuessel, Monika	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
8076	Gaitonde, Sujata	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
8026	Gardiner, Clair M.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
1647	Gautreaux, Michael	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
124	Gizzarelli, Laila	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	NT	NT	SSP
8022	Hedlund, Anna	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	SSP
1694	Hesse, Nicole	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
4985	Hoover, Beverly	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	
5000	Hsu, Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP SSO
2344	Hurley, Hartzman&	POS	POS	POS	POS	B*004	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	POS	SSP SSO SBT
3261	Iwaki, Yuichi	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
8086	Jie, Pan	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
8093	Jindra, Peter	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
8035	Kanangat, Siva	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
8079	Kashi, Zahra M.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
4337	Kim, Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
8084	Kimball, Pam	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
8046	Kusnierczyk, Piotr	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	POS	SSP
8071	Kwok, Janette	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO

**Table 3. KIR Exchange Sample: KDNA #146**

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	Consensus	POS [74]	POS [74]	POS [74]	POS [72]	POS + B [74]	POS [74]	POS [73]	POS [72]	NEG [74]	NEG [74]	POS [73]	NEG [74]	POS+DEL [74]	POS [73]	POS [72]	POS+DEL [71]	
791	Lacelle, Chantale	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	SSP
278	Lee, Jar-How	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
8088	Liu, Cong	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
8069	Maha, George	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	SSP
8067	Marino, Susana R.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP SSO
5142	Marsh, Steven	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007	POS	POS	*003	SSP
8092	Morris, Gerald	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	
8091	Murphey, Cathi	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	
733	Mytilineos, Joannis	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	SSP
8083	Nikaein, Afzal	POS	POS	POS	POS	B	*001	POS	POS	NEG	NEG	POS	NEG	*003	POS	POS	*003	SSP
3966	Permpikul, Vejbaesya	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
4021	Pollack, Marilyn S.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
8030	Poulton, Kay	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
8050	Raja, Rajalingam	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	SSP
3753	Reed, Elaine F.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP SSO
3798	Reinsmoen, Nancy L.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
8064	Roberts, Chrissy H.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007/ *008/ *009	POS	POS	POS	
8090	Rossi, Angela	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP SSO
8060	Rost, Klein &	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
8039	Scalf, Carolyn	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
4251	Schiller, Jennifer	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
1426	Senitzer, David	POS	POS	POS	POS	B*004/ *008/ *013/ *014/ *015	*001, *005	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	*003	SSP
8085	Shalini, Pereira	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SBT
8077	Shanahan, Thomas C	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	
702	Spannagl, Michael	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
2518	Tambur, Anat	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
3808	Thornton, Alycia	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	SSP
5451	Tilanus, Marcel G.J.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
8024	Trowsdale, John	POS	POS	POS	NT	POS	POS	NT	NT	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	
8053	Tyan, Fernandez-Vina	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	SSP SSO
8028	Uhrberg, Markus	POS	POS	POS	NT	POS	POS	POS	NT	NEG	NEG	POS	NEG	POS	POS	NT	NT	SSP
8023	Vilches, Carlos	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	DEL	SSP
5282	Yu, Neng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
1466	Yu, Neng	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	POS	SSP
713	Zachary, Andrea	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP SSO

**Table 3. KIR Exchange Sample: KDNA #147**

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	Not graded																	
5488	Adams, Sharon	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO
234	Amador, Alexandra	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
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
16	Askar, Medhat Z.	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
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	NEG	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	SSO
1108	DeConinck, Martha	NEG	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	
8095	denHollander, Nea	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	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
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	SSP
8026	Gardiner, Clair M.	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
1647	Gautreaux, Michael	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
124	Gizzarelli, Laila	POS	NEG	POS	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 SSO SBT
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	NEG	POS	NT	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8079	Kashi, Zahra M.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
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	SSP
8046	Kusnierczyk, Piotr	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
8071	Kwok, Janette	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	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	NEG	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
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	*003	SSP
8092	Morris, Gerald	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	



**Table 3. KIR Exchange Sample: KDNA #147**

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	Not graded																	
8091	Murphey, Cathi	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
733	Mytilineos, Joannis	POS	NT	POS	POS	NT	NT	POS	POS	POS	POS	NT	NT	NEG	NT	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	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
4021	Pollack, Marilyn S.	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
8030	Poulton, Kay	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSO
8050	Raja, Rajalingam	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
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	SSO
8064	Roberts, Chrissy H	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
8090	Rossi, Angela	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	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	SSO
1426	Senitzer, David	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	*003	SSP
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	SSO
2518	Tambur, Anat	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	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..	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	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
5282	Yu, Neng	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP
1466	Yu, Neng	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	POS	POS	SSP
713	Zachary, Andrea	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO

**Table 3. KIR Exchange Sample: KDNA #148**

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	Consensus	POS [74]	NEG [74]	POS [74]	POS [72]	POS+A [73]	NEG [74]	POS [73]	POS [72]	POS [73]	POS [74]	NEG [74]	NEG [74]	NEG [74]	POS [74]	POS [72]	POS+DEL [71]	
5488	Adams, Sharon	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	DEL	SSP SSO
234	Amador, Alexandra	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	
8094	Ameen, Reem	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
5462	Arnold, Paula	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
16	Askar, Medhat Z.	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	DEL	
8073	Bengtsson, Mats	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
8038	Cao, Kai	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
8025	Carrington, Martin	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NT	SSP
1461	Cauwelier, Barbara	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	DEL	SSP
3224	Chen, Dong-Feng	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP SSO
3632	Colombe, Beth W.	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	DEL	SSP
189	Crowe, Deborah	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
1108	DeConinck, Martha	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	
8095	denHollander, Nea	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
705	Ellis, Thomas	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
3410	Ellison, Cynthia	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	DEL	SSP
8051	Endres, Robert O.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
2549	Fagoaga, Omar	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
762	Fischer, Gottfried	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	DEL	SSP
1778	Freed, Brian	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	DEL	SSP
8047	Fuessel, Monika	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
8076	Gaitonde , Sujata	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
8026	Gardiner, Clair M.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
1647	Gautreaux, Michae	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
124	Gizzarelli, Laila	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	NT	NT	SSP
8022	Hedlund, Anna	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	DEL	SSP
1694	Hesse, Nicole	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
4985	Hoover, Beverly	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	
5000	Hsu, Susan H.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP SSO
2344	Hurley, Hartzman&	POS	NEG	POS	POS	A*00101	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP SSO SBT
3261	Iwaki, Yuichi	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
8086	Jie, Pan	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
8093	Jindra, Peter	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
8035	Kanangat, Siva	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
8079	Kashi, Zahra M.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
4337	Kim, Tai-Gyu	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
8084	Kimball, Pam	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
8046	Kusnierczyk, Piotr	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
8071	Kwok, Janette	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
791	Lacelle, Chantale	POS	NEG	POS	POS	A	NEG	POS	POS	NEG	POS	NEG	NEG	NEG	POS	POS	DEL	SSP
278	Lee, Jar-How	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
8088	Liu, Cong	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP

**Table 3. KIR Exchange Sample: KDNA #148**

CTR	Investigator	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	Consensus	POS [74]	NEG [74]	POS [74]	POS [72]	POS+A [73]	NEG [74]	POS [73]	POS [72]	POS [73]	POS [74]	NEG [74]	NEG [74]	NEG [74]	POS [74]	POS [72]	POS+DEL [71]	
8069	Maha, George	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	DEL	SSP
8067	Marino, Susana R.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP SSO
5142	Marsh, Steven	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
8092	Morris, Gerald	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	
8091	Murphey, Cathi	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	
733	Mytilineos, Joannis	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	DEL	SSP
8083	Nikaein, Afzal	POS	NEG	POS	POS	A	NEG	POS	POS	POS	*002	NEG	NEG	NEG	POS	POS	POS	SSP
3966	Permpikul, Vejbaes	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
4021	Pollack, Marilyn S.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
8030	Poulton, Kay	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
8050	Raja, Rajalingam	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	DEL	SSP
3753	Reed, Elaine F.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP SSO
3798	Reinsmoen, Nancy	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
8064	Roberts, Chrissy H	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	
8090	Rossi, Angela	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP SSO
8060	Rost, Klein &	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
8039	Scalf, Carolyn	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
4251	Schiller, Jennifer	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
1426	Senitzer, David	POS	NEG	POS	POS	A*001/ *008/ *013/ *014/ *015	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
8085	Shalini, Pereira	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SBT
8077	Shanahan, Thomas	POS	NEG	POS	POS	NT	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	
702	Spannagl, Michael	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
2518	Tambur, Anat	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
3808	Thornton, Alycia	POS	NEG	POS	POS	A	NEG	POS	POS	POS	*0020101- *008	NEG	NEG	NEG	POS	POS	DEL	SSP
5451	Tilanus, Marcel G.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSO
8024	Trowsdale, John	POS	NEG	POS	NT	POS	NEG	NT	NT	POS	POS	NEG	NEG	NEG	POS	POS	DEL	
8053	Tyan, Fernandez-V	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	DEL	SSP SSO
8028	Uhrberg, Markus	POS	NEG	POS	NT	POS	NEG	POS	NT	POS	POS	NEG	NEG	NEG	POS	NT	NT	SSP
8023	Vilches, Carlos	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	DEL	SSP
1466	Yu, Neng	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
5282	Yu, Neng	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
713	Zachary, Andrea	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP SSO

## PARTICIPATING CENTERS

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Askar	Medhat	MD PhD	Cleveland OH			Maha	George	PhD	Burlington NC	
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