

REPORT OF THE 31ST UCLA INTERNATIONAL KIR EXCHANGE

AUGUST 7, 2013

KIR	121-124
-----	---------

Dear Colleagues:

For the 31st KIR Exchange, 4 DNA samples (KDNA#121-124) were shipped to participating laboratories on May 8, 2013. A total of 68 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 31st 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 KIR2DL3, 2DL5, 3DL1, 2DS1, 2DS3, 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 8 of the 16 tested KIR loci (KIR2DL2, 2DL4, 2DL5, 3DL1, 3DL2, 3DL3, 2DS2, and 2DS3). 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. Participants are encouraged 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 # 0121:

The consensus KIR type for this sample is: 2DL2-2DL4-2DL5A-3DL1-3DL2-3DL3-3DS1-2DS1-2DS2-2DS4DEL-2DS5-3DP1FULL. One laboratory reported this sample as positive for 2DL1, 1 reported it as negative for 3DP1, and 1 other reported it as negative for 3DS1 and 2DS5. Kusnierczyk observed conflicting results for 2DL1 upon typing this sample by 3 different SSP typing systems. By Senitzer's Multiplex PCR-SSP, Kusnierczyk typed this sample as positive for KIR2DL1. However, it was typed as negative for 2DL1 by Olerup PCR-SSP and with PCR-SSP using primers of Vilches et al (1). Kusnierczyk states the results may suggest a possible deletion or recombination.

This genotype has been observed most often among Native American Chiriguano, 3.7%, and Wichis, 4.0% (2, 3) populations.

KIR Exchange Sample: KDNA # 0122:

The consensus KIR type for this Hispanic sample is: 2DL1-2DL2-2DL4-2DL5A&B-3DL1-3DL2-3DL3-3DS1-2DS1-2DS2-2DS3-2DS4FULL-2DP1-3DP1DEL. One laboratory reported this sample as negative for 2DS1 and 2DS4. A weak band for KIR2DL3*010 was observed by 1 laboratory, and as such, noted that 2DL3*010 could not be excluded.

This genotype has been observed exclusively in Iranian, 1.2%, and Asian Indian, 1.7%, populations (4, 5).

KIR Exchange Sample: KDNA # 0123:

The consensus KIR type for this Hispanic sample is: 2DL1-2DL2-2DL3-2DL4-2DL5A-3DL2-3DL3-3DS1-2DS1-2DS2-2DS3-2DS5-2DP1-3DP1FULL&DEL. Three laboratories reported this sample as negative for 2DL3 and 1 laboratory reported it as positive for 2DS4.

This genotype is observed most frequently in Asian Indian populations, with the highest frequency occurring among the Pakistani, 9.0%, and Paravar, 6.5%, (5, 6). It has not been observed in African and Mexican populations.

KIR Exchange Sample: KDNA # 0124:

The consensus KIR type for this Caucasian sample is 2DL1-2DL2-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS2-2DS3-2DS4DEL-2DP1-3DP1FULL&DEL. One laboratory reported this sample as positive for 2DL3, 1 reported it as positive for 3DS1, and 1 other reported it as negative for 2DP1. As with sample KDNA122, 1 laboratory noted that the presence of 2DL3*010 could not be excluded.

This genotype is observed most commonly in Asian Indian populations, with the highest frequency occurring among the Kanikar, 11.4% (5, 6). It is absent in Native American, Mexican, and Northeast Asian populations.

References

1. Vilches C, Castano J, Gomez-Lozano N, and Estefan1´a E. Facilitation of KIR genotyping by a PCR-SSP method that amplifies short DNA fragments. *Tissue Antigens* 2007;70:415–422.
2. Flores AC, Marcos CY, Paladino N, et al. KIR genes polymorphism in Argentinean Caucasoid and Amerindian populations. *Tissue Antigens* 2007;69:568-576.
3. Ewerton PD, Leite Mde M, Magalhaes M, et al. Amazonian Amerindians exhibit high variability of KIR profiles. *Immunogenetics* 2007;59:625-630.
4. Ashouri E, Farjadian S, Reed EF, et al. KIR gene content diversity in four Iranian populations. *Immunogenetics* 2009;61:483-492.
5. Rajalingam R, Du Z, Meenagh A, et al. 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.
6. Kulkarni S, Single RM, Martin MP, et al. Comparison of the rapidly evolving KIR locus in Parsis and natives of India. *Immunogenetics* 2008;60:121-129.

NEXT MAILING DATE: February 5, 2014
Arlene Locke, Elaine F. Reed, and Raja Rajalingam

Table 1. Summary of the 31st KIR Exchange (KDNA#121-124)

KIR Ex.	DNA	# reporting labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#31	#0121	68	NEG <i>POS [1]</i>	POS	NEG	POS NT [2]	POS A [21] A*00101 [1] A*0010101- *01202 [1] A*001- *012 [1]	POS *004 [2] *00401 [1]	POS NT [1]	POS NT [2]	POS <i>NEG [1]</i>	POS *002 [2] *002- *008 [1]	POS	NEG	POS DEL [30] FULL, DEL [1]	POS <i>NEG [1]</i>	NEG NT [2]	POS FULL [19] <i>NEG [1]</i> NT [3]
	#0122	68	POS	POS	NEG	POS NT [2]	POS A,B [17] A*00501, B*00201 [1] A*0010101- *01202, B*0020101- *00202/ *004- *000601/ *00603/ *01303 [1]	POS *001 [2] *002 [1]	POS NT [1]	POS NT [2]	POS	POS *002 [2] *002- *008 [1] <i>NEG [1]</i>	POS	POS *00103- *00201	POS FULL [30] <i>NEG [1]</i>	NEG	POS NT [2]	POS DEL [21] FULL, DEL [1] NT [3]
	#0123	68	POS	POS	POS *010 [1] <i>NEG [3]</i>	POS NT [2]	POS A [23] A*00101, A*00501 [1] A*0010101- *01202 [1] A*001- *012 [1]	NEG	POS NT [1]	POS NT [2]	POS	POS *002 [1] *002- *008 [1]	POS	POS	NEG <i>FULL [1]</i>	POS	POS NT [2]	POS FULL, DEL [15] DEL [2] FULL [1] NT [3]
	#0124	68	POS	POS	NEG <i>POS [1]</i>	POS NT [2]	POS B [21] B*00201 [1] B*0020101- *00202/ *004- *00601/ *00603- *01303 [2] B*002- *013 [1] A [1]	POS *001 [2] *00101, *007 [1]	POS NT [1]	POS NT [2]	NEG <i>POS [1]</i>	NEG	POS	POS *00103 [1]	POS DEL [33]	NEG	POS NT [2] <i>NEG [1]</i>	POS FULL, DEL [15] FULL [3] NT [3]

KEY for Table 1

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

KEY for Tables 2-5

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

Table 2. KIR Exchange Sample: KDNA #121

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
713	Zachary,Andrea	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	FULL, DEL	POS	NEG	FULL	SSP
1466	Yu,Neng	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
5282	Yu,Neng	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	FULL	SSP
8023	Viiches,Carlos	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	FULL	SSP
3775	Vidan-Jeras,Blan	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
8028	Uhrberg,Markus	NEG	POS	NEG	NT	POS	POS	POS	NT	POS	POS	POS	NEG	POS	POS	NT	NT	SSP
8053	Tyan/Fernandez-Vin	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003-*007	POS	NEG	*001/ *002/ *004	SSP
5462	Turner,E.V.	NEG	POS	NEG	POS	A	*004	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007/ *012/ *013	POS	NEG	*001-*010	SSP
8024	Trowsdale,John	NEG	POS	NEG	NT	POS	POS	NT	NT	POS	POS	POS	NEG	DEL	POS	NEG	FULL	SSP
4021	Trachtenberg,Eliz	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
5451	Tilanus,Marcel G.J	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
747	Tiercy,Jean-Marie	NEG	POS	NEG	POS	A*0010101- *01202	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	NEG	SSP
769	Tavoularis,Sofia	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	POS	SSOP,SSP
2518	Tambur,Anat	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	NEG	NEG	POS	SSOP
1108	Sutherland,Leslie	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	POS	SSOP
702	Spannagl,Michael	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	POS	SSO,SSP
1426	Senitzer,David	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	POS	MULTIPLEX-SSP
3410	Schroeder,M.L.	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	POS	SSP
4251	Schiller,Jennifer	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
8060	Rost&Klein	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
8064	Roberts,Chrissy	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
3753	Reed&Rajalingam	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
8030	Poulton,Kay V.	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
3966	Permpikul&Vejba	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
8083	Nikaein,Afzal	NEG	POS	NEG	POS	A	POS	POS	POS	POS	*002	POS	NEG	POS	POS	NEG	POS	SSP
5231	Nelson,Karen	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSO
733	Mytilineos,Joanni	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
8073	Mats,Bengtsson	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
5142	Marsh,Steven	NEG	POS	NEG	POS	POS	*00401	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007/ *009, -	POS	NEG	*001/ *002/ *004, -	SSP
8067	Marino,Susan R.	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP,SSOP
8069	Maha,George	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	FULL	SSP
278	Lee,Jar-How	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	DEL	POS	NEG	FULL	SSP
8071	Kwok,Janette	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
8046	Kusnierczyk,Piot	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	POS	MULTIPLEX SSP, SSP
4337	Kim,Tai-Gyu	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
8079	Kashi,Zahra	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP,SSOP
8035	Kanangat,Siva	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP,SSOP
8076	Jaramillo&Gaitonde	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	POS	SSP
794	Jaatinen,Taina	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP

Table 2. KIR Exchange Sample: KDNA #121

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
3261	Iwaki, Yui	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
2344	Hurley&Hartzman	NEG	POS	NEG	POS	A*00101	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	POS	SSP, SSOP, SBT-2DL5
5000	Hsu, Susan H.	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP, SSP
3808	Hogan, Patrick	NEG	POS	NEG	POS	A	POS	POS	POS	POS	*002- *008	POS	NEG	DEL	POS	NEG	FULL	SSP
1461	Hidajat, M.	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	FULL	SSP
1694	Hesse&Kissel	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
8022	Hedlund, Anna	NEG	POS	NEG	POS	A	*004	POS	POS	POS	*002	POS	NEG	*003	POS	NEG	*001-*002	SSP
4985	Graff, Ralph J.	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
8040	Gladman/Abji/Pellet	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	POS	SSP
8047	Fuessel, Monika	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP
762	Fischer, Gottfried	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	POS	SSP
2549	Fagoaga, Omar	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	FULL	SSP
8051	Endres, Robert	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	FULL	SSP
705	Ellis, Thomas	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
8031	Dinauer, David	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	FULL	SSP
124	De Santis, Dianne	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NT	NT	MULTIPLEX SSP
8039	Davidson, Maureen	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
189	Crowe, Deborah	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP, SSOP
8050	Cook, Daniel J.	NEG	POS	NEG	POS	A*001-*012	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	FULL	SSP
3632	Colombe, Beth	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	FULL	SSP
3224	Chen, Dong-Feng	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSP, SSOP
774	Cecka, J Michael	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSO
8025	Carrington&Marti	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	NT	SSP
8038	Cao, Kai	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	POS	SSOP
16	Askar, Medhat	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	FULL	SSOP, SSP
234	Amador, Alexandra	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	SSOP
5488	Adams, Sharon	NEG	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NEG	FULL	SSP

Table 3. KIR Exchange Sample: KDNA #122

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	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
234	Amador, Alexandra	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
16	Askar, Medhat	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSOP, SSP
8038	Cao, Kai	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	POS	SSOP
8025	Carrington&Marti	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	NT	SSP
774	Cecka, J Michael	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSO
3224	Chen, Dong-Feng	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP, SSOP
3632	Colombe, Beth	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
8050	Cook, Daniel J.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
189	Crowe, Deborah	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP, SSOP
8039	Davidson, Maureen	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
124	De Santis, Dianne	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NT	NT	MULTIPLEX SSP
8031	Dinauer, David	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
705	Ellis, Thomas	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
8051	Endres, Robert	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
2549	Fagoaga, Omar	POS	POS	?	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
762	Fischer, Gottfried	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
8047	Fuessel, Monika	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8026	Gardiner, Clair M.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8040	Gladman/Abji/Pellet	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8022	Hedlund, Anna	POS	POS	NEG	POS	A, B	*001	POS	POS	POS	*002	POS	POS	*001	NEG	POS	*003-*005	SSP
1694	Hesse&Kissel	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
1461	Hidajat, M.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
3808	Hogan, Patrick	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	*002-*008	POS	POS	FULL	NEG	POS	DEL	SSP
5000	Hsu, Susan H.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP, SSP
2344	Hurley&Hartzman	POS	POS	NEG	POS	A*00501, B*00201	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	POS	SSP, SSOP, SBT-2DL5
3261	Iwaki, Yui	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
794	Jaatinen, Taina	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8076	Jaramillo&Gaitonde	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	POS	SSP
8035	Kanangat, Siva	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP, SSOP
8079	Kashi, Zahra	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP, SSOP
4337	Kim, Tai-Gyu	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8046	Kusnierczyk, Piot	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	POS	MULTIPLEX SSP, SSP
8071	Kwok, Janette	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
791	Lacelle, Chantale	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
278	Lee, Jar-How	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
8069	Maha, George	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
8067	Marino, Susan R.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP, SSOP
5142	Marsh, Steven	POS	POS	NEG	POS	POS	*002	POS	POS	POS	POS	POS	*00103, *00201	*001, -	NEG	POS	*003, -	SSP
8073	Mats, Bengtsson	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
733	Mytilineos, Joanni	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
5231	Nelson, Karen	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSO
8083	Nikaein, Afzal	POS	POS	NEG	POS	A, B	*001	POS	POS	POS	*002	POS	POS	*001	NEG	POS	POS	SSP
3966	Permpikul&Vejba	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP

Table 3. KIR Exchange Sample: KDNA #122

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8030	Poulton,Kay V.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
3753	Reed&Rajalingam	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
8064	Roberts,Chrissy	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8060	Rost&Klein	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
4251	Schiller,Jennifer	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
3410	Schroeder,M.L.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
1426	Senitzer,David	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	POS	MULTIPLEX SSP
702	Spannagl,Michael	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSO,SSP
1108	Sutherland,Leslie	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	POS	SSOP
2518	Tambur,Anat	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
769	Tavoularis,Sofia	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	FULL, DEL	SSOP,SSP
747	Tiercy,Jean-Marie	POS	POS	NEG	POS	A*0010101- *01202, B*0020101- *00202/ *004- *00601/ *00603- *01303	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
5451	Tilanus,Marcel G.J	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8024	Trowsdale,John	POS	POS	NEG	NT	POS	POS	NT	NT	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
5462	Turner,E.V.	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	NEG	POS	POS	NEG	NEG	POS	POS	SSP
8053	Tyan/Fernandez-Vin	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	NEG	POS	*003	SSP
8028	Uhrberg,Markus	POS	POS	NEG	NT	POS	POS	POS	NT	POS	POS	POS	POS	POS	NEG	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
1466	Yu,Neng	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
5282	Yu,Neng	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP
713	Zachary,Andrea	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	NEG	POS	DEL	SSP

Table 4. KIR Exchange Sample: KDNA #123

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	POS	NEG	POS	POS	POS	SSP
234	Amador,Alexandra	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
16	Askar,Medhat	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	SSOP,SSP
8038	Cao,Kai	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
8025	Carrington&Marti	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NT	SSP
774	Cecka,J Michael	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO
3224	Chen,Dong-Feng	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP,SSOP
3632	Colombe,Beth	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	SSP
8050	Cook,Daniel J.	POS	POS	POS	POS	A*001-*012	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
189	Crowe,Deborah	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	SSP,SSOP
8039	Davidson,Maureen	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
124	De Santis,Dianne	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NT	NT	MULTIPLEX SSP
8031	Dinauer,David	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	SSP
705	Ellis,Thomas	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
8051	Endres,Robert	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	SSP
2549	Fagoaga,Omar	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL	SSP
762	Fischer,Gottfried	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8047	Fuessel,Monika	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8026	Gardiner,Clair M.	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8040	Gladman/Abji/Pellet	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
4985	Graff,Ralph J.	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8022	Hedlund, Anna	POS	POS	NEG	POS	A	NEG	POS	POS	POS	*002	POS	POS	NEG	POS	POS	*003-*005	SSP
1694	Hesse&Kissel	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
1461	Hidajat,M.	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
3808	Hogan,Patrick	POS	POS	POS	POS	A	NEG	POS	POS	POS	*002- *008	POS	POS	NEG	POS	POS	FULL, DEL	SSP
5000	Hsu,Susan H.	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP,SSP
2344	Hurley&Hartzman	POS	POS	POS	POS	A*00101, A*00501	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP, SSOP, SBT- 2DL5
3261	Iwaki,Yui	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
794	Jaatinen,Taina	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8076	Jaramillo&Gaitonde	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8035	Kanangat,Siva	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP,SSOP
8079	Kashi,Zahra	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP,SSOP
4337	Kim,Tai-Gyu	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8046	Kusnierczyk,Piot	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	MULTIPLEX SSP, SSP
8071	Kwok,Janette	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
791	Lacelle,Chantale	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	SSP
278	Lee,Jar-How	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
8069	Maha,George	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	SSP
8067	Marino,Susan R.	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP,SSOP
5142	Marsh,Steven	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*001/ *002/ *004, *003	SSP
8073	Mats,Bengtsson	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
733	Mytilineos,Joanni	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP

Table 4. KIR Exchange Sample: KDNA #123

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5231	Nelson,Karen	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO
8083	Nikaein,Afzal	POS	POS	NEG	POS	A	NEG	POS	POS	POS	*002	POS	POS	NEG	POS	POS	POS	SSP
3966	Permpikul&Vejba	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8030	Poulton,Kay V.	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
3753	Reed&Rajalingam	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
8064	Roberts,Chrissy	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	WGA-SSP
8060	Rost&Klein	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
4251	Schiller,Jennifer	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
3410	Schroeder,M.L.	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
1426	Senitzer,David	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	MULTIPLEX SSP
702	Spannagl,Michael	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO,SSP
1108	Sutherland,Leslie	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
2518	Tambur,Anat	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
769	Tavoularis,Sofia	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	SSOP,SSP
747	Tiercy,Jean-Marie	POS	POS	*010	POS	A*0010101- *01202	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
5451	Tilanus,Marcel G.J	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8024	Trowsdale,John	POS	POS	POS	NT	POS	NEG	NT	NT	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	SSP
5462	Turner,E.V.	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8053	Tyan/Fernandez-Vin	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*001/ *002/ *004, *003	SSP
8028	Uhrberg,Markus	POS	POS	POS	NT	POS	NEG	POS	NT	POS	POS	POS	POS	NEG	POS	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	SSP
1466	Yu,Neng	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
5282	Yu,Neng	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	SSP
713	Zachary,Andrea	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	POS	FULL	POS	POS	FULL, DEL	SSP

Table 5. KIR Exchange Sample: KDNA #124

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	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	POS	SSP
234	Amador, Alexandra	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
16	Askar, Medhat	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	FULL, DEL	SSOP, SSP
8038	Cao, Kai	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	POS	SSOP
8025	Carrington&Marti	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	NT	SSP
774	Cecka, J Michael	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
3224	Chen, Dong-Feng	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP, SSOP
3632	Colombe, Beth	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	FULL, DEL	SSP
8050	Cook, Daniel J.	POS	POS	NEG	POS	B*002-*013	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	POS	SSP
189	Crowe, Deborah	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	FULL, DEL	SSP, SSOP
8039	Davidson, Maureen	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
124	De Santis, Dianne	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	NT	NT	MULTIPLEX SSP
8031	Dinauer, David	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	FULL, DEL	SSP
705	Ellis, Thomas	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
8051	Endres, Robert	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	FULL, DEL	SSP
2549	Fagoaga, Omar	POS	POS	?	POS	B*0020101- *00202/ *004- *00601/ *00603- *01303	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	FULL	SSP
762	Fischer, Gottfried	POS	POS	NEG	POS	A	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	POS	SSP
8047	Fuessel, Monika	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8026	Gardiner, Clair M.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8040	Gladman/Abji/Pellet	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8022	Hedlund, Anna	POS	POS	NEG	POS	B	*001	POS	POS	NEG	NEG	POS	POS	*003	NEG	POS	*003-*005	SSP
1694	Hesse&Kissel	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
1461	Hidajat, M.	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	POS	SSP
3808	Hogan, Patrick	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	FULL, DEL	SSP
5000	Hsu, Susan H.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP, SSP
2344	Hurley&Hartzman	POS	POS	NEG	POS	B*00201	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	POS	SSP, SSOP, SBT-2DL5
3261	Iwaki, Yui	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
794	Jaatinen, Taina	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8076	Jaramillo&Gaitonde	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	POS	SSP
8035	Kanangat, Siva	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP, SSOP
8079	Kashi, Zahra	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP, SSOP
4337	Kim, Tai-Gyu	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8046	Kusnierczyk, Piot	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	POS	MULTIPLEX SSP, SSP
8071	Kwok, Janette	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
791	Lacelle, Chantale	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	FULL, DEL	SSP
278	Lee, Jar-How	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
8069	Maha, George	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	FULL, DEL	SSP
8067	Marino, Susan R.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP, SSOP
5142	Marsh, Steven	POS	POS	NEG	POS	POS	*00101, *007	POS	POS	NEG	NEG	POS	*00103	*003/ *004/ *006/ *007/ *009, -	NEG	POS	*001/ *002/ *004, *003	SSP

Table 5. KIR Exchange Sample: KDNA #124

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8073	Mats,Bengtsson	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
733	Mytilineos,Joanni	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
5231	Nelson,Karen	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
8083	Nikaein,Afzal	POS	POS	NEG	POS	B	*001	POS	POS	NEG	NEG	POS	POS	*003	NEG	POS	POS	SSP
3966	Permpikul&Vejba	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8030	Poulton,Kay V.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
3753	Reed&Rajalingam	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
8064	Roberts,Chrissy	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8060	Rost&Klein	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
4251	Schiller,Jennifer	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
3410	Schroeder,M.L.	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	POS	SSP
1426	Senitzer,David	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	POS	MULTIPLEX SSP
702	Spannagl,Michael	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	POS	SSO,SSP
1108	Sutherland,Leslie	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	POS	SSOP
2518	Tambur,Anat	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	NEG	POS	SSOP
769	Tavoularis,Sofia	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	FULL, DEL	SSOP,SSP
747	Tiercy,Jean-Marie	POS	POS	NEG	POS	B*0020101- *00202/ *004- *00601/ *00603- *01303	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	FULL	SSP
5451	Tilanus,Marcel G.J	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8024	Trowsdale,John	POS	POS	NEG	NT	POS	POS	NT	NT	NEG	NEG	POS	POS	DEL	NEG	POS	FULL, DEL	SSP
5462	Turner,E.V.	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*003/ *004/ *006/ *007/ *012/ *013	NEG	POS	POS	SSP
8053	Tyan/Fernandez-Vin	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*003-*007	NEG	POS	*001/ *002/ *004, *003	SSP
8028	Uhrberg,Markus	POS	POS	NEG	NT	POS	POS	POS	NT	NEG	NEG	POS	POS	POS	NEG	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	FULL, DEL	SSP
1466	Yu,Neng	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
5282	Yu,Neng	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	FULL, DEL	SSP
713	Zachary,Andrea	POS	POS	NEG	POS	B	POS	POS	POS	POS	NEG	POS	POS	DEL	NEG	POS	FULL, DEL	SSP

PARTICIPATING CENTERS

Name			City/State	Country				City/State	Country
Adams	Sharon		Bethesda MD		Lacelle	Chantale	MD	Dallas TX	
Amador	Alexandra		Miami FL		Lee	Jar-How	Dr	Canoga Park CA	
Askar	Medhat	MD PhD	Cleveland OH		Maha	George	PhD	Burlington NC	
Cao	Kai	Dr	Houston TX		Marino	Susana R		Chicago IL	
Carrington/Martin		Drs	Frederick MD		Marsh	Steven	Dr	London	England
Cecka	J. Michael	PHD	Honolulu HI		Mats	Bengtsson		Uppsala	Sweden
Chan	Soh Ha	Prof	Singapore	Singapore	Mytilineos	Joannis	MD	Ulm	Germany
Chen	Dongfeng	Dr	Durham NC		Nelson	Karen		Seattle WA	
Colombe	Beth	PhD	Philadelphia PA		Nikaein	Afzal	Dr	Dallas TX	
Cook	Daniel J.	Dr	San Francisco CA		Permpikul/Vejbaesya		Drs	Bangkok	Thailand
Crowe	Deborah	PhD	Nashville TN		Poulton	Kay V.	Dr	Manchester	England
Davidson	Maureen		Minneapolis MN		Ray/Balazs			Stamford CT	
De Santis	Dianne	Dr	Perth	Australia	Reed/Rajalingam		Drs	Los Angeles CA	
Dinauer	David		Brown Deer WI		Roberts	Chrissy H.		London	England
Ellis	Thomas	Dr	Madison WI		Rost/Klein		Drs	Martinsried	Germany
Endres	Robert	Dr	Tempe AZ		Schiller	Jennifer	PhD	Milwaukee WI	
Fagoaga	Omar	Dr	Detroit MI		Schroeder	M.L.	MD	Winnipeg MB	Canada
Fischer	Gottfried	Dr	Vienna	Austria	Senitzer	David	PhD	Duarte CA	
Fuessel	Monika	PhD	Dresden	Germany	Shanahan	Thomas	PhD	Buffalo NY	
Gardiner	Clair M.	PhD	Dublin	Ireland	Spannagl	Michael	Dr	Munchen	Germany
Gladman/Abji/Pellet			Toronto ON	Canada	Sutherland	Leslie		Stamford CT	
Graff	Ralph J.	Dr	St Louis MO		Tambur	Anat		Chicago IL	
Hedlund, Anna			Saltsjobaden	Sweden	Tavoularis	Sofia	Dr	Ottawa ON	Canada
Hesse&Kissel			Lich	Germany	Tiercy	Jean-Marie	Dr	Geneva	Switzerland
Cauwelier	Barbara	Dr	Brugge	Belgium	Tilanus	Marcel G.J.	Dr	Maastricht	Germany
Hogan	Patrick	Dr	Herston	Australia	Trachtenberg	Elizabeth	PhD	Oakland CA	
Hsu	Susan H.	PhD	Philadelphia PA		Trowsdale	John	Prof	Cambridge	England
Hurley/Hartzman		Drs	Rockville MD		Turner	E.V.	PhD	Memphis TN	
Iwaki	Yui	Dr	San Bernardino CA		Tyan/Fernandez-Vina		Dr	Palo Alto CA	
Jaramillo	Gaitonde&	Drs	Chicago IL		Uhrberg	Markus	Dr	Dusseldorf	Germany
Kanangat	Siva	PhD	Chicago IL		Vidan-Jeras	Blanka		Ljubljana	Slovenia
Kashi	Zahra	Dr	Portland OR		Vilches	Carlos	Dr	Madrid	Spain
Kim	Tai-Gyu	Prof	Seoul	S. Korea	Yu	Neng	MD	Dedham MA	
Kimball	Pam	PhD	Richmond VA		Yu	Neng	MD	Worcester MA	
Kusnierczyk	Piotr	PhD	Wroclaw	Poland	Zachary	Andrea	PhD	Baltimore MD	
Kwok	Janette	Dr	Hong Kong						