

# REPORT OF THE 30TH UCLA INTERNATIONAL KIR EXCHANGE

MAY 8, 2013

KIR	117-120
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Dear Colleagues:

For the 30th KIR Exchange, 4 DNA samples (KDNA#117-120) were shipped to each laboratory on February 6, 2013. Sixty-three 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 30th 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, 2DS3, 2DS4, 2DS5, 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 (KIR2DL1, 2DL2, 3DL1, 3DL2, 3DL3, 2DS2, 2DS4, and 2DP1). 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.

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## **KIR Exchange Sample: KDNA # 0117:**

The consensus KIR type for this sample is: 2DL1-2DL3-2DL4-2DL5A-3DL1-3DL2-3DL3-3DS1-2DS1-2DS3-2DS4DEL-2DP1-3DP1DEL. One laboratory reported this sample as negative for 3DP1. This genotype occurs across all populations with the highest frequency, 12%, observed among Samoan populations in Southeast Asia (1).

## **KIR Exchange Sample: KDNA # 0118:**

The consensus KIR type for this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-3DS1-2DS1-2DS2-2DS4DEL-2DS5-2DP1-3DP1DEL. Two laboratories reported this sample as negative for 2DL3, 1 reported is as positive for 3DS1, and another reported it as negative for 2DS5. This genotype is most often observed in the Cook Island populations in Southeast Asia and Amazonian Amerindians, with respective frequencies of 8% and 10% (1,2).

## **KIR Exchange Sample: KDNA # 0119:**

The consensus KIR type for this Black sample is: 2DL1-2DL2-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS1-2DS2-2DS4FULL-2DS5-2DP1-3DP1DEL. Two laboratories reported this sample as positive for 2DL3, two reported is as positive for 3DS1, 1 reported is as positive for 2DS3, and 1 reported is negative for 3DP1. This genotype has been observed among Asian Indians and African Americans at a frequency of 1.7%, as well as in Caucasians at a frequency of 2.4% (1,3). It has not been found in Asian and Native American populations.

## **KIR Exchange Sample: KDNA # 0120:**

The consensus KIR type for this sample is 2DL1-2DL2-2DL4-2DL5A&B-3DL1-3DL2-3DL3-3DS1-2DS1-2DS2-2DS3-2DS4FULL-2DS5-2DP1-3DP1DEL. This sample had a number of discrepancies. Two laboratories reported this sample as positive for 2DL3, 1 reported 2DL4 as negative, 1 reported 2DL5 as negative, 1 reported 3DS1 as negative, and another reported 2DS1 as negative. This genotype has been observed most often in Asian Indian populations, with the highest frequency occurring among the Parsi, 8%, and Paravar, 7.8% (3,4).

## References

1. Norman, P. J., C. V. Carrington, M. Byng, L. D. Maxwell, M. D. Curran, H. A. Stephens, D. Chandanayingyong, D. H. Verity, K. Hameed, D. D. Ramdath, and R. W. Vaughan. 2002. Natural killer cell immunoglobulin-like receptor (KIR) locus profiles in African and South Asian populations. *Genes Immun* 2002;3:86-95.
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. 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.
4. Kulkarni S, Single RM, Martin MP, Rajalingam R, Badwe R, Joshi N, Carrington M. Comparison of the rapidly evolving KIR locus in Parsis and natives of India. *Immunogenetics* 2008;60:121-129.

***NEXT MAILING DATE: August 7, 2013***

*Arlene Locke, Marie Lau, Elaine F. Reed, and Raja Rajalingam*

**Table 1. Summary of the 30<sup>th</sup> KIR Exchange (KDNA#117-120)**

KIR Ex.	DNA	# reporting labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#30	#0117	63	POS	NEG	POS	POS NT [2]	POS A [19] A*001010101- *01202 [1] A*001-*012 [1] A*00501 [1]	POS *001 [2] *001-*003 [1]	POS NT [1]	POS NT [2]	POS	POS *0020101-*008 [2] *002-*008 [2] *002 [1]	NEG	POS *00201 [1]	POS DEL [31] FULL, DEL [2]	NEG	POS NT [2]	POS DEL [21] FULL [1] FULL, DEL [1] NEG [1] NT [3]
	#0118	63	POS	POS *004 [1] *009 [1]	POS NEG [2]	POS NT [2]	POS B [13] B*003-*00602 [2] B*003-*006 [2] B*003/ *00602 [1] B*003 [1] A, B [2]	POS *00401 [1] *004 [1] *00401-*00403 [1]	POS NT [1]	POS NT [2]	NEG POS [1]	POS *0020101-*008 [2] *002-*008 [2] *002 [1] *004/*008 [1]	POS	NEG	POS DEL [30] FULL, DEL [3]	POS *003 [1] NEG [1]	POS NT [2]	POS DEL [18] *003 [3] FULL, DEL [1] NT [3]
	#0119	63	POS	POS *001- *003/ *005 [1]	NEG POS [2]	POS NT [2]	POS B [17] B*002-*013 [1] B*003/ *006 [1] B*0020101-*00202/ *004- *00601/ *00603-*01303/ *003/ *00602 [1] B*0020101-*00202/*004- *00601/ *00603-*01303 [1] B*00601-*011 [1] A, B [2]	POS *001 [1] *006 [1] *001-*003/ *005- *009 [1]	POS NT [1]	POS NT [2]	NEG POS [2]	POS *002-*008 [3] *0020101-*008 [1] *002 [1] *004/ *008 [1]	POS	NEG POS [1]	POS FULL [32]	POS	POS NT [2]	POS DEL [22] FULL, DEL [1] NEG [1] NT [3]
	#0120	63	POS	POS *001- *003/ *005 [1]	NEG POS [2]	POS NEG [1] NT [2]	POS A, B [16] A*00101-B*00201 [1] A*0010102-*01202, B*0020101-*002002/ *004- *00602/ *00603-*1303 [1] NEG [1]	POS *001 [1] *01502 [1] *001-*003/ *005/ *009 [1]	POS NT [1]	POS NT [2]	POS NEG [1]	POS *002-*008 [3] *0020101-*008 [1] *002 [1] NEG [1]	POS	POS *00103 [1]	POS FULL [32]	POS	POS NT [2]	POS DEL [22] FULL, DEL [1] 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 #117**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSP
234	Amador, Alexandra	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP
16	Askar, Medhat	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSOP, SSP
8038	Cao, Kai	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	POS	SSOP
8025	Carrington&Marti	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	NT	SSP
3224	Chen, Dong-Feng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP, SSOP
3632	Colombe, Beth	POS	NEG	POS	POS	A	POS	POS	POS	POS	*002-*008	NEG	POS	DEL	NEG	POS	DEL	SSP
8050	Cook, Daniel J.	POS	NEG	POS	POS	A*001-*012	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSP
189	Crowe, Deborah	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP, SSOP
8039	Davidson, Maureen	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP
124	De Santis, Dianne	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	FULL, DEL	NEG	NT	NT	MULTIPLEX SSP
8031	Dinauer, David	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSP
705	Ellis, Thomas	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	FULL, DEL	NEG	POS	POS	SSOP
8051	Endres, Robert	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSP
2549	Fagoaga, Omar	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSP
762	Fischer, Gottfried	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSP
8047	Fuessel, Monika	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
8026	Gardiner, Clair M.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
8040	Gladman/Abji/Pellet	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
4985	Graff, Ralph J.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
8022	Hedlund, Anna	POS	NEG	POS	POS	A	*001- *003	POS	POS	POS	*0020101- *008	NEG	POS	*003/ *004/ *006	NEG	POS	*0030101- *0080402	SSP
1694	Hesse&Kissel	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
1461	Hidajat, M.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSP
3808	Hogan, Patrick	POS	NEG	POS	POS	A	POS	POS	POS	POS	*0020101- *008	NEG	POS	DEL	NEG	POS	DEL	SSP
5000	Hsu, Susan H.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP, SSP
2344	Hurley&Hartzman	POS	NEG	POS	POS	A*00501	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	POS	SSP, SSOP, SBT- 2DL5
3261	Iwaki, Yui	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
8076	Jaramillo&Gaitonde	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	POS	SSP
8035	Kanangat, Siva	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP, SSOP
8079	Kashi, Zahra	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP, SSOP
4337	Kim, Tai-Gyu	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
8046	Kusnierczyk, Piot	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	POS	MULTIPLEX SSP, SSP
8071	Kwok, Janette	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP
791	Lacelle, Chantale	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSP
278	Lee, Jar-How	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP
8069	Maha, George	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSP
8067	Marino, Susan R.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP, SSOP
5142	Marsh, Steven	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*00201	*003/ *004/ *006/ *007/ *009, -	NEG	POS	*003, -	SSP
8073	Mats, Bengtsson	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP

**Table 2. KIR Exchange Sample: KDNA #117**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
733	Mytilineos,Joanni	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
5231	Nelson,Karen	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSO
8082	Nikaein,Afzal	POS	NEG	POS	POS	A	*001	POS	POS	POS	*002	NEG	POS	*003	NEG	POS	POS	SSP
3966	Permpikul&Vejba	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
3753	Reed&Rajalingam	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP,SSP
8060	Rost&Klein	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP
4251	Schiller,Jennifer	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP
3410	Schroeder,M.L.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSP
1426	Senitzer,David	POS	NEG	POS	POS	POS	*001	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	POS	MULTIPLEX-SSP
1108	Sutherland,Leslie	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	POS	SSOP
2518	Tambur,Anat	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	NEG	SSOP
769	Tavoularis,Sofia	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	FULL, DEL	SSOP,SSP
747	Tiercy,Jean-Marie	POS	NEG	POS	POS	A*0010101- *01202	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSP
5451	Tilanus,Marcel G.J	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
8024	Trowsdale,John	POS	NEG	POS	NT	POS	POS	NT	NT	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSP
5462	Turner,E.V.	POS	NEG	POS	POS	A	POS	POS	POS	POS	*002-*008	NEG	POS	*003/ *004/ *006/ *007- *010/ *012/ *013	NEG	POS	POS	SSP
8053	Tyan/Fernandez-Vin	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*003-*007	NEG	POS	*003	SSP,SSOP
8028	Uhrberg,Markus	POS	NEG	POS	NT	POS	POS	POS	NT	POS	POS	NEG	POS	POS	NEG	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
8023	Vilches,Carlos	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSP
3186	Watson,Narelle																	SSP
1466	Yu,Neng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP
5282	Yu,Neng	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSP
713	Zachary,Andrea	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	DEL	SSOP

**Table 3. KIR Exchange Sample: KDNA #118**

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	B	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
234	Amador,Alexandra	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
16	Askar,Medhat	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSOP,SSP
8038	Cao,Kai	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	POS	SSOP
8025	Carrington&Marti	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	NT	SSP
3224	Chen,Dong-Feng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP,SSOP
3632	Colombe,Beth	POS	POS	POS	POS	B	POS	POS	POS	NEG	*002-*008	POS	NEG	DEL	POS	POS	DEL	SSP
8050	Cook,Daniel J.	POS	POS	POS	POS	B*003/ *006	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
189	Crowe,Deborah	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP,SSOP
8039	Davidson,Maureen	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
124	De Santis,Dianne	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL, DEL	POS	NT	NT	MULTIPLEX SSP
8031	Dinauer,David	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
705	Ellis,Thomas	POS	*009	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL, DEL	POS	POS	POS	SSOP
8051	Endres,Robert	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
2549	Fagoaga,Omar	POS	POS	POS	POS	B *003/ *00602	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	POS	DEL	SSP
762	Fischer,Gottfried	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
8047	Fuessel,Monika	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8026	Gardiner,Clair M.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8040	Gladman/Abji/Pellet	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
4985	Graff,Ralph J.	POS	POS	POS	POS	A, B	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8022	Hedlund, Anna	POS	POS	POS	POS	B	*00401- *00403	POS	POS	NEG	*0020101- *008	POS	NEG	*003/ *004/ *006	POS	POS	*003	SSP
1694	Hesse&Kissel	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
1461	Hidajat,M.	POS	POS	POS	POS	B*003/ *00602	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
3808	Hogan,Patrick	POS	POS	POS	POS	B	POS	POS	POS	NEG	*0020101- *008	POS	NEG	DEL	POS	POS	DEL	SSP
5000	Hsu,Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP,SSP
2344	Hurley&Hartzman	POS	POS	POS	POS	B*003	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	POS	SSP, SSOP, SBT- 2DL5
3261	Iwaki,Yui	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8076	Jaramillo&Gaitonde	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	POS	SSP
8035	Kanangat,Siva	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP,SSOP
8079	Kashi,Zahra	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP,SSOP
4337	Kim,Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	NEG	POS	POS	SSP
8046	Kusnierczyk,Piot	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	POS	MULTIPLEX SSP, SSP
8071	Kwok,Janette	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
791	Lacelle,Chantale	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
278	Lee,Jar-How	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
8069	Maha,George	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
8067	Marino,Susan R.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP,SSOP
5142	Marsh,Steven	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	*003	SSP

**Table 3. KIR Exchange Sample: KDNA #118**

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	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
733	Mytilineos,Joanni	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
5231	Nelson,Karen	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSO
8082	Nikaein,Afzal	POS	POS	POS	POS	A, B	POS	POS	POS	NEG	*002	POS	NEG	*003	POS	POS	POS	SSP
3966	Permpikul&Vejba	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
3753	Reed&Rajalingam	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP,SSP
8060	Rost&Klein	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
4251	Schiller,Jennifer	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
3410	Schroeder,M.L.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
1426	Senitzer,David	POS	POS	POS	POS	B*003/ *006	*00401	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	POS	MULTIPLEX SSP
1108	Sutherland,Leslie	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL, DEL	POS	POS	POS	SSOP
2518	Tambur,Anat	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
769	Tavoularis,Sofia	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	FULL, DEL	SSOP,SSP
747	Tiercy,Jean-Marie	POS	POS	POS	POS	B*003/ *00602	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
5451	Tilanus,Marcel G.J	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8024	Trowsdale,John	POS	*004	POS	NT	POS	POS	NT	NT	NEG	*004/ *008	POS	NEG	DEL	*003	POS	DEL	SSP
5462	Turner,E.V.	POS	POS	POS	POS	B	*004	POS	POS	NEG	*002-*008	POS	NEG	*003/ *004/ *006/ *007- 010/ *012/ *013	POS	POS	POS	SSP
8053	Tyan/Fernandez-Vin	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003-*007	POS	POS	*003	SSP,SSOP
8028	Uhrberg,Markus	POS	POS	POS	NT	POS	POS	POS	NT	NEG	POS	POS	NEG	POS	POS	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
3186	Watson,Narelle																	SSP
1466	Yu,Neng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
5282	Yu,Neng	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
713	Zachary,Andrea	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSOP

**Table 4. KIR Exchange Sample: KDNA #119 (Black)**

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	POS	POS	NEG	FULL	POS	POS	DEL	SSP
234	Amador, Alexandra	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
16	Askar, Medhat	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSOP, SSP
8038	Cao, Kai	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	POS	SSOP
8025	Carrington&Marti	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	NT	SSP
3224	Chen, Dong-Feng	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP, SSOP
3632	Colombe, Beth	POS	POS	NEG	POS	B	POS	POS	POS	NEG	*002-*008	POS	NEG	FULL	POS	POS	DEL	SSP
8050	Cook, Daniel J.	POS	POS	NEG	POS	B*002-*013	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
189	Crowe, Deborah	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	DEL	SSP, SSOP
8039	Davidson, Maureen	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
124	De Santis, Dianne	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	NT	NT	MULTIPLEX SSP
8031	Dinauer, David	POS	POS	NEG	POS	B	POS	POS	POS	POS	POS	POS	NEG	FULL	POS	POS	DEL	SSP
705	Ellis, Thomas	POS	*001-*003/ *005	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	POS	SSOP
8051	Endres, Robert	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
2549	Fagoaga, Omar	POS	POS	NEG	POS	B*0020101- *00202/ *004- *00601/ *00603- *01303	POS	POS	POS	POS	POS	POS	NEG	FULL	POS	POS	DEL	SSP
762	Fischer, Gottfried	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
8047	Fuessel, Monika	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8026	Gardiner, Clair M.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8040	Gladman/Abji/Pellet	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	NEG	POS	A, B	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8022	Hedlund, Anna	POS	POS	NEG	POS	B	*001-*003/ *005/ *009	POS	POS	NEG	*002-*008	POS	NEG	*001	POS	POS	*003	SSP
1694	Hesse&Kissel	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
1461	Hidajat, M.	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
3808	Hogan, Patrick	POS	POS	NEG	POS	B	POS	POS	POS	NEG	*0020101- *008	POS	NEG	FULL	POS	POS	DEL	SSP
5000	Hsu, Susan H.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP, SSP
2344	Hurley&Hartzman	POS	POS	NEG	POS	B*00601/ *011	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	POS	SSP, SSOP, SBT- 2DL5
3261	Iwaki, Yui	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	SSP
8076	Jaramillo&Gaitonde	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	POS	SSP
8035	Kanangat, Siva	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP, SSOP
8079	Kashi, Zahra	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP, SSOP
4337	Kim, Tai-Gyu	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8046	Kusnierczyk, Piot	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	POS	MULTIPLEX SSP, SSP
8071	Kwok, Janette	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
791	Lacelle, Chantale	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
278	Lee, Jar-How	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	SSOP
8069	Maha, George	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP



**Table 4. KIR Exchange Sample: KDNA #119 (Black)**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8067	Marino,Susan R.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP,SSOP
5142	Marsh,Steven	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*001	POS	POS	*003	SSP
8073	Mats,Bengtsson	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
733	Mytilineos,Joanni	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
5231	Nelson,Karen	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSO
8082	Nikaein,Afzal	POS	POS	NEG	POS	A, B	*001	POS	POS	NEG	*002	POS	NEG	*001	POS	POS	POS	SSP
3966	Permpikul&Vejba	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
3753	Reed&Rajalingam	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP,SSP
8064	Roberts,Chrissy																	WGA-SSP
8060	Rost&Klein	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
4251	Schiller,Jennifer	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
3410	Schroeder,M.L.	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
1426	Senitzer,David	POS	POS	NEG	POS	B*003/ *006	*006	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	POS	MULTIPLEX SSP
1108	Sutherland,Leslie	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	POS	SSOP
2518	Tambur,Anat	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
769	Tavoularis,Sofia	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	FULL, DEL	SSOP,SSP
747	Tiercy,Jean-Marie	POS	POS	NEG	POS	B*0020101- *00202/ *004- *00601/ *00603- *01303/ *003/ *00602	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
5451	Tilanus,Marcel G.J	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8024	Trowsdale,John	POS	POS	NEG	NT	POS	POS	NT	NT	NEG	*004/ *008	POS	NEG	FULL	POS	POS	DEL	SSP
5462	Turner,E.V.	POS	POS	NEG	POS	B	POS	POS	POS	NEG	*002-*008	POS	NEG	*001/ *011/ *014/ *015	POS	POS	POS	SSP
8053	Tyan/Fernandez-Vin	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*001/ *002	POS	POS	*003	SSP,SSOP
8028	Uhrberg,Markus	POS	POS	NEG	NT	POS	POS	POS	NT	NEG	POS	POS	NEG	POS	POS	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
1466	Yu,Neng	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
5282	Yu,Neng	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
713	Zachary,Andrea	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSOP

**Table 5. KIR Exchange Sample: KDNA #120**

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	POS	POS	DEL	SSP
234	Amador, Alexandra	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
16	Askar, Medhat	POS	POS	POS	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	DEL	SSOP, SSP
8038	Cao, Kai	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
8025	Carrington&Marti	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	NT	SSP
785	Chan, Soh Ha																	RT-PCR
3224	Chen, Dong-Feng	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP, SSOP
3632	Colombe, Beth	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	*002-*008	POS	POS	FULL	POS	POS	DEL	SSP
8050	Cook, Daniel J.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	DEL	SSP
189	Crowe, Deborah	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL	POS	POS	DEL	SSP, SSOP
8039	Davidson, Maureen	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
124	De Santis, Dianne	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NT	NT	MULTIPLEX SSP
8031	Dinauer, David	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	DEL	SSP
705	Ellis, Thomas	POS	*001- *003/ *005	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	POS	SSOP
8051	Endres, Robert	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	DEL	SSP
2549	Fagoaga, Omar	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	DEL	SSP
762	Fischer, Gottfried	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	DEL	SSP
8047	Fuessel, Monika	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8026	Gardiner, Clair M.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8040	Gladman/Abji/Pellet	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8022	Hedlund, Anna	POS	POS	NEG	POS	A, B	*001-*003/ *005/ *009	POS	POS	POS	*002-*008	POS	POS	*001	POS	POS	*003	SSP
1694	Hesse&Kissel	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
1461	Hidajat, M.	POS	POS	NEG	POS	NEG	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	DEL	SSP
3808	Hogan, Patrick	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	*0020101- *008	POS	POS	FULL	POS	POS	DEL	SSP
5000	Hsu, Susan H.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP, SSP
2344	Hurley&Hartzman	POS	POS	NEG	POS	A*00101, B*00201	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	POS	SSP, SSOP, SBT- 2DL5
3261	Iwaki, Yui	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8076	Jaramillo&Gaitonde	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	POS	SSP
8035	Kanangat, Siva	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	SSP, SSOP
8079	Kashi, Zahra	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP, SSOP
4337	Kim, Tai-Gyu	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8046	Kusnierczyk, Piot	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	POS	MULTIPLEX SSP, SSP
8071	Kwok, Janette	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
791	Lacelle, Chantale	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	DEL	SSP
278	Lee, Jar-How	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
8069	Maha, George	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	DEL	SSP
8067	Marino, Susan R.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP, SSOP
5142	Marsh, Steven	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	*00103	*001	POS	POS	*003	SSP

**Table 5. KIR Exchange Sample: KDNA #120**

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	POS	POS	POS	POS	POS	POS	POS	POS	SSP
733	Mytilineos,Joanni	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
5231	Nelson,Karen	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSO
8082	Nikaein,Afzal	POS	POS	NEG	POS	A, B	*001	POS	POS	POS	*002	POS	POS	*001	POS	POS	POS	SSP
3966	Permpikul&Vejba	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
3753	Reed&Rajalingam	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP,SSP
8060	Rost&Klein	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
4251	Schiller,Jennifer	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
3410	Schroeder,M.L.	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	DEL	SSP
1426	Senitzer,David	POS	POS	NEG	POS	POS	*01502	POS	POS	POS	POS	POS	POS	FULL	POS	POS	POS	MULTIPLEX SSP
1108	Sutherland,Leslie	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	POS	SSOP
2518	Tambur,Anat	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
769	Tavoularis,Sofia	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	FULL, DEL	SSOP,SSP
						A*0010102- *01202, B*0020101- *002002/ *004-*00602/ *00603- *1303												
747	Tiercy,Jean-Marie	POS	POS	NEG	POS		POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	DEL	SSP
5451	Tilanus,Marcel G.J	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8024	Trowsdale,John	POS	POS	NEG	NT	POS	POS	NT	NT	POS	POS	POS	POS	FULL	POS	POS	DEL	SSP
5462	Turner,E.V.	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	*002-*008	POS	POS	*001/*011/* 014/ *015	POS	POS	POS	SSP
8053	Tyan/Fernandez-Vin	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*003	SSP,SSOP
8028	Uhrberg,Markus	POS	POS	NEG	NT	POS	POS	POS	NT	POS	POS	POS	POS	POS	POS	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	DEL	SSP
1466	Yu,Neng	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
5282	Yu,Neng	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	DEL	SSP
713	Zachary,Andrea	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	DEL	SSOP

**PARTICIPATING CENTERS**

Name			City/State	Country	Name			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
Chan	Soh Ha	Prof	Singapore	Singapore	Mats	Bengtsson		Uppsala	Sweden
Chen	Dongfeng	Dr	Durham NC		Mytilineos	Joannis	MD	Ulm	Germany
Colombe	Beth	PhD	Philadelphia PA		Nelson	Karen		Seattle WA	
Cook	Daniel J.	Dr	San Francisco CA		Nikaein	Afzal	Dr	Dallas TX	
Crowe	Deborah	PhD	Nashville TN		Permpikul/Vejbaesya		Drs	Bangkok	Thailand
Davidson	Maureen		Minneapolis MN		Poulton	Kay V.	Dr	Manchester	England
De Santis	Dianne	Dr	Perth	Australia	Ray/Balazs			Stamford CT	
Dinauer	David		Brown Deer WI		Reed/Rajalingam		Drs	Los Angeles CA	
Ellis	Thomas	Dr	Madison WI		Roberts	Chrissy H.		London	England
Endres	Robert	Dr	Tempe AZ		Rost/Klein		Drs	Martinsried	Germany
Fagoaga	Omar	Dr	Detroit MI		Schiller	Jennifer	PhD	Milwaukee WI	
Fischer	Gottfried	Dr	Vienna	Austria	Schroeder	M.L.	MD	Winnipeg MB	Canada
Fuessel	Monika	PhD	Dresden	Germany	Senitzer	David	PhD	Duarte CA	
Gardiner	Clair M.	PhD	Dublin	Ireland	Shanahan	Thomas	PhD	Buffalo NY	
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	
Kusnierczyk	Piotr	PhD	Wroclaw	Poland	Yu	Neng	MD	Worcester MA	
Kwok	Janette	Dr	Hong Kong		Zachary	Andrea	PhD	Baltimore MD	