

B-CELL LINE EXCHANGE #272 NOVEMBER 7, 2017

B-cell Lines 543-544

The results for B-cell Line Exchange #272 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 8. We are most grateful to the generosity of Leiden University Medical Centre, Leiden and to Welsh Blood Service, Pontyclun Wales for sharing the

interesting cells studied in this Exchange.

We would also like to acknowledge and thank the labs performing NGS typing for sharing their results and encourage other NGS labs to share their findings.

Ter-543. The consensus type for this sample is DRB1*01:03-DRB1*11:29-DRB3*02:02-DQA1*01:01-DQA1*05:05-DQB1*03:01-DQB1*05:01-DPA1*03:01-DPB1*02:01/A*02:01-A*29:02-B*18:01-B*44:02-C*05:01-C*07:01. No race information is available for this sample. One possible class II association present in this cell is DRB1*01:03-DQA1*01:01-DQB1*05:01, observed in numerous exchange cells, most recently Ter 509 (same as Ter 270 and Ter 73) and Ter 497 (same as Ter 387). The other class II association likely present is DRB1*11:29-DRB3*02:02-DQA1*05:05-DQB1*03:01.

This sample was previously typed as Ter 428 (2009), Ter 310 (2002), and Ter 290 (2001). We congratulate Rao for correctly identifying this cell as being previously studied. In this present retyping, DRB1*11:29 was reported in complete consensus, with 10 labs assigning DRB1*11:29:01. In 2009, DRB1*11:01 was misassigned by 2 labs. DRB1*01:03 (100%) was reported as the second DRB1 type. DQA1*05:05 and DQB1*03:01 were each assigned by 100% of labs reporting at high resolution, an improvement from the 2009 typing, in which 12 labs assigned DQA1*05:05/09 and 5 labs assigned DQB1*03:01/19. DQA1*01:01 (100%) and DQB1*05:01 (100%) were assigned as the second DQA1 and DQB1 types. The class I types were reported as A*02:01 (100%), A*29:02 (100%), B*18:01 (100%), B*44:02 (100%), C*05:01 (100%), and C*07:01 (100%). A number (n=4) of NGS labs reported higher resolution results, assigning A*02:01:01:01, A*29:02:01:01, B*18:01:01:02, B*44:02:01:01, C*05:01:01:02, C*07:01:01:01.

Ter-544. The consensus type for this sample from a Caucasian donor is DRB1*07:01-DRB1*11:19-DRB3*02:02-DRB4*01:03-DQA1*02:01-DQA1*05:05-DQB1*02:02-DQB1*03:01-DPA1*01:03-DPB1*02:01-DPB1*04:01/A*02:01-A*24:02-B*07:02-B*13:02-C*06:02-C*07:02. One possible class II association present in this cell is DRB1*07:01-DRB4*01:03-DQA1*02:01-DQB1*02:02, observed in previous exchange cells, Ter 519 (same as Ter 416) and the workshop cell IHW#9431 (same as Ter 427 and Ter 307). DRB1*11:19-DRB3*02:02-DQA1*05:05-DQB1*03:01 is the other likely class II association present, which was observed in Ter 483 (same as Ter 298, 278, and 217).

This cell was studied multiple times in the exchange, as Ter 502 (2014), Ter 408 (2008), and Ter 297 (2002), as correctly identified by Rao. Similar to the 2014 study, DRB1*11:19 (DRB1*11:19:01) (97%) was once again well assigned, by labs reporting at high resolution. DRB1*07:01 (100%) was reported as the second DRB1 type, with 9 labs assigning DRB1*07:01:01. DQA1*02:01 DQA1*05:05, DQB1*02:02, and DQB1*03:01 were each reported in complete consensus, with 6 labs assigning DQA1*02:01:01 and DQA1*05:05:01, 9 labs assigning DQB1*02:02:01, and 8 labs assigning DQB1*03:01:01. A*02:01, A*24:02, B*07:02, B*13:02, C*06:02, and C*07:02 were each assigned in complete consensus, with 6 labs assigning A*24:02:01 and B*07:02:01, and 7 labs assigning A*02:01:01, B*13:02:01, C*06:02:01, and C*07:02:01.



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Arlene Locke, David Gjertson, Qiuheng Zhang, and Elaine F. Reed



Table 1: Summary of the 272nd B-cell Line Exchange

Ter-543

DNA Typing - class II	37 labs High; 31 labs low-DRB1	%(n)	21 labs High; 23 labs Low-DRB3/4/5	%(n)	20 labs High; 27 labs Low-DQA1	%(n)	32 High Labs; 30 labs Low-DQB1	%(n)	14 High Labs; 13 labs Low-DPA1	%(n)	29 High Labs; 17 labs Low-DPB1	%(n)
	DRB1*01:03	100(37)	DRB3*02:02:01	24(5)	DQA1*01:01:01:03	5 (1)	DQB1*03:01:01:03	9 (3)	DPA1*01:03:01:01	29(4)	DPB1*02:01:02	24(7)
	DRB1*103	10(3)	DRB3*02:02	76(16)	DQA1*01:01:01	25(5)	DQB1*03:01:01	16(5)	DPA1*01:03:01	7 (1)	DPB1*02:01:02G	3 (1)
	DRB1*01	90(28)	DRB3*02	87(20)	DQA1*01:01	70(14)	DQB1*03:01:01G	6 (2)	DPA1*01:03	64(9)	DPB1*02:01G	3 (1)
			DRB3*PRESENT	13(3)	DQA1*01	100(27)	DQB1*03:01	69(22)	DPA1*01	100(13)	DPB1*02:01P	3 (1)
							DQB1*03(DQ7)	3 (1)			DPB1*02:01	66(19)
							DQB1*03	97(29)			DPB1*02(DP201)	53(9)
											DPB1*02	47(8)
	DNA Typing - class I	33 labs High; 32 labs low-DRB1	%(n)	22 labs High; 23 labs low- A	%(n)	21 labs High; 26 labs Low-DQA1	%(n)	32 High Labs; 30 labs Low-DQB1	%(n)			
DBR1*11:29:01		30(10)	A*02:01:01:01	14(3)	DQA1*05:05:01:01	10(2)	DQB1*05:01:01:03	9(3)				
DBR1*11:29		70(23)	A*02:01:01	18(4)	DQA1*05:05:01	19(4)	DQB1*05:01:01	19(6)				
DRB1*11		100(32)	A*02:01:01G	5 (1)	DQA1*05:05	71(15)	DQB1*05:01	72(23)				
			A*02	100(23)	DQA1*05	100(26)	DQB1*05	100(30)				

Table 2: Summary of the 272nd B-cell Line Exchange

Ter-544

DNA Typing - class II		DNA Typing - class I	
DNA Typing - class II	34 labs High; 32 labs low-DRB1	20 labs High; 23 labs Low-DRB3/4/5	21 labs High; 26 labs Low-DQA1
	DRB1*07:01:01:01	DRB3*02:02:01:02	DQA1*02:01:01:01
	DRB1*07:01:01	DRB3*02:02:01	DQA1*02:01:01
	DRB1*07:01:01G	DRB3*02:02:01G	DQA1*02:01
	DRB1*07:01	DRB3*02:02	DQA1*02
	DRB1*07	DRB3*02	
		DRB3*PRESENT	
DNA Typing - class I	34 labs High; 32 labs low-DRB1	20 labs High; 23 labs Low-DRB3/4/5	21 labs High; 26 labs Low-DQA1
	DRB1*11:19:01	DRB4*01:01:01G	DQA1*05:05:01:01
	DRB1*11:19	DRB4*01:03:01	DQA1*05:05:01:02
	DRB1*11:29	DRB4*01:03	DQA1*05:05:01
	DRB1*11	DRB4*01	DQA1*05:05
		DRB4*PRESENT	DQA1*05
DNA Typing - class II	33 High Labs; 30 labs Low-DQB1	14 High Labs; 13 labs Low-DPA1	29 High Labs; 17 labs Low-DPB1
	DQB1*02:02:01	DPA1*01:03:01:01	DPB1*02:01:02
	DQB1*02:02	DPA1*01:03:01	DPB1*02:01:02G
	DQB1*02	DPA1*01:03	DPB1*02:01G
		DPA1*01	DPB1*02:01
			DPB1*02(DP201)
			DPB1*02
DNA Typing - class I	33 High Labs; 30 labs Low-DQB1	14 High Labs; 13 labs Low-DPA1	29 High Labs; 17 labs Low-DPB1
	DQB1*03:01:01:03	DPA1*01:03:01:01	DPB1*04:01:01:01
	DQB1*03:01:01	DPA1*01:03:01	DPB1*04:01:01:02
	DQB1*03:01:01G	DPA1*01:03	DPB1*04:01:01
	DQB1*03:01	DPA1*01	DPB1*04:01:01G
	DQB1*03(DQ7)		DPB1*04:01G
	DQB1*03		DPB1*04:01
			DPB1*04(DP401)
			DPB1*04
DNA Typing - class I	22 labs High; 23 labs low- A	22 labs High; 23 labs low- B	22 labs High; 23 labs low- C
	A*02:01:01:01	B*07:02:01	C*06:02:01:01
	A*02:01:01	B*07:02:01G	C*06:02:01
	A*02:01:01G	B*07:02	C*06:02:01G
	A*02:01	B*07	C*06:02
	A*02		C*06
DNA Typing - class I	22 labs High; 23 labs low- A	22 labs High; 23 labs low- B	22 labs High; 23 labs low- C
	A*24:02:01:01	B*13:02:01	C*07:02:01:03
	A*24:02:01	B*13:02	C*07:02:01
	A*24:02:01G	B*13	C*07:02:01G
	A*24:02		C*07:02
	A*24		C*07

Table 3a: Individual laboratory results for B-cell #543-Class II

Low resolution																
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles	
5488	Adams , Sharon			3*02		*01								SSP SSO SBT		
5462	Arnold , Paula	*01	*11	3*02	NP	*01	*05	*03	*05	*01		*02(DP201)	*02(DP201)	SSO		
774	Cecka , J. Michael	*01	*11	3*02		*01	*05	*03	*05	*01		*02(DP201)		SSP SSO		
3632	Colombe , Beth W	*01	*11	3*02		*01	*05	*03	*05	*01		*02		SSP SSO		
5130	Costeas , Paul A.	*01	*11	3*02		*01	*05	*03	*05			*02	*02	SSP SSO NGS		
779	Daniel , Claude	*01	*11	3*02		*01	*05	*03	*05	*01	*01	*02(DP201)	*02(DP201)	SSP SSO		
5219	Daniel , Dolly	*01	*11			*01	*05	*03	*05					SSO		
87	Di Paola , Nicholas	*01	*11	3*02		*01	*05	*03	*05	*01	*01	*02(DP201)	*02(DP201)	RT-PCR		
5214	Eckels/CPMC ,	*103	*11	3*02		*01	*05	*03(DQ7)	*05	*01		*02(DP201)		RT-PCR		
747	Ferrari-Lacruz , Sy	*01	*11	3*02		*01	*05	*03	*05	*01	*01	*02	*02	SSP SSO NGS		
4079	Fort , Marylise	*01	*11					*03	*05					SSP		
792	Gandhi , Manish	*103	*11	3*02		*01	*05	*03	*05	*01		*02		SSO SBT		
8043	Gideoni , Osnat	*01	*11			*01	*05	*03	*05					SSP SSO		
810	Hamdi , Nuha		*11			*01	*05	*03	*05							
8087	Hernandez Rosale	*01	*11			*01	*05	*03	*05					SSO		
771	Israel , Shoshana	*01	*11			*01	*05	*03	*05					SSP SSO		
794	Jaatinen , Taina	*01	*11	3*02		*01	*05	*03	*05	*01		*02		SSP SSO SBT		
725	Lardy , N.M.	*01	*11	3*PRESENT		*01	*05	*03	*05					RT-PCR		
278	Lee , Jar-How	*01	*11	3*02	NT	*01	*05	*03	*05	*01	*01	*02	*02	SSO		
6649	Lim , Young Ae	*01	*11	3*PRESENT	5*PRESENT									SSP		
2400	Liu , Chang	*01	*11	3*02		*01	*05	*03	*05			*02		SSP SSO SBT		
731	Loewenthal , Ron	*01	*11			*01	*05	*03	*05					SSP SSO SBT		
206	McAlack , Robert	*01	*11	3*02		*01	*05	*03	*05	*01	*01	*02				
735	Moussa , Omar	*01	*11	3*02		*01	*05	*03	*05	*01	*01	*02(DP201)	*02(DP201)	SSO		
3966	Permpikul , Vejbae													SSP		
8001	Rao , Prakash	*103	*11	3*02		*01	*05	*03	*05							
3519	Renac , Virginie	*01	*11					*03	*05			*02(DP201)		SSP NGS		
793	Rubocki , Ronald	*01	*11	3*02		*01	*05	*03	*05			*02(DP201)		SSP		
4251	Schiller , Jennifer	*01	*11	3*02		*01	*05	*03	*05	*01	*01	*02(DP201)	*02(DP201)	SSO NGS		
8068	Shanmugam , Her	*01	*11	3*02				*03	*05					SSO		
8042	Supino , Lia													SSP SSO		
8029	Tarigopula , Anil	*01	*11			*01	*05	*03	*05					SSO		
5451	Tilanus , Marcel G	*01	*11	3*02		*01	*05	*03	*05					SSP SSO SBT		
5642	Varnavidou-Nicola	*01	*11	3*PRESENT				*03	*05					SSP		
2847	Wakita , Atsushi	*01	*11											SSO		

Table 3b: Individual laboratory results for B-cell #543-Class II

High resolution													
Center	Investigator	DRB1		DRB3/4/5	DQA1		DQB1		DPA1	DPB1		METHOD	Other Alleles
5488	Adams , Sharon	*01:03	*11:29:01			*05:05	*03:01:01	*05:01:01		*02:01		SSP SSO SBT	
													DPB1*617:01 DPB1*155:01 DPB1*236:01 DPB1*602:01 DPB1*603:01 DPB1*604:01 DPB1*622:01 DPB1*628:01 DPB1*419:01 DPB1*421:01 DPB1*423:01 DPB1*430:01 DPB1*432:01 DPB1*444:01 DPB1*433:01+
5462	Arnold , Paula	NT	NT	NT	NT	NT	NT	NT	NT	*02:01P	*02:01	SSO	
5133	Askar , Medhat	*01:03	*11:29:01	3*02:02:01	*01:01:01:03	*05:05:01	*03:01:01	*05:01:01	*01:03:01:01	*02:01:02		SSP NGS	
4492	Caillat-Zucman , S	*01:03	*11:29:01	3*02:02	*01:01:01	*05:05:01	*03:01:01	*05:01:01	*01:03	*02:01:02		SSP SSO NGS	DPA1*01:13
													DRB3*02:28 DRB3*02:29N DQB1*03:73 DQB1*03:92 DQB1*03:93 DPA1*01:13
774	Cecka , J. Michael	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01	*01:03	*02:01		SSP SSO	
8070	Chang , Uckjin	*01:03	*11:29									SBT	
9916	Charlton , Ronald	*01:03	*11:29:01	3*02:02			*03:01:01	*05:01:01		*02:01:02		SBT	
3224	Chen , Dong-Feng	*01:03	*11:29	3*02:02	NT	NT	*03:01:01G	*05:01	NT	NT	NT	SBT OTHER	
8021	Clark , Brendan	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01	*01:03	*02:01		NGS	
3632	Colombe , Beth W	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01	*01:03	*02:01		SSP SSO	
5130	Costeas , Paul A.	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01		*02:01	*02:01	SSP SSO NGS	
779	Daniel , Claude	*01:03		3*02:02:01	*01:01	*05:05	*03:01	*05:01	*01:03	*02:01	*02:01	SSP SSO	
8086	Du , Keming	*01:03	*11:29		*01:01	*05:05	*03:01	*05:01	*01:03	*02:01	*02:01	SSO SBT	
5214	Eckels/CPMC ,									*02:01G		RT-PCR	
3135	Enczmann , J	*01:03	*11:29	3*02:02			*03:01	*05:01		*02:01	*02:01		
747	Ferrari-Lacraz , S	*01:03	*11:29:01	3*02:02:01	*01:01:01	*05:05:01:01	*03:01:01:03	*05:01:01:03	*01:03:01:01	*02:01:02	*02:01:02	SSP SSO NGS	
762	Fischer , Gottfried	*01:03	*11:29:01	3*02:02:01	*01:01:01	*05:05:01	*03:01:01:03	*05:01:01:03	*01:03:01:01	*02:01:02		NGS	
4079	Fort , Marylise	*01:03								*02:01		SSP	
792	Gandhi , Manish	*01:03	*11:29				*03:01	*05:01		*02:01		SSO SBT	
8043	Gideon , Osnat	*01:03	*11:29		*01:01	*05:05	*03:01	*05:01				SSP SSO	
810	Hamdi , Nuha	*01:03											
2344	Hurley & Hartzma	*01:03	*11:29:01		*01:01:01	*05:05:01:01	*03:01:01:03	*05:01:01:03	*01:03:01:01	*02:01:02	*02:01:02	NGS	DQA1*05:05:01:02
771	Israel , Shoshana	*01:03	*11:29				*03:01	*05:01				SSP SSO	

Table 3b: Individual laboratory results for B-cell #543-Class II

High resolution													
Center	Investigator	DRB1		DRB3/4/5	DQA1		DQB1		DPA1	DPB1		METHOD	Other Alleles
794	Jaatinen , Taina	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01	*01:03	*02:01		SSP SSO SBT RT-PCR	DQA1*01:04 DQA1*01:05 DPA1*01:13 DQA1*05:09 DQA1*05:11
4337	Kim , Tai-Gyu	*01:03	*11:29				*03:01	*05:01		*02:01	*02:01	SSP SBT	
278	Lee , Jar-How	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01	*01:03	*02:01	*02:01		
2400	Liu , Chang	*01:03	*11:29		*01:01	*05:05	*03:01	*05:01		*02:01:02G		SSP SSO SBT	
731	Loewenthal , Ror	*01:03	*11:29:01				*03:01:01G	*05:01:01				SSP SSO SBT	
3966	Permpikul , Vejba	*01:03	*11:29	3*02:02			*03:01	*05:01				SSP	
8001	Rao , Prakash	*01:03	*11:29	3*02:02			*03:01	*05:01		*02:01			
3753	Reed , Elaine F.	*01:03	*11:29:01	3*02:02:01	*01:01:01	*05:05:01	*03:01:01	*05:01:01	*01:03:01	*02:01:02	*02:01:02	NGS	
3519	Renac , Virginie	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01		*02:01	*02:01	SSP NGS	
793	Rubocki , Ronald	*01:03			*01:01	*05:05				*02:01		SSP	
4251	Schiller , Jennifer	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01	*01:03	*02:01	*02:01	SSO NGS	
8042	Supino , Lia	*01:03	*11:29	3*02:02			*03:01	*05:01				SSP SSO	
230	Thoni , Deborah	*01:03	*11:29				*03:01	*05:01		*02:01		SSO SBT	
5451	Tilanus , Marcel G	*01:03	*11:29:01									SSP SSO SBT	
5642	Varnavidou-Nicola	*01:03	*11:29				*03:01	*05:01				SSP	DRB1*01:39N
3511	Zeevi , Adriana	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01		*02:01		SSP SSO	

Table 4: Individual laboratory results for B-cell #543-Class II

Serology									
CTR	DIRNAME	DRB1		DRB3/4/5	DQB1		Others		
910	Hahn,Amy B.	DR103	DR11	DR52		DQ7	DQ1	DR13	

Table 5: Individual laboratory results for B-cell #543-Class I															
		Low resolution						High resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
5488	Adams , Sharon				*44		*07	*02:01:01	*29:02	*18:01:01			*05:01:01	SSP SSO SBT	A*02:01:09 A*02:01:36 C*05:04:01 C*05:36 C*05:43 B*18:25 C*05:01:02 C*05:46 C*05:01:17 C*05:23 B*18:80
5462	Arnold , Paula	*02	*29	*18	*44	*05	*07	NT	NT	NT	NT	NT	NT	SSO	
5133	Askar , Medhat							*02:01:01:01	*29:02:01:01	*18:01:01	*44:02:01:01	*05:01:01:02	*07:01:01:01	SSP NGS	
4492	Caillat-Zucman , S							*02:01:01	*29:02:01:01	*18:01:01	*44:02:01:01	*05:01:01:02	*07:01:01	SSP SSO NGS	
774	Cecka , J. Michael	*02	*29	*18	*44	*05	*07							SSP SSO	
8070	Chang , Uckjin													SBT	
9916	Charlton , Ronald							*02:01:01	*29:02:01	*18:01:01	*44:02	*05:01:01	*07:01:01	SBT	A*02:665, B*18:131
3224	Chen , Dong-Feng							*02:01:01G	*29:02	*18:01:01G	*44:02	*05:01:01G	*07:01:01G	SBT OTHER	
8021	Clark , Brendan							*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	NGS	
3632	Colombe , Beth W													SSP SSO	
5130	Costeas , Paul A.	*02	*29	*18	*44	*05	*07	*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSP SSO NGS	A*29:03
779	Daniel , Claude	*02	*29	*18	*44	*05	*07							SSP SSO	
5219	Daniel , Dolly	*02	*29	*18	*44	*05	*07							SSO	
87	Di Paola , Nicholas	*02	*29	*18	*44	*05	*07							RT-PCR	
8086	Du , Keming							*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSO SBT	
5214	Eckels/CPMC ,	*02	*29	*18	*44	*05	*07							RT-PCR	
3135	Enczmann , J							*02:01	*29:02	*18:01	*44:02	*05:01	*07:01		A*02:01L C*07:06 C*07:18
747	Ferrari-Lacraz , Sy	*02	*29	*18	*44	*05	*07	*02:01:01:01	*29:02:01:01	*18:01:01	*44:02:01:01	*05:01:01:02	*07:01:01:01	SSP SSO NGS	
762	Fischer , Gottfried													NGS	
4079	Fort , Marylise													SSP	
792	Gandhi , Manish	*02	*29	*18	*44	*05	*07	*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSO SBT	A*02:01:01:02L B*44:02:01:02S
8043	Gideoni , Osnat													SSP SSO	
810	Hamdi , Nuha	*02	*29	*18	*44	*05	*07								
8087	Hernandez Rosale	*02	*29	*18	*44	*05	*07							SSO	
2344	Hurley & Hartzmar							*02:01:01:01	*29:02:01:01	*18:01:01:02	*44:02:01:01	*05:01:01:02	*07:01:01:01	NGS	
771	Israel , Shoshana													SSP SSO	
794	Jaatinen , Taina	*02	*29	*18	*44	*05	*07	*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSP SSO SBT RT-PCR	C*07:06 C*07:419 C*07:18 C*07:343
4337	Kim , Tai-Gyu							*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSP SBT	
725	Lardy , N.M.													SSO	
278	Lee , Jar-How	*02	*29	*18	*44	*05	*07	*02:01	*29:02	*18:01	*44:02	*05:01	*07:01		
6649	Lim , Young Ae													SSP	
2400	Liu , Chang	*02	*29	*18	*44	*05	*07	*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSP SSO SBT	
731	Loewenthal , Ron													SSP SSO SBT	
206	McAlack , Robert	*02	*29	*18	*44	*05	*07								
735	Moussa , Omar	*02	*29	*18	*44	*05	*07							SSO	

Table 5: Individual laboratory results for B-cell #543-Class I															
		Low resolution						High resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
3966	Permpikul , Vejbæk	*02	*29	*18	*44	*05	*07							SSP	
8001	Rao , Prakash														
3753	Reed , Elaine F.							*02:01:01	*29:02:01	*18:01:01	*44:02:01	*05:01:01	*07:01:01	NGS	
3519	Renac , Virginie	*02	*29	*18	*44	*05	*07	*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSP NGS	
793	Rubocki , Ronald	*02	*29	*18	*44	*05	*07							SSP	
4251	Schiller , Jennifer	*02	*29	*18	*44	*05	*07	*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSO NGS	
8068	Shanmugam , Her	*02	*29	*18	*44	*05	*07							SSO	
8042	Supino , Lia							*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSP SSO	
8029	Tarigopula , Anil	*02	*29	*18	*44	*05	*07							SSO	
230	Thoni , Deborah							*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSO SBT	
5451	Tilanus , Marcel G													SSP SSO SBT	
5642	Varnavidou-Nicola													SSP	
2847	Wakita , Atsushi	*02	*29	*18	*44	*05	*07							SSO	
3511	Zeevi , Adriana							*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSP SSO	

Table 6a: Individual laboratory results for B-cell #544-Class II

		Low resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5488	Adams , Sharon			3*02	4*01									SSP SSO SBT	
5462	Arnold , Paula	*07	*11	3*02	4*01	*02	*05	*02	*03	*01		*02(DP201)	*04(DP401)	SSO	
774	Cecka , J. Michael	*07	*11	3*02	4*01	*02	*05	*02	*03	*01		*02(DP201)	*04(DP401)	SSP SSO	
3632	Colombe , Beth W	*07	*11	3*02	4*01	*02	*05	*02	*03	*01		*02	*04	SSP SSO	
5130	Costeas , Paul A.	*07	*11	3*02	4*01	*02	*05	*02	*03			*02	*04	SSP SSO NGS	
779	Daniel , Claude	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02(DP201)	*04(DP401)	SSP SSO	
5219	Daniel , Dolly	*07	*11			*02	*05	*02	*03					SSO	
87	Di Paola , Nicholas	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02(DP201)	*04(DP401)	RT-PCR	
5214	Eckels/CPMC ,	*07	*11	3*02	4*01	*02	*05	*02	*03(DQ7	*01		*02(DP201)	*04(DP401)	RT-PCR	
747	Ferrari-Lacraz , S	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02	*04	SSP SSO NGS	
4079	Fort , Marylise	*07	*11					*02	*03					SSP	
792	Gandhi , Manish	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02	*04	SSO SBT	
8043	Gideoni , Osnat	*07	*11			*02	*05	*02	*03					SSP SSO	
810	Hamdi , Nuha	*07	*11			*02	*05	*02	*03						
8087	Hernandez Rosale	*07	*11			*02	*05	*02	*03					SSO	
771	Israel , Shoshana	*07	*11			*02	*05	*02	*03					SSP SSO	
														SSP SSO SBT	
794	Jaatinen , Taina	*07	*11	3*02	4*01	*02	*05	*02	*03	*01		*02	*04	RT-PCR	
725	Lardy , N.M.	*07	*11	3*PRESENT	4*01	*02	*05	*02	*03					SSO	
278	Lee , Jar-How	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02	*04		
6649	Lim , Young Ae	*07	*11	3*PRESENT	4*PRESENT									SSP	
2400	Liu , Chang	*07	*11	3*02	4*01			*02	*03			*02	*04	SSP SSO SBT	
731	Loewenthal , Ror	*07	*11			*02	*05	*02	*03					SSP SSO SBT	
206	McAlack , Robert	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02	*04		
735	Moussa , Omar	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02(DP201)	*04(DP401)	SSO	
3966	Permpikul , Vejba													SSP	
8001	Rao , Prakash	*07	*11	3*02	4*01	*02	*05	*02	*03						
3519	Renac , Virginie	*07	*11					*02	*03			*02(DP201)	*04(DP401)	SSP NGS	
793	Rubocki , Ronald	*07	*11	3*02	4*PRESENT	*02	*05	*02	*03			*02(DP201)	*04(DP401)	SSP	
4251	Schiller , Jennifer	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02(DP201)	*04(DP401)	SSO NGS	
8068	Shanmugam , He	*07	*11	3*02	4*01			*02	*03					SSO	
8042	Supino , Lia													SSP SSO	
8029	Tarigopula , Anil	*07	*11			*02	*05	*02	*03					SSO	
5451	Tilanus , Marcel G	*07	*11	3*02	4*01	*02	*05	*02	*03					SSP SSO SBT	
5642	Varnavidou-Nicola	*07	*11	3*PRESENT	4*PRESENT			*02	*03					SSP	
2847	Wakita , Atsushi	*07	*11											SSO	

Table 6b: Individual laboratory results for B-cell #544-Class II

		Low resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5488	Adams , Sharo	*07:01:01	*11:19:01			*02:01	*05:05	*02:02:01	*03:01:01			*02:01	*04:01:01	SSP SSO SBT	
															DPB1*452:01 DPB1*457:01 DPB1*467:01 DPB1*469:01 DPB1*502:01 DPB1*510:01 DPB1*511:01 DPB1*513:01 DPB1*528:01 DPB1*418:01 DPB1*426:01 DPB1*428:01 DPB1*434:01 DPB1*453:01 DPB1*454:01 DPB1*455:01N DPB1*459:01 DPB1*464:01 DPB1*468:01 DPB1*475:01 DPB1*476:01+
5462	Arnold , Paula	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	*02:01	*04:01	SSO	
5133	Askar , Medha	*07:01:01	*11:19:01	3*02:02:01	4*01:03:01	*02:01:01:01	*05:05:01:02	*02:02:01	*03:01:01	*01:03		*02:01:02	*04:01:01	SSP NGS	DPA1*01:13
4492	Caillat-Zucmar	*07:01:01	*11:19:01	3*02:02	4*01:03	*02:01:01	*05:05:01	*02:02:01	*03:01:01	*01:03	*01:03	*02:01:02	*04:01:01	SSP SSO NGS	DPA1*01:13
															DRB1*07:29 DRB1*07:30 DRB1*07:31 DRB1*07:32 DRB1*07:33 DRB1*07:35 DRB3*02:28 DRB3*02:29N DRB4*01:09 DRB4*01:10 DQB1*02:11 DQB1*02:12 DQB1*02:26 DQB1*03:37 DQB1*03:92 DQB1*03:93
774	Cecka , J. Mich	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01	*01:03		*02:01	*04:01	SSP SSO	
8070	Chang , Uckjin	*07:01	*11:19											SBT	
9916	Charlton , Ron	*07:01:01	*11:19:01	3*02:02	4*01:03			*02:02:01	*03:01:01			*02:01:02	*04:01:01	SBT	
3224	Chen , Dong-F	*07:01:01G	*11:19	3*02:02:01G	4*01:01:01G	NT	NT	*02:02	*03:01:01G	NT	NT	NT	NT	SBT OTHER	
8021	Clark , Brenda	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01	*01:03		*02:01	*04:01	NGS	
3632	Colombe , Bett	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01	*01:03		*02:01	*04:01	SSP SSO	
5130	Costeas , Paul	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01			*02:01	*04:01	SSP SSO NGS	
779	Daniel , Claude					*02:01	*05:05	*02:02	*03:01	*01:03	*01:03	*02:01	*04:01	SSP SSO	
8086	Du , Keming	*07:01	*11:19			*02:01	*05:05	*02:02	*03:01	*01:03	*01:03	*02:01	*04:01	SSO SBT	
5214	Eckels/CPMC											*02:01G	*04:01G	RT-PCR	

Table 6b: Individual laboratory results for B-cell #544-Class II

		Low resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
3135	Enczmamm , J	*07:01	*11:19	3*02:02	4*01:03			*02:02	*03:01			*02:01	*04:01		
747	Ferrari-Lacraz	*07:01:01:01	*11:19:01	3*02:02:01:02	4*01:03:01	*02:01:01:01	*05:05:01:01	*02:02:01	*03:01:01	*01:03:01:01	*01:03:01:02	*02:01:02	*04:01:01:02	SSP SSO NGS	DQB1*03:01:01:03
762	Fischer , Gottfr	*07:01:01:01	*11:19:01	3*02:02:01	4*01:03:01	*02:01:01:01	*05:05:01:01	*02:02:01	*03:01:01:03	*01:03:01:01	*01:03:01:02	*02:01:02	*04:01:01:01	NGS	
4079	Fort , Marylise	*07:01	*11:19					*02:02	*03:01			*02:01	*04:01	SSP	
792	Gandhi , Manis	*07:01	*11:19					*02:02	*03:01			*02:01	*04:01	SSO SBT	
8043	Gideoni , Osn	*07:01	*11:19			*02:01	*05:05	*02:02	*03:01					SSP SSO	
810	Hamdi , Nuha														
2344	Hurley & Hartz	*07:01:01:01	*11:19:01			*02:01:01	*05:05:01	*02:02:01	*03:01:01:03	*01:03:01:01	*01:03:01:02	*02:01:02	*04:01:01:01	NGS	DPB1*04:01:01:02
771	Israel , Shosha	*07:01	*11:19					*02:02	*03:01					SSP SSO	
															DQA1*05:09 DQA1*05:11 DPB1*464:01 DRB1*07:34 DPB1*459:01 DPA1*01:13
794	Jaatinen , Tain	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01	*01:03		*02:01	*04:01	SSP SSO SBT RT-PCR	
4337	Kim , Tai-Gyu	*07:01	*11:19					*02:02	*03:01			*02:01	*04:01	SSP SBT	
278	Lee , Jar-How	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01	*01:03	*01:03	*02:01	*04:01		
2400	Liu , Chang	*07:01	*11:19			*02:01	*05:05	*02:02	*03:01			*02:01:02G	*04:01:01G	SSP SSO SBT	
731	Loewenthal , F	*07:01:01G	*11:19:01					*02:02:01	*03:01:01G					SSP SSO SBT	
3966	Permpikul , Ve	*07:01	*11:19	3*02:02	4*01:03			*02:02	*03:01					SSP	
8001	Rao , Prakash	*07:01	*11:29	3*02:02	4*01:03			*02:02	*03:01			*02:01	*04:01		
3753	Reed , Elaine F	*07:01:01	*11:19:01	3*02:02:01	4*01:03:01	*02:01:01	*05:05:01	*02:02:01	*03:01:01	*01:03:01	*01:03:01	*02:01:02	*04:01:01	NGS	
3519	Renac , Virginie	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01			*02:01	*04:01	SSP NGS	
793	Rubocki , Ron					*02:01	*05:05					*02:01	*04:01:01G	SSP	
4251	Schiller , Jenni	*07:01	*11:19	3*02:02	4*01:01:01G	*02:01	*05:05	*02:02	*03:01	*01:03	*01:03	*02:01	*04:01	SSO NGS	
8042	Supino , Lia	*07:01	*11:19	3*02:02	4*01:03			*02:02	*03:01					SSP SSO	
230	Thoni , Debor	*07:01	*11:19					*02:02	*03:01			*02:01	*04:01	SSO SBT	
5451	Tilanus , Marce	*07:01:01	*11:19:01											SSP SSO SBT	
5642	Varnavidou-Nic	*07:01	*11:19					*02:02	*03:01					SSP	
3511	Zeevi , Adriana	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01			*02:01	*04:01	SSP SSO	

Table 7: Individual laboratory results for B-cell #544-Class II

Serology									
CTR	DIRNAME	DRB1		DRB3/4/5		DQB1		Others	
910	Hahn,Amy B.	DR7	DR11	DR52	DR53		DQ2	DQ7	DR13

Table 8: Individual laboratory results for B-cell #544-Class I

		Low resolution						High resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
															A*02:01:36 A*02:01:09 A*24:02:02 A*24:353 A*24:02:06 B*13:18 B*13:14 B*13:16 C*06:11 C*06:136 C*07:02:04 C*07:02:55 C*07:76:01 C*07:31:01 B*07:26 B*07:161N B*07:86 B*07:261 C*06:83 C*06:02:23 C*06:02:27
5488	Adams , Sharon							*02:01:01	*24:02:01	*07:02:01	*13:02:01	*06:02:01	*07:02:01	SSP SSO SBT	
5462	Arnold , Paula	*02	*24	*07	*13	*06	*07	NT	NT	NT	NT	NT	NT	SSO	
5133	Askar , Medhat							*02:01:01	*24:02:01	*07:02:01	*13:02:01	*06:02:01:01	*07:02:01	SSP NGS	
4492	Caillat-Zucman ,							*02:01:01	*24:02:01:01	*07:02:01	*13:02:01	*06:02:01:01	*07:02:01	SSP SSO NGS	
774	Cecka , J. Michael	*02	*24	*07	*13	*06	*07	SSP SSO						SSP SSO	
8070	Chang , Uckjin													SBT	
9916	Charlton , Ronald							*02:01:01	*24:02	*07:02	*13:02:01	*06:02:01	*07:02:01	SBT	A*02:665 A*24:353
3224	Chen , Dong-Fen							*02:01:01G	*24:02:01G	*07:02:01G	*13:02	*06:02:01G	*07:02:01G	SBT OTHER	
8021	Clark , Brendan							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	NGS	
3632	Colombe , Beth V													SSP SSO	
5130	Costeas , Paul A.	*02	*24	*07	*13	*06	*07	*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSP SSO NGS	A*02:01L
779	Daniel , Claude	*02	*24	*07	*13	*06	*07							SSP SSO	
8086	Du , Keming							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSO SBT	
5219	Daniel , Dolly	*02	*24	*07	*13	*06	*07							SSO	
87	Di Paola , Nicholas	*02	*24	*07	*13	*06	*07							RT-PCR	
5214	Eckels/CPMC ,	*02	*24	*07	*13	*06	*07							RT-PCR	
3135	Enczmann , J							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02		A*02:01L
747	Ferrari-Lacraz , S	*02	*24	*07	*13	*06	*07	*02:01:01:01	*24:02:01:01	*07:02:01	*13:02:01	*06:02:01:01	*07:02:01:03	SSP SSO NGS	
762	Fischer , Gottfried													NGS	
4079	Fort , Marylise													SSP	
792	Gandhi , Manish	*02	*24	*07	*13	*06	*07	*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSO SBT	A*02:01:01:02L
8043	Gideoni , Osnat													SSP SSO	
810	Hamdi , Nuha	*02	*24	*07	*13	*06	*07								
8087	Hernandez Rosal	*02	*24	*07	*13	*06	*07							SSO	
2344	Hurley & Hartzma							*02:01:01:01	*24:02:01:01	*07:02:01	*13:02:01	*06:02:01:01	*07:02:01:03	NGS	
771	Israel , Shoshana													SSP SSO	
794	Jaatinen , Taina	*02	*24	*07	*13	*06	*07	*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSP SSO SBT RT-PCR	C*06:83 B*07:61 B*07:161N C*07:50 C*07:349
4337	Kim , Tai-Gyu							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSP SBT	
725	Lardy , N.M.													SSO	
278	Lee , Jar-How	*02	*24	*07	*13	*06	*07	*02:01	*24:02	*07:02	*13:02	*06:02	*07:02		
6649	Lim , Young Ae													SSP	
2400	Liu , Chang	*02	*24	*07	*13	*06	*07	*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSP SSO SBT	

Table 8: Individual laboratory results for B-cell #544-Class I

		Low resolution						High resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
731	Loewenthal , Ro													SSP SSO SBT	
206	McAlack , Robert	*02	*24	*07	*13	*06	*07								
735	Moussa , Omar	*02	*24	*07	*13	*06	*07							SSO	
3966	Permpikul , Vejba	*02	*24	*07	*13	*06	*07							SSP	
8001	Rao , Prakash														
3519	Renac , Virginie	*02	*24	*07	*13	*06	*07							SSP NGS	
3753	Reed , Elaine F.							*02:01:01	*24:02:01	*07:02:01	*13:02:01	*06:02:01	*07:02:01	NGS	
3519	Renac , Virginie							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSP NGS	
793	Rubocki , Ronald	*02	*24	*07	*13	*06	*07							SSP	
4251	Schiller , Jennifer	*02	*24	*07	*13	*06	*07	*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSO NGS	
8068	Shanmugam , He	*02	*24	*07	*13	*06	*07							SSO	
8042	Supino , Lia							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSP SSO	
8029	Tarigopula , Anil	*02	*24	*07	*13	*06	*07							SSO	
230	Thoni , Deborah							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSO SBT	
5451	Tilanus , Marcel C													SSP SSO SBT	
5642	Varnavidou-Nicol													SSP	
2847	Wakita , Atsushi	*02	*24	*07	*13	*06	*07							SSO	
3511	Zeevi , Adriana							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSP SSO	