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HLA Typing Summary Report

Five whole blood samples were sent to 28 laboratories. HLA typing results were obtained for Serology typing, Low resolution DNA typing with translation to HLA Antigens, and High Resolution typing. Grading was provided for Serology Typing, Antigen Level typing by DNA methods, and High resolution typing. Consensus was based on 80% concordance. Serology only laboratories were only graded for antigens which have a serological equivalent. Laboratories also have the option to type for DQA1, DPB1 and DPA1. Inter-laboratory results are provided for these results for self-assessment.

Consensus Results - March 2011 / Ev01

Cell 497

Locus	Antigen	% Cons	Hi Res	% Cons	Lo Res	% Cons	Serology	% Cons
A	1	100	01:01	100	01	100	1	100
A	29	100	29:02	100	29	100	29	100
B	8	100	08:01	100	08	100	8	100
B	44	100	44:03	100	44	100	44	100
Bw4	P	100	n/a	0	P	100	P	100
Bw6	P	100	n/a	0	P	100	P	100
C	7	100	07:01	100	07	100	7	100
C	16	93	16:01	100	16	100	BL	100
DR	7	100	03:01	100	03	96	7	100
DR	17	100	07:01	100	07	100	17	94
DRw	52	100	DRB3=01:01	100	DRB3=P	100	52	100
			DRB4=01:01	100	DRB4=P	100		
			DRB5=NT	100	DRB5=N	100		
DRw	53	100	DRB3=BL	100			53	100
			DRB4=BL	100				
			DRB5=NT	100				
DQ	2	100	02:01	100	02	100	2	100
DQ	BL	68	02:02	100	BL	69	BL	100
#Labs	28		9		26		17	

Comments:

Consensus Results - March 2011 / Ev01

Cell 498

Locus	Antigen	% Cons	Hi Res	% Cons	Lo Res	% Cons	Serology	% Cons
A	1	100	01:01	100	01	100	1	100
A	23	100	23:01	100	23	100	23	100
B	7	100	07:02	100	07	100	7	100
B	BL	83	BL	77	BL	85	BL	100
Bw4	N	100	n/a	0	N	100	N	100
Bw6	P	100	n/a	0	P	100	P	100
C	4	100	04:01	100	04	96	4	100
C	7	96	07:02	100	07	100	7	82
DR	9	100	09:01	100	09	100	9	100
DR	11	100	11:02	100	11	100	11	100
DRw	52	100	DRB3=02:02	100	DRB3=P	100	52	100
			DRB4=01:01	100	DRB4=P	100		
			DRB5=NT	100	DRB5=N	100		
DRw	53	100	DRB3=BL	100			53	100
			DRB4=BL	100				
			DRB5=NT	100				
DQ	2	100	02:02	100	02	100	2	100
DQ	7	96	03:19	100	03	96	7	100
#Labs	28		9		26		17	

Comments: Excellent concordance; All antigens and alleles reached consensus. DRB1*11:02; DQB1*03:19 had 100% concordance at high resolution.

Consensus Results - March 2011 / Ev01

Cell 499

Locus	Antigen	% Cons	Hi Res	% Cons	Lo Res	% Cons	Serology	% Cons
A	66	100	66:02	100	66	100	66	94
A	68	100	68:01	100	68	100	68(28)	100
B	35	100	35:03	100	35	100	35	100
B	57	100	57:03	100	57	100	57	100
Bw4	P	100	n/a	0	P	100	P	100
Bw6	P	100	n/a	0	P	100	P	100
C	4	100	04:01	100	04	100	4	100
C	18	93	18:02	89	18	96	BL	88
DR	1	100	01:01	100	01	100	1	100
DR	16	100	16:02	100	16	100	16	100
DRw	51	100	DRB3=NT	100	DRB3=N	100	51	100
			DRB4=NT	100	DRB4=N	100		
			DRB5=02:02	100	DRB5=P	100		
DRw	BL	93	DRB3=NT	100			BL	100
			DRB4=NT	100				
			DRB5=BL	100				
DQ	5	93	05:01	100	05	100	5(1)	100
DQ	BL	68	05:02	100	BL	65	BL	94
#Labs	28		9		26		17	

Comments: Excellent concordance among laboratories and between methods. Interesting alleles included A*66:02; B*35:03, C*18:02 and DRB1*16:02; All had 100% consensus except C*18:02 *89%)

Consensus Results - March 2011 / Ev01

Cell 500

Locus	Antigen	% Cons	Hi Res	% Cons	Lo Res	% Cons	Serology	% Cons
A	2	100	02:01	100	02	100	2	100
A	11	100	11:01	100	11	100	11	100
B	7	100	07:02	100	07	100	7	100
B	39	100	39:06	100	39	100	39	100
Bw4	N	100	n/a	0	N	100	N	100
Bw6	P	100	n/a	0	P	100	P	100
C	7	100	07:02	100	07	100	7	100
C	BL	79	BL	77	BL	85	BL	94
DR	8	100	08:01	100	08	100	8	100
DR	15	100	15:01	100	15	100	15	100
DRw	51	100	DRB3=NT	100	DRB3=N	100	51	100
			DRB4=NT	100	DRB4=N	100		
			DRB5=01:01	100	DRB5=P	100		
DRw	BL	97	DRB3=NT	100			BL	100
			DRB4=NT	100				
			DRB5=BL	100				
DQ	4	96	04:02	100	04	96	6(1)	100
DQ	6	96	06:02	100	06	100	4	94
#Labs	28		9		26		17	

Comments:

Consensus Results - March 2011 / Ev01

Cell 501

Locus	Antigen	% Cons	Hi Res	% Cons	Lo Res	% Cons	Serology	% Cons
A	2	100	02:01	100	02	100	2	100
A	29	100	29:02	100	29	100	29	100
B	44	100	14:01	100	14	96	44	100
B	64	90	44:03	100	44	100	64(14)	100
Bw4	P	100	n/a	0	P	100	P	100
Bw6	P	100	n/a	0	P	100	P	100
C	4	100	04:01	100	04	100	4	100
C	8	97	08:02	100	08	100	8	82
DR	7	100	07:01	100	07	100	7	100
DR	BL	83	BL	87	BL	85	BL	100
DRw	53	100	DRB3=NT	100	DRB3=N	100	53	100
			DRB4=01:01	100	DRB4=P	100		
			DRB5=NT	100	DRB5=N	100		
DRw	BL	90	DRB3=NT	100			BL	100
			DRB4=BL	100				
			DRB5=NT	100				
DQ	2	100	02:02	100	02	100	2	100
DQ	BL	83	BL	88	BL	85	BL	100
#Labs	27		8		26		17	

Comments: : Excellent concordance. Cw8 presented a challenge for serology typing with only 82% consensus.