

# CELL EXCHANGE #405

## JUNE 29, 2018

Cells	1617-1620
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The results for Cell Exchange #405 are summarized in Table 9 and Table 10. Molecular typing results for individual laboratories are listed in Tables 11 - 14 for each sample and individual serological results for each sample are

listed in Table 15. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

**Cell 1617.** The reported consensus type for this sample from a Hispanic donor is A\*03:01(A3)-A\*66:01(A66)-B\*07:02(B7)-B\*49:01(B49)-C\*07:01(Cw7)-C\*07:02. A\*03:01-B\*07:02-C\*07:02 is one likely association present in this cell. It is the 3<sup>rd</sup> most common association observed in Hispanics, with HF=0.01981. The other association likely present is A\*66:01-B\*49:01-C\*07:01, with HF=0.00025, in Hispanics.

A\*03:01, A\*66:01, B\*07:02, B\*49:01, C\*07:01, and C\*07:02 were each assigned by 100% of labs reporting at high resolution. A\*03:01:01:01, A\*66:01:01:01, B\*07:02:01:01, B\*49:01:01, C\*07:01:01, and C\*07:02:01 were each reported by 4 labs. A3 (100%), A66 (83%), B7 (100%), B49 (100%), and Cw7 (42%) were reported by serology.

**Cell 1618.** The reported consensus type for this sample from a Caucasian donor is A\*24:02(A24)-A\*25:01(A25)-B\*07:02(B7)-B\*14:02(B14)-C\*07:02(Cw7)-C\*08:02(Cw8). Likely associations present in this cell are A\*25:01-B\*07:02-C\*07:02 and A\*24:02-B\*14:02-C\*08:02, with respective HF=0.00086 and 0.00114, in Caucasians.

A\*24:02, A\*25:01, B\*07:02, B\*14:02, C\*07:02, and C\*08:02 were each assigned in complete consensus, with 4 labs assigning A\*24:02:01, A\*25:01:01, B\*07:02:01:01, B\*14:02:01:01, C\*07:02:01:03, and C\*08:02:01:01. A24 (100%), A25 (100%), B7 (100%), B14 (65%) (67%), Cw7 (42%) and Cw8 (42%) were assigned by serology.

**Cell 1619.** The reported consensus type for this sample from an African American donor is A\*01:01(A1)-A\*34:02(A34)-B\*08:01(B8)-B\*81:01(B81)-C\*07:01(Cw7)-C\*18:01. This cell is the parent of a previous exchange cell, cell 1585 (same as cells 1550 and 1527). Parent and child share the A\*34:02-B\*81:01-C\*18:01 haplotype present in this cell. The other haplotype present is A\*01:01-B\*08:01-C\*07:01.

This cell has been examined previously as cells 1549 (2015), 1525 (2014), and 1481 (2013). In this present retyping, A\*01:01, A\*34:02, B\*08:01, B\*81:01, C\*07:01, and C\*18:01 were well typed by 100% of labs reporting at high resolution. The serological types were reported as A1 (100%), A34 (82%), B8 (100%), B81 (82%), and Cw7 (36%). Two labs assigned B7 instead of B81.

**Cell 1620.** The reported consensus type for this sample from a donor of mixed African American and Hispanic heritage is A\*02:01(A2)-A\*36:01(A36)-B\*53:01(B53)-B\*58:01(B58)-C\*03:02(Cw3)-C\*04:01(Cw4). One likely association present in this cell is A\*02:01-B\*58:01-C\*03:02, observed in Hispanics with HF=0.00102. The other likely association present is A\*36:01-B\*53:01-C\*04:01, the 4<sup>th</sup> most common association observed in African Americans, with HF=0.01476.

A\*02:01, A\*36:01, B\*53:01, B\*58:01, C\*03:02, and C\*04:01 were each assigned in complete consensus by labs reporting at high resolution. A2 (91%), A36 (82%), B53 (91%), Cw3 (18%) and Cw4 (36%) were the assigned serological types.

**NEXT MAILING DATE: August 8, 2018**

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**Table 9. Summary of the 405<sup>th</sup> Cell Exchange (Cell #1617-1620)**

**DNA typing**

<b>Cell 1617</b>	
19 low/14 high labs - A	%(n)
A*03:01:01:01	29(4)
A*03:01:01G	7 (1)
A*03:01	64(9)
A*03	100(19)
19 low/14 high labs - A	%(n)
A*66:01:01:01	29(4)
A*66:01:01	7 (1)
A*66:01	64(9)
A*66	100(19)
19 low/14 high labs - B	%(n)
B*07:02:01:01	29(4)
B*07:02:01G	14(2)
B*07:02	57(8)
B*07	100(19)
19 low/14 high labs - B	%(n)
B*49:01:01	29(4)
B*49:01:01G	7 (1)
B*49:01	64(9)
B*49	100(19)
17 low/14 high Labs - C	%(n)
C*07:01:01:01	14(2)
C*07:01:01	14(2)
C*07:01:01G	14(2)
C*07:01	57(8)
C*07	100(17)
14 high Labs - C	%(n)
C*07:02:01:03	21(3)
C*07:02:01	7 (1)
C*07:02:01G	14(2)
C*07:02	57(8)

<b>Cell 1618</b>	
19 low/14 high labs - A	%(n)
A*24:02:01:01	21(3)
A*24:02:01	7 (1)
A*24:02:01G	7 (1)
A*24:02P	7 (1)
A*24:02	57(8)
A*24	100(19)
19 low/14 high labs - A	%(n)
A*25:01:01:01	14(2)
A*25:01:01	14(2)
A*25:01:01G	7 (1)
A*25:01	64(9)
A*25	100(19)
19 low/14 high labs - B	%(n)
B*07:02:01:01	29(4)
B*07:02:01G	14(2)
B*07:02	57(8)
B*07	100(19)
19 low/16 high labs - B	%(n)
B*14:02:01:01	25(4)
B*14:02	75(12)
B*14	100(19)
17 low/14 high Labs - C	%(n)
C*07:02:01:03	29(4)
C*07:02:01G	14(2)
C*07:02	57(8)
C*07	100(17)
17 low/14 high Labs - C	%(n)
C*08:02:01:01	29(4)
C*08:02:01G	7 (1)
C*08:02	64(9)
C*08	100(17)

<b>Cell 1619</b>	
17 low/12 high labs - A	%(n)
A*01:01:01:01	25(3)
A*01:01:01G	17(2)
A*01:01	58(7)
A*01	100(17)
17 low/12 high labs - A	%(n)
A*34:02:01	33(4)
A*34:02	67(7)
A*34	100(17)
17 low/12 high labs -B	%(n)
B*08:01:01:01	17(2)
B*08:01:01	8 (1)
B*08:01:01G	17(2)
B*08:01	58(7)
B*08	200(17)
17 low/12 high labs -B	%(n)
B*81:01:01G	17(2)
B*81:01	83(10)
B*81	100(17)
15 low/12 high Labs - C	%(n)
C*07:01:01:01	17(2)
C*07:01:01	8 (1)
C*07:01:01G	17(2)
C*07:01	58(7)
C*07	100(15)
15 low/12 high Labs - C	%(n)
C*18:01:01G	17(2)
C*18:01	83(10)
C*18	100(15)

<b>Cell 1620</b>	
18 low/12 high labs - A	%(n)
A*02:01:01	25(3)
A*02:01:01G	17(2)
A*02:01	58(7)
A*02	100(18)
18 low/13 high labs - A	%(n)
A*36:01	100(13)
A*36	100(18)
18 low/12 high labs - B	%(n)
B*53:01:01	33(4)
B*53:01	67(8)
B*53	100(18)
18 low/12 high labs - B	%(n)
B*58:01:01:03	8 (1)
B*58:01:01	25(3)
B*58:01	67(8)
B*58	100(18)
16 low/13 high labs - C	%(n)
C*03:02:02:01	8 (1)
C*03:02:02	15(2)
C*03:02:01G	8 (1)
C*03:02	69(9)
C*03	100(16)
16 low/12 high labs - C	%(n)
C*04:01:01:01	8 (1)
C*04:01:01	17(2)
C*04:01:01G	8 (1)
C*04:01P	8 (1)
C*04:01	58(7)
C*04	100(16)

**Table 10. Summary of the 405<sup>th</sup> Cell Exchange (Cell #1617 - 1620)**

**Serological typing**

<b>(Hispanic)</b>	
<b>Cell 1617</b>	
<b>(12 Samples Typed)</b>	
A3	100.0%
	[100.0%]
A66	83.3%
A10	16.7%
	[100.0%]
B7	100.0%
	[100.0%]
B49	100.0%
	[100.0%]
Cw7	41.7%
Bw4	75.0%
Bw6	83.3%
<b>Others Found</b>	
B73	8.3%

<b>(Caucasian)</b>	
<b>Cell 1618</b>	
<b>(12 Samples Typed)</b>	
A24	100.0%
	[100.0%]
A25	100.0%
	[100.0%]
B7	100.0%
	[100.0%]
B14	66.7%
B65	33.3%
	[100.0%]
Cw7	41.7%
Cw8	41.7%
Bw6	83.3%
<b>Others Found</b>	
Bw4	33.3%
B73	8.3%

<b>(Black)</b>	
<b>Cell 1619</b>	
<b>(11 Samples Typed)</b>	
A1	100.0%
A34	81.8%
A10	9.1%
	[90.9%]
B8	100.0%
B81	81.8%
	[81.8%]
Cw7	36.4%
Bw6	81.8%
<b>Others Found</b>	
B7	18.2%
Cw18	9.1%
Cw4	9.1%
Cw17	9.1%
B73	9.1%

<b>(Mixed)</b>	
<b>Cell 1620</b>	
<b>(11 Samples Typed)</b>	
A2	90.9%
	[90.9%]
A36	81.8%
B53	90.9%
B58	90.9%
B17	9.1%
	[100.0%]
Cw3	9.1%
Cw10	9.1%
	[18.2%]
Cw4	36.4%
	[36.4%]
Bw4	81.8%
<b>Others Found</b>	
B17	9.1%
Cw8	9.1%
A1	9.1%

**Table 11. Individual laboratory results for Cell #1617**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*03	*66	*07	*49	*07	*07	*03:01	*66:01	*07:02	*49:01	*07:01	*07:02		
725	*03	*66	*07	*49	*07								SSO	
731	*03	*66	*07	*49	*07	*07	*03:01:01G	*66:01:01	*07:02:01G	*49:01:01G	*07:01:01G	*07:02:01G	SSO SBT	A*03:24 B*07:24 C*07:27 B*49:07 C*07:19
745							*03:01:01:01	*66:01:01:01	*07:02:01:01	*49:01:01	*07:01:01	*07:02:01:03	SBT NGS	
747	*03	*66	*07	*49	*07	*07	*03:01:01:01	*66:01:01:01	*07:02:01:01	*49:01:01	*07:01:01:01	*07:02:01:03	SSP SSO NGS	
762							*03:01:01:01	*66:01:01:01	*07:02:01:01	*49:01:01	*07:01:01:01	*07:02:01:03	SSP SSO NGS	
771	*03	*66	*07	*49	*07		*03:01	*66:01	*07:02	*49:01	*07:01	*07:02	SSP SSO	
774	*03	*66	*07	*49	*07	*07							SSP SSO	
779	*03	*66	*07	*49	*07	*07							SSP SSO	
3186	*03	*66	*07	*49	*07	*07							SSO	
														B*07:61 B*07:161N C*07:50 C*07:349 C*07:06 C*07:18 C*07:343 C*07:419 C*07:458 C*07:591 B*07:271 B*07:294 B*07:298 C*07:566 C*07:592 C*07:594 C*07:595 C*07:596 C*07:610
3545	*03	*66	*07	*49	*07	*07	*03:01	*66:01	*07:02	*49:01	*07:01	*07:02	SSO SBT	
3625	*03	*66	*07	*49	*07	*07	*03:01	*66:01	*07:02	*49:01	*07:01	*07:02		B*07:61 B*07:161N
3632	*03	*66	*07	*49	*07	*07	*03:01	*66:01	*07:02	*49:01	*07:01	*07:02	SSP SSO	
3766	*03	*66	*07	*49										
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*03	*66	*07	*49	*07	*07	*03:01	*66:01	*07:02:01G	*49:01	*07:01:01G	*07:02:01G	SSO SBT	
5133							*03:01:01:01	*66:01:01:01	*07:02:01:01	*49:01:01	*07:01:01	*07:02:01	NGS	
5214	*03	*66	*07	*49	*07								SSO	
5462	*03	*66	*07	*49	*07	*07	*03:01	*66:01	*07:02	*49:01	*07:01	*07:02	SSO NGS	
5642	*03	*66	*07	*49	*07								SSP	
6649	*03	*66	*07	*49									SSO	
8001	*03	*66	*07	*49	*07								SSO	
8043	*03	*66	*07	*49	*07	*07	*03:01	*66:01	*07:02	*49:01	*07:01	*07:02	SSP SSO	
8070							*03:01	*66:01	*07:02	*49:01	*07:01	*07:02	SBT	

**Table 12. Individual laboratory results for Cell #1618**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*24	*25	*07	*14	*07	*08	*24:02	*25:01	*07:02	*14:02	*07:02	*08:02		
725	*24	*25	*07	*14	*07	*08							SSO	
731	*24	*25	*07	*14	*07	*08	*24:02:01G	*25:01:01G	*07:02:01G	*14:02	*07:02:01G	*08:02:01G	SSO SBT	A*24:06 A*25:04 B*07:26 B*14:03 C*07:37 C*08:04
745							*24:02:01:01	*25:01:01:01	*07:02:01:01	*14:02:01:01	*07:02:01:03	*08:02:01:01	SBT NGS	
747	*24	*25	*07	*14	*07	*08	*24:02:01:01	*25:01:01	*07:02:01:01	*14:02:01:01	*07:02:01:03	*08:02:01:01	SSP SSO NGS	
762							*24:02:01:01	*25:01:01	*07:02:01:01	*14:02:01:01	*07:02:01:03	*08:02:01:01	SSP SSO NGS	
771	*24	*25	*07	*14	*07	*08	*24:02	*25:01	*07:02	*14:02	*07:02	*08:02	SSP SSO	
774	*24	*25	*07	*14	*07	*08				*14:02			SSP SSO	B*14:39
779	*24	*25	*07	*14	*07	*08				*14:02			SSP SSO	
3186	*24	*25	*07	*14	*07	*08							SSO	
3545	*24	*25	*07	*14	*07	*08	*24:02	*25:01	*07:02	*14:02	*07:02	*08:02	SSO SBT	A*24:352 A*24:353 B*07:61 B*07:161N C*07:50 C*07:349 B*07:271 B*07:294 B*07:298 C*07:566 C*07:592 C*07:594 C*07:595 C*07:596
3625	*24	*25	*07	*14	*07	*08	*24:02	*25:01	*07:02	*14:02	*07:02	*08:02		A*24:352 A*24:353 B*07:61 B*07:161N
3632	*24	*25	*07	*14	*07	*08	*24:02	*25:01	*07:02	*14:02	*07:02	*08:02	SSP SSO	
3766	*24	*25	*07	*14										
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*24	*25	*07	*14	*07	*08	*24:02P	*25:01	*07:02:01G	*14:02	*07:02:01G	*08:02	SSO SBT	
5133							*24:02:01	*25:01:01:01	*07:02:01:01	*14:02:01:01	*07:02:01:03	*08:02:01:01	NGS	
5214	*24	*25	*07	*14 (B65)	*07	*08							SSO	
5462	*24	*25	*07	*14	*07	*08	*24:02	*25:01	*07:02	*14:02	*07:02	*08:02	SSO NGS	
5642	*24	*25	*07	*14	*07	*08							SSP	
6649	*24	*25	*07	*14									SSO	
8001	*24	*25	*07	*14	*07	*08							SSO	
8043	*24	*25	*07	*14	*07	*08	*24:02	*25:01	*07:02	*14:02	*07:02	*08:02	SSP SSO	
8070							*24:02	*25:01	*07:02	*14:02	*07:02	*08:02	SBT	

**Table 13. Individual laboratory results for Cell #1619**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*01	*34	*08	*81	*07	*18	*01:01	*34:02	*08:01	*81:01	*07:01	*18:01		
725	*01	*34	*08	*81	*07	*18							SSO	
731	*01	*34	*08	*81	*07	*18	*01:01:01G	*34:02:01	*08:01:01G	*81:01:01G	*07:01:01G	*18:01:01G	SSO SBT	A*01:43 A*34:08
745							*01:01:01:01	*34:02:01	*08:01:01:01	*81:01	*07:01:01	*18:01	SBT NGS	
747	NT												SSP SSO NGS	
762							*01:01:01:01	*34:02:01	*08:01:01	*81:01	*07:01:01:01	*18:01	SSP SSO NGS	
771	*01	*34	*08	*81	*07	*18	*01:01	*34:02	*08:01	*81:01	*07:01	*18:01	SSP SSO	
774	*01	*34	*08	*81	*07	*18							SSP SSO	
779	*01	*34	*08	*81	*07	*18							SSP SSO	
3186	*01	*34	*08	*81	*07	*18							SSO	
3545	*01	*34	*08	*81	*07	*18	*01:01	*34:02	*08:01	*81:01	*07:01	*18:01	SSO SBT	A*01:234 B*81:02 C*07:06 C*07:18 C*07:343 C*07:419 C*07:458 C*07:591 C*18:02 B*08:173 B*08:182 B*08:183 C*07:610
3625	*01	*34	*08	*81	*07	*18	*01:01	*34:02	*08:01	*81:01	*07:01	*18:01		A*01:234
3632	*01	*34	*08	*81	*07	*18	*01:01	*34:02	*08:01	*81:01	*07:01	*18:01	SSP SSO	
3766	*01	*34	*08	*81										
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*01	*34	*08	*81	*07	*18	*01:01:01G	*34:02	*08:01:01G	*81:01:01G	*07:01:01G	*18:01:01G	SSO SBT	
5133							*01:01:01:01	*34:02:01	*08:01:01:01	*81:01	*07:01:01:01	*18:01	NGS	
5214	*01	*34	*08	*81	*07	*18							SSO	
5462							*01:01	*34:02	*08:01	*81:01	*07:01	*18:01	SSO NGS	
5642	*01	*34	*08	*81	*07	*18							SSP	
6649	*01	*34	*08	*81									SSO	
8001	*01	*34	*08	*81	*07	*18							SSO	
8043	*01	*34	*08	*81	*07	*18							SSP SSO	
8070							*01:01	*34:02	*08:01	*81:01	*07:01	*18:01	SBT	

**Table 14. Individual laboratory results for Cell #1620**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*36	*53	*58	*03	*04	*02:01	*36:01	*53:01	*58:01	*03:02	*04:01		
725	*02	*36	*53	*58	*03	*04							SSO	
731	*02	*36	*53	*58	*03	*04	*02:01:01G	*36:01	*53:01:01	*58:01:01	*03:02:01G	*04:01:01G	SSO SBT	
745							*02:01:01	*36:01	*53:01:01	*58:01:01	*03:02:02	*04:01:01	SBT NGS	
747													SSP SSO NGS	
762							*02:01:01	*36:01	*53:01:01	*58:01:01:03	*03:02:02:01	*04:01:01:01	SSP SSO NGS	
771	*02	*36	*53	*58	*03	*04	*02:01	*36:01	*5:01	*58:01	*03:02	*04:01	SSP SSO	
774	*02	*36	*53	*58	*03	*04		*36:01					SSP SSO	A*36:05
779	*02	*36	*53	*58	*03	*04					*03:02		SSP SSO	
3186	*02	*36	*53	*58	*03	*04							SSO	
														C*04:30 C*04:82 C*04:226 C*04:275 A*02:629 A*02:665 A*02:686 A*02:689 A*02:704 C*04:277
3545	*02	*36	*53	*58	*03	*04	*02:01	*36:01	*53:01	*58:01	*03:02	*04:01	SSO SBT	
														A*02:629 A*02:642 A*02:665 C*04:226
3625	*02	*36	*53	*58	*03	*04	*02:01	*36:01	*53:01	*58:01	*03:02	*04:01		
3632	*02	*36	*53	*58	*03	*04	*02:01	*36:01	*53:01	*58:01	*03:02	*04:01	SSP SSO	
3766	*02	*36	*53	*58										
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*02	*36	*53	*58	*03	*04	*02:01:01G	*36:01	*53:01	*58:01	*03:02	*04:01P	SSO SBT	
5133							*02:01:01	*36:01	*53:01:01	*58:01:01	*03:02:02	*04:01:01	NGS	
					*03									
5214	*02	*36	*53	*58	(Cw10)	*04							SSO	
5462	*02	*36	*53	*58	*03	*04	*02:01	*36:01	*53:01	*58:01	*03:02	*04:01	SSO NGS	
5642	*02	*36	*53	*58	*03	*04							SSP	
6649	*02	*36	*53	*58									SSO	
8001	*02	*36	*53	*58	*03	*04							SSO	
8043	*02	*36	*53	*58	*03	*04							SSP SSO	
8070							*02:01	*36:01	*53:01	*58:01	*03:02	*04:01	SBT	

**Table 15. Individual laboratory results for Cell #1617-1620 by serology**

Investigator	Days Old	Cell No 1617 (Hispanic)										Cell No 1618 (Caucasian)										Cell No 1619 (Black)										Cell No 1620 (Mixed)									
		Viab %	A3	A66	B7	B49	Cw7	Bw4	Bw6	OTHERS	Viab %	A24	A25	B7	B14	Cw7	Cw8	Bw6	OTHERS	Viab %	A1	A34	B8	B81	Cw7	Bw6	OTHERS	Viab %	A2	A36	B53	B58	Cw3	Cw4	Bw4	OTHERS					
Cecka, J. Mic	2	>95	+	+	+	+		+	+		>95	+	+	+	B65			+		>95	+	+	+	+		+		>95	+	+	+	+				+					
Enczmann, J		95	+	+	+	+					95	+	+	+	B65					95	+	+	+	+		+		95	+	+	+	+									
Fort, Marylis		NT									NT									NT								NT													
Hahn, Amy B.		99	+	+	+	+		+	+		99	+	+	+	+			+		99	+	+	+	+		+		99	+	+	+	+			+	B17					
Latham, Katy	3	100	+	+	+	+		+	+		100	+	+	+	+		+	Bw4		100	+	+	+	+		+		100	+	+	+	+			+						
Permpikul, Ve	6	90	+	+	+	+			+		90	+	+	+	+		+			90	+	+	+	+		+		90		+	+	+			+	A1					
Pule, Ziningi		90	+	+	+	+	+	+	+	B73	90	+	+	+	B65	+	+	+	B73, Bw4	70	+		+	B7	+	+	B73	70	+			B17		+	+						
Rees, Tracey	3	90	+	+	+	+	+				90	+	+	+	B65	+	+			90	+	+	+	+	+	Cw18	90	+	+	+	+	Cw10	+								
Renac, Virgin	3	100	+	+	+	+	+		+	+	100	+	+	+	+		+			100	+	+	+	+		+		100	+	+	+	+			+						
Shai, Isaac	7	92	+	A10	+	+	+	+	+		90	+	+	+	+	+	+			92	+	A10	+	B7	+	+	Cw4, Cw17	90	+		+	+	Cw8	+	+						
Varnavidou-Ni	8	85	+	+	+	+		+	+		83	+	+	+	+		+	Bw4		90	+	+	+	+		+		90	+	+	+	+			+						
Vidan-Jeras,		100	+	+	+	+	+	+	+		100	+	+	+	+	+	+	Bw4		100	+	+	+	+	+	+		100	+	+	+	+	+	+	+						
Villard, Jean	3	100	+	A10	+	+	+	+	+		100	+	+	+	+	+	+			NT								NT													