## Discrete Trait Transition Rates of IAV Proteins

Modelled by rjMCMC Multistate Estimation in BayesTraits

	wiodelle	a by ijiv	- IVIO IV	ruitista	L LSIII		Dayesiia																		
	01PB2							02PB1						03PA						04HA					
P <b>-</b>	1.35 ±0.85	0.29 ±0.56	0.43 ±0.67	0.67 ±0.79	1.7 ±0.78		3.34 ±1.2	0.55 ±1	0.51 ±0.98	0.41 ±0.85	3.4 ±1.32		3.72 ±0.86	0.12 ±0.34	0.09 ±0.32	0.09 ±0.27	3.73 ±0.87		0.3 ±0.28	0.03 ±0.06	0.04 ±0.08	0.03 ±0.07	0.75 ±0.21		
Н-	1.61 ±0.87	0.69 ±0.83		0.78 ±0.91		14.01 ±3.65	2.46 ±1.56	1.69 ±1.6	1.89 ±1.61	1.59 ±1.52		40.38 ±8.67	1.63 ±1.7	1.18 ±1.59	3.13 ±1.35	0.92 ±1.42		28.7 ±7.42	0.59 ±0.34	0.19 ±0.26	0.48 ±0.35	0.18 ±0.28		15.85 ±2.94	
E-	3.79 ±5.64	5.01 ±6.24	7.73 ±6.98		3.72 ±5.37	4.05 ±5.8	2.79 ±1.96	2.37 ±4.96	3.66 ±4.81		1.57 ±1.62	1.61 ±2.42	2.77 ±5.31	2.95 ±5.34	7.94 ±10.19		3.4 ±6.4	7.7 ±9.91	0.93 ±3.12	0.71 ±2.25	7.84 ±7.81		1.58 ±4.26	3 ±5.7	
D-	3.7 ±5.48	4.36 ±5.97		8.08 ±6.95	3.85 ±5.57	3.46 ±5.36	8.99 ±15.34	9.43 ±15.46			10.73 ±17.33	6.52 ±12.95	9.37 ±12.32	6.09 ±9.26		12.22 ±13.89		-	4.16 ±6.79	4.55 ±7.04		6.45 ±7.87	4.06 ±6.88	6.96 ±7.89	
В-	1.04 ±1.74		1.31 ±2.71	1.58 ±3.17	1.12 ±2.05		2.14 ±4.9		3.21 ±8.24	3.72 ±8.4	1.96 ±4.09	_	1.57 ±2.57		1.71 ±3.51	1.77 ±3.63	1.21 ±2.04	-	0.27 ±0.82		0.44 ±2.1	0.3 ±1.2	0.26 ±1.02	0.29 ±1.32	
Α-		0.72 ±0.99	1.84 ±1.81	1.19 ±1.52	1.44 ±1.71	14.02 ±3.63		0.21 ±0.67	1.09 ±1.27	0.18 ±0.55	_	3.24 ±1.25		0.06 ±0.16	2.01 ±1.56	0.69 ±1.14	_	3.72 ±0.86		0.03 ±0.04	0.03 ±0.08	0.13 ±0.16	0.1 ±0.14	0.76 ±0.2	
Recip	05NP						06NA						07M1					08NS1							
~	6.48				6.6		0.77	0.18	0.16	0.08	0.77		12.07	0.22	0.19	0.26	12.68		0.47	0.01	0	0.01	0.47		
Р-	±1.39				±1.7		±0.27	±0.3		±0.22					±0.51				±0.1	±0.04		±0.04			
	0.05					6.49	0.35	0.42	0.35	0.37	_0	16.72	11.5	0.29	0.71	0.44		13.54	0.46	0.33	0.26	0.25		9.92	
Н-	±0.15					±1.37	±0.4	_	±0.39	±0.4		±4.64	±4.94		_	_		±3.91	±0.1	±0.22				±2.07	
							2.77	2.51	2.92		1.23	0.84	8.41	6.12	6.07		6.44	6.78	1.19	1.36	7.01		0.84	1.24	
E-							±5.55	±5.25	±5.97		±3.61	±2.61	±7.15	±6.98	±7.13		±7.17	±6.86	±2.85	±2.99	±4.7		±2.28	±2.91	
_							9.55	5.02		12.76	8.06	3.55	8.96	6.5		5.89	5.47	6.04	0.31	0.45		1.36	0.28	0.28	
D <b>-</b>							±8.88	±7.63		±7.79	±8.58	±6.55	±6.78	±7.05		±7.05	±6.66	±6.55	±0.5	±1.29		±2.88	±0.52	±0.67	
В-							1.34		1.06	1.65	0.51	0.66	6.56		6.77	5.71	5.95	6.37	0.77		0.93	1.1	0.45	0.66	
٦٦							±3.91		±3.33	±4.56	±1.9	±2.56	±7.03		±7.04	±6.85	±7.04	±7.1	±2.32		±2.52	±2.71	±1.46	±2	
A <b>-</b>					0.29	0.61		0.02	0.62	0.14	0.05	0.77		0.28	0.35	0.41	0.53	12.93		0.03	0.12	0.29	0.45	0.47	
, ,					±0.24	±0.34		+0.12	+0.35	±0.28	+0.15	+0.27		±0.81	+0.79	+0.79	+1 59	±3.76		±0.12	+0.2	±0.22	±0.1	±0.1	
					±0.∠¬	±0.0∓		_0	_0.00	_00		=01=1		±0.01	±0.75	±0.70	±1.00	20.70		±0.12	±0.2	±0.22	±0.1	_0	

Donor