					А				
Wuhan-Hu-1 -	1.00	8.92	56.36	56.36	2.21	12.32	45.96	262.74	255.10
Alpha -	8.92	1.00	43.56	43.56	11.33	22.34	34.00	233.03	226.02
Beta -	56.36	43.56	1.00	1.00	59.82	75.62	57.86	131.99	127.10
Gamma -	56.36	43.56	1.00	1.00	59.82	75.62	57.86	131.99	127.10
Delta -	2.21	11.33	59.82	59.82	1.00	12.54	49.18	262.02	262.95
Lambda -	12.32	22.34	75.62	75.62	12.54	1.00	63.94	307.42	298.84
Mu -	45.96	34.00	57.86	57.86	49.18	63.94	1.00	266.22	143.29
Omicron -	262.74	233.03	131.99	131.99	262.02	307.42	266.22	1.00	352.11
PMS20 -	255.10	226.02	127.10	127.10	262.95	298.84	143.29	352.11	1.00
	Wuhan-Hu-1 -	Alpha -	Beta -	Gamma -	Delta -	Lambda -	- Mu	Omicron -	- PMS20 -

_					В				
Wuhan-Hu-1 -	1.00	3.63	28.57	28.57	12.04	28.46	34.21	126.88	103.96
Alpha -	3.63	1.00	24.07	24.07	16.10	33.13	29.51	118.93	96.81
Beta -	28.57	24.07	1.00	1.00	44.05	65.17	16.81	76.46	58.63
Gamma -	28.57	24.07	1.00	1.00	44.05	65.17	16.81	76.46	58.63
Delta -	12.04	16.10	44.05	44.05	1.00	32.89	50.36	119.32	128.51
Lambda -	28.46	33.13	65.17	65.17	32.89	1.00	72.41	191.46	162.02
Mu -	34.21	29.51	16.81	16.81	50.36	72.41	1.00	106.11	51.97
Omicron -	126.88	118.93	76.46	76.46	119.32	191.46	106.11	1.00	155.75
PMS20 -	103.96	96.81	58.63	58.63	128.51	162.02	51.97	155.75	1.00
	Wuhan-Hu-1 -	Alpha -	Beta -	Gamma -	Delta -	Lambda -	Mu -	Omicron -	- PMS20 -

					С				
Wuhan-Hu-1 -	1.00	3.91	70.51	70.51	27.18	69.02	109.41	216.88	237.17
Alpha -	3.91	1.00	64.10	64.10	32.15	75.63	101.53	204.96	224.50
Beta -	70.51	64.10	1.00	1.00	116.86	188.21	28.61	85.84	97.74
Gamma -	70.51	64.10	1.00	1.00	116.86	188.21	28.61	85.84	97.74
Delta -	27.18	32.15	116.86	116.86	1.00	39.13	166.33	284.97	328.82
Lambda -	69.02	75.63	188.21	188.21	39.13	1.00	253.94	435.60	469.90
Mu -	109.41	101.53	28.61	28.61	166.33	253.94	1.00	139.01	61.01
Omicron -	216.88	204.96	85.84	85.84	284.97	435.60	139.01	1.00	222.03
PMS20 -	237.17	224.50	97.74	97.74	328.82	469.90	61.01	222.03	1.00
	Wuhan-Hu-1 -	Alpha -	Beta -	Gamma -	Delta -	Lambda -	Mu -	Omicron -	- PMS20 -

					D1				
Wuhan-Hu-1 -	1.00	14.15	43.14	43.14	38.96	59.84	101.92	365.50	222.14
Alpha -	14.15	1.00	25.39	25.39	58.63	82.46	76.88	307.78	182.20
Beta -	43.14	25.39	1.00	1.00	98.91	128.79	49.67	225.20	125.06
Gamma -	43.14	25.39	1.00	1.00	98.91	128.79	49.67	225.20	125.06
Delta -	38.96	58.63	98.91	98.91	1.00	32.77	180.59	460.37	347.66
Lambda -	59.84	82.46	128.79	128.79	32.77	1.00	222.74	644.03	414.90
Mu -	101.92	76.88	49.67	49.67	180.59	222.74	1.00	386.72	59.54
Omicron -	365.50	307.78	225.20	225.20	460.37	644.03	386.72	1.00	558.72
PMS20 -	222.14	182.20	125.06	125.06	347.66	414.90	59.54	558.72	1.00
	Wuhan-Hu-1 -	Alpha -	Beta -	Gamma -	Delta -	Lambda -	- Mu	Omicron -	- PMS20 -

					D2				
Wuhan-Hu-1 -	1.00	60.95	88.11	88.11	5.13	7.33	132.39	780.12	394.39
Alpha -	60.95	1.00	16.88	16.88	69.20	72.75	44.39	446.84	207.17
Beta -	88.11	16.88	1.00	1.00	97.76	101.91	26.02	367.87	162.82
Gamma -	88.11	16.88	1.00	1.00	97.76	101.91	26.02	367.87	162.82
Delta -	5.13	69.20	97.76	97.76	1.00	5.84	144.30	792.56	419.74
Lambda -	7.33	72.75	101.91	101.91	5.84	1.00	149.43	844.66	430.64
Mu -	132.39	44.39	26.02	26.02	144.30	149.43	1.00	489.60	112.75
Omicron -	780.12	446.84	367.87	367.87	792.56	844.66	489.60	1.00	712.64
PMS20 -	394.39	207.17	162.82	162.82	419.74	430.64	112.75	712.64	1.00
	Wuhan-Hu-1 -	Alpha -	Beta -	Gamma -	Delta -	Lambda -	- Mu	Omicron -	- PMS20 -

					E1				
Wuhan-Hu-1 -	1.00	17.43	41.32	41.32	16.09	23.07	71.39	462.66	267.26
Alpha -	17.43	1.00	20.34	20.34	36.32	44.51	45.95	379.16	212.76
Beta -	41.32	20.34	1.00	1.00	64.05	73.91	43.67	298.16	159.88
Gamma -	41.32	20.34	1.00	1.00	64.05	73.91	43.67	298.16	159.88
Delta -	16.09	36.32	64.05	64.05	1.00	11.01	98.96	523.75	326.33
Lambda -	23.07	44.51	73.91	73.91	11.01	1.00	110.92	592.45	351.97
Mu -	71.39	45.95	43.67	43.67	98.96	110.92	1.00	472.03	114.28
Omicron -	462.66	379.16	298.16	298.16	523.75	592.45	472.03	1.00	530.99
PMS20 -	267.26	212.76	159.88	159.88	326.33	351.97	114.28	530.99	1.00
	Wuhan-Hu-1 -	Alpha -	Beta -	Gamma -	Delta -	Lambda -	- Mu	Omicron -	- PMS20 -

					E3				
Wuhan-Hu-1 -	1.00	10.86	37.95	37.95	4.13	5.68	39.66	198.20	113.78
Alpha -	10.86	1.00	24.43	24.43	15.44	17.16	25.97	168.98	92.84
Beta -	37.95	24.43	1.00	1.00	43.65	45.78	17.11	116.17	54.97
Gamma -	37.95	24.43	1.00	1.00	43.65	45.78	17.11	116.17	54.97
Delta -	4.13	15.44	43.65	43.65	1.00	7.88	45.43	192.13	122.62
Lambda -	5.68	17.16	45.78	45.78	7.88	1.00	47.59	215.14	125.92
Mu -	39.66	25.97	17.11	17.11	45.43	47.59	1.00	153.16	53.08
Omicron -	198.20	168.98	116.17	116.17	192.13	215.14	153.16	1.00	152.78
PMS20 -	113.78	92.84	54.97	54.97	122.62	125.92	53.08	152.78	1.00
	Wuhan-Hu-1 -	Alpha -	Beta -	Gamma -	Delta -	Lambda -	- Mu	Omicron -	- PMS20 -

					F1				
Wuhan-Hu-1 -	1.00	24.70	41.81	41.81	38.77	33.19	50.03	576.59	210.27
Alpha -	24.70	1.00	13.72	13.72	73.04	66.09	20.31	442.57	148.81
Beta -	41.81	13.72	1.00	1.00	96.79	88.88	10.34	377.10	118.78
Gamma -	41.81	13.72	1.00	1.00	96.79	88.88	10.34	377.10	118.78
Delta -	38.77	73.04	96.79	96.79	1.00	16.14	108.19	675.92	330.54
Lambda -	33.19	66.09	88.88	88.88	16.14	1.00	99.82	801.13	313.24
Mu -	50.03	20.31	10.34	10.34	108.19	99.82	1.00	426.45	106.81
Omicron -	576.59	442.57	377.10	377.10	675.92	801.13	426.45	1.00	597.86
PMS20 -	210.27	148.81	118.78	118.78	330.54	313.24	106.81	597.86	1.00
	Wuhan-Hu-1 -	Alpha -	Beta -	Gamma -	Delta -	Lambda -	- Mu	Omicron -	- PMS20 -

					F2				
Wuhan-Hu-1 -	1.00	18.30	35.75	35.75	5.66	7.20	42.50	286.16	117.00
Alpha -	18.30	1.00	14.75	14.75	24.99	26.82	20.46	226.43	83.43
Beta -	35.75	14.75	1.00	1.00	43.43	45.53	13.46	184.47	59.85
Gamma -	35.75	14.75	1.00	1.00	43.43	45.53	13.46	184.47	59.85
Delta -	5.66	24.99	43.43	43.43	1.00	5.98	50.56	290.63	129.27
Lambda -	7.20	26.82	45.53	45.53	5.98	1.00	52.77	313.98	132.63
Mu -	42.50	20.46	13.46	13.46	50.56	52.77	1.00	222.76	52.28
Omicron -	286.16	226.43	184.47	184.47	290.63	313.98	222.76	1.00	297.81
PMS20 -	117.00	83.43	59.85	59.85	129.27	132.63	52.28	297.81	1.00
	Wuhan-Hu-1 -	Alpha -	Beta -	Gamma -	Delta -	Lambda -	- Mu	Omicron -	- PMS20 -

					F3				
Wuhan-Hu-1 -	1.00	38.01	88.85	88.85	6.20	6.00	74.79	772.70	241.66
Alpha -	38.01	1.00	36.84	36.84	46.57	46.28	26.65	532.36	147.57
Beta -	88.85	36.84	1.00	1.00	100.56	100.17	38.44	362.12	80.92
Gamma -	88.85	36.84	1.00	1.00	100.56	100.17	38.44	362.12	80.92
Delta -	6.20	46.57	100.56	100.56	1.00	4.21	85.63	787.67	262.85
Lambda -	6.00	46.28	100.17	100.17	4.21	1.00	85.27	825.03	262.15
Mu -	74.79	26.65	38.44	38.44	85.63	85.27	1.00	539.75	95.47
Omicron -	772.70	532.36	362.12	362.12	787.67	825.03	539.75	1.00	455.23
PMS20 -	241.66	147.57	80.92	80.92	262.85	262.15	95.47	455.23	1.00
	Wuhan-Hu-1 -	Alpha -	Beta -	Gamma -	Delta -	Lambda -	- Mu	Omicron -	- PMS20 -

					А										В				
Wuhan-Hu-1 - Alpha -		1.00	56.36 43.56	56.36 43.56	2.21	12.32 22.34	45.96 34.00	262.74		Wuhan-Hu-1 - Alpha -		1.00	28.57	28.57	12.04	28.46	34.21 29.51	126.88 118.93	103.96 96.81
·	56.36		1.00	1.00	59.82	75.62	57.86	131.99		·	28.57	24.07	1.00	1.00	44.05	65.17	16.81	76.46	58.63
Gamma -	56.36	43.56	1.00	1.00	59.82	75.62	57.86	131.99	127.10	Gamma -	28.57	24.07	1.00	1.00	44.05	65.17	16.81	76.46	58.63
Delta -	2.21	11.33	59.82	59.82	1.00	12.54	49.18	262.02	262.95	Delta -	12.04	16.10	44.05	44.05	1.00	32.89	50.36	119.32	128.51
Lambda -	12.32	22.34	75.62	75.62	12.54	1.00	63.94	307.42	298.84	Lambda -	28.46	33.13	65.17	65.17	32.89	1.00	72.41	191.46	162.02
Mu -	45.96	34.00	57.86	57.86	49.18	63.94	1.00	266.22	143.29	Mu -	34.21	29.51	16.81	16.81	50.36	72.41	1.00	106.11	51.97
Omicron -	262.74	233.03	131.99	131.99	262.02	307.42	266.22	1.00	352.11	Omicron -	126.88	118.93	76.46	76.46	119.32	191.46	106.11	1.00	155.75
PMS20 -	255.10		127.10	127.10		ļ		352.11		PMS20 -	103.96	ı	58.63	58.63	ļ.,	<b>.</b>	ı	155.75	<b>.</b> .
	Wuhan-Hu-1	Alpha	Beta	Gamma	Delta	Lambda	Mu	Omicron	PMS20		Wuhan-Hu-1	Alpha	Beta	Gamma	Delta	Lambda	Σ	Omicron	PMS20
	Wuh										Wuh								
					С										D1				
Wuhan-Hu-1 -	1.00	3.91	70.51	70.51	27.18	69.02	109.41	216.88	237.17	Wuhan-Hu-1 -	1.00	14.15	43.14	43.14	38.96	59.84	101.92	365.50	222.14
Alpha -	3.91	1.00	64.10	64.10	32.15	75.63	101.53	204.96	224.50	Alpha -	14.15	1.00	25.39	25.39	58.63	82.46	76.88	307.78	182.20
Beta -	70.51	64.10	1.00	1.00	116.86	188.21	28.61	85.84	97.74	Beta -	43.14	25.39	1.00	1.00	98.91	128.79	49.67	225.20	125.06
Gamma -	70.51	64.10	1.00	1.00	116.86	188.21	28.61	85.84	97.74	Gamma -	43.14	25.39	1.00	1.00	98.91	128.79	49.67	225.20	125.06
Delta -	27.18	32.15	116.86	116.86	1.00	39.13	166.33	284.97	328.82	Delta -	38.96	58.63	98.91	98.91	1.00	32.77	180.59	460.37	347.66
Lambda -		75.63		188.21		1.00		435.60		Lambda -		82.46	128.79	128.79	32.77	1.00		644.03	
Mu - Omicron -	216.88		28.61 85.84	28.61 85.84	284.97	253.94 435.60	1.00	1.00	61.01	Mu - Omicron -	101.92 365.50	76.88 307.78	49.67	49.67	180.59	644.03	386.72	1.00	59.54 558.72
Omicron - PMS20 -			97.74	97.74	328.82	469.90	61.01	222.03	1.00	Omicron - PMS20 -				125.06		414.90	59.54	558.72	1.00
		Alpha -	Beta -	Gamma -	Delta -	Lambda -	n W	Omicron -	PMS20 -	. 19320	' <u>.</u>	Alpha -	Beta -	Gamma -	Delta -	Lambda -	- n W	Omicron -	PMS20 -
	Wuhan-Hu-1	A	ш	Gan	Δ	Lam		Omic	PΜ		Wuhan-Hu-1	A	ш	Gan	Δ	Lam		Omic	Α
					D2			700.10							E1				
Wuhan-Hu-1 - Alpha -		1.00	16.88	88.11	5.13	7.33	132.39 44.39	780.12 446.84	394.39 207.17	Wuhan-Hu-1 -		17.43	41.32	41.32	16.09 36.32	23.07	71.39 45.95	462.66 379.16	
Beta -		16.88	1.00	1.00	69.20 97.76	101.91	26.02	367.87		Alpha - Beta -	41.32	20.34	1.00	1.00	64.05	73.91	43.67		159.88
Gamma -		16.88	1.00	1.00	97.76	101.91	26.02	367.87		Gamma -			1.00	1.00	64.05	73.91	43.67	298.16	
Delta -	5.13	69.20	97.76	97.76	1.00	5.84	144.30	792.56	419.74	Delta -	16.09	36.32	64.05	64.05	1.00	11.01	98.96	523.75	326.33
Lambda -	7.33	72.75	101.91	101.91	5.84	1.00	149.43	844.66	430.64	Lambda -	23.07	44.51	73.91	73.91	11.01	1.00	110.92	592.45	351.97
Mu -	132.39	44.39	26.02	26.02	144.30	149.43	1.00	489.60	112.75	Mu -	71.39	45.95	43.67	43.67	98.96	110.92	1.00	472.03	114.28
Omicron -	780.12	446.84	367.87	367.87	792.56	844.66	489.60	1.00	712.64	Omicron -	462.66	379.16	298.16	298.16	523.75	592.45	472.03	1.00	530.99
PMS20 -	394.39		ı	,	419.74	ı	112.75	712.64	1.00	PMS20 -	267.26	ļ		159.88	ļ.,	351.97	,		1.00
	Wuhan-Hu-1	Alpha	Beta	Gamma	Delta	Lambda	Σ	Omicron	PMS20		Wuhan-Hu-1	Alpha	Beta	Gamma	Delta	Lambda	Σ	Omicron	PMS20
	Wu										Wu								
					E3										F1				
Wuhan-Hu-1 -	1.00	10.86	37.95	37.95	4.13	5.68	39.66	198.20	113.78	Wuhan-Hu-1 -	1.00	24.70	41.81	41.81	38.77	33.19	50.03	576.59	210.27
Alpha -	10.86	1.00	24.43	24.43	15.44	17.16	25.97	168.98	92.84	Alpha -	24.70	1.00	13.72	13.72	73.04	66.09	20.31	442.57	148.81
Beta -	37.95	24.43	1.00	1.00	43.65	45.78	17.11	116.17	54.97	Beta -	41.81	13.72	1.00	1.00	96.79	88.88	10.34	377.10	118.78
Gamma -		24.43	1.00	1.00	43.65	45.78	17.11	116.17	54.97	Gamma -		13.72	1.00	1.00	96.79	88.88	10.34	377.10	
Delta - Lambda -	4.13 5.68	15.44 17.16	43.65 45.78	43.65 45.78	7.88	7.88 1.00	45.43 47.59	192.13 215.14	122.62 125.92	Delta - Lambda -		73.04	96.79 88.88	96.79 88.88	1.00	1.00	108.19 99.82	675.92 801.13	330.54
	39.66	25.97	17.11	17.11	45.43	47.59	1.00	153.16	53.08		50.03	20.31	10.34	10.34	108.19	99.82	1.00	426.45	106.81
Omicron -			116.17		192.13		153.16	1.00	152.78	Omicron -						801.13	426.45	1.00	597.86
PMS20 -	113.78	92.84	54.97	54.97	122.62	125.92	53.08	152.78	1.00	PMS20 -	210.27	148.81	118.78	118.78	330.54	313.24	106.81	597.86	1.00
	n-Hu-1	Alpha -	Beta -	Gamma -	Delta -	Lambda -	M N	Omicron -	PMS20 -		n-Hu-1 -	Alpha -	Beta -	Gamma -	Delta -	Lambda -	M L	Omicron -	PMS20 -
	Wuhan-Hu-			Ġ		Ļ		Ö	_		Wuhan-Hu-			Ű		Lŝ		Ö	_
Wuhan-Hu-1 -	1.00	18.30	35.75	35.75	F2 5.66	7.20	42.50	286.16	117.00	Wuhan-Hu-1 -	1.00	38.01	88.85	88.85	F3 6.20	6.00	74.79	772.70	241.66
Alpha -	18.30	1.00	14.75	14.75	24.99	26.82	20.46	226.43	83.43	Alpha -	38.01	1.00	36.84	36.84	46.57	46.28	26.65	532.36	147.57
Beta -	35.75	14.75	1.00	1.00	43.43	45.53	13.46	184.47	59.85	Beta -	88.85	36.84	1.00	1.00	100.56	100.17	38.44	362.12	80.92
Gamma -	35.75	14.75	1.00	1.00	43.43	45.53	13.46	184.47	59.85	Gamma -	88.85	36.84	1.00	1.00	100.56	100.17	38.44	362.12	80.92
Delta -	5.66	24.99	43.43	43.43	1.00	5.98	50.56	290.63	129.27	Delta -	6.20	46.57	100.56	100.56	1.00	4.21	85.63	787.67	262.85
Lambda -	7.20	26.82	45.53	45.53	5.98	1.00	52.77	313.98	132.63	Lambda -	6.00	46.28	100.17	100.17	4.21	1.00	85.27	825.03	262.15
Mu -	42.50	20.46	13.46	13.46	50.56	52.77	1.00	222.76	52.28	Mu -	74.79	26.65	38.44	38.44	85.63	85.27	1.00	539.75	95.47
Omicron -			184.47		290.63		222.76	1.00	297.81	Omicron -				362.12		825.03		1.00	455.23
PMS20 -		83.43 e	59.85 - -	59.85 - ©U	129.27 <u>p</u>	132.63	52.28 _ _ _ W	297.81	1.00	PMS20 -	-	ı	80.92	80.92 - ©	ı	262.15	95.47 - - W	455.23 - - -	1.00
	Wuhan-Hu-	Alpha	Beta	Gamma	Delta	Lambda	Ž	Omicron	PMS20		Wuhan-Hu-	Alpha	Beta	Gamma	Delta	Lambda	Σ	Omicron	PMS20
	رح										Mu								