

Table S1: List of selected mollicutes with some genomics and phenotypic (cultivability) features

Phylogenetic group	Numbering in this study	Mycoplasma species	Strain	Natural Host	Genome size (Mbp)	% G+C	# CDS	Cultivability	GenBank #
Spiroplasma	1	<i>M. capricolum</i> subsp. <i>capripneumoniae</i>	99108-P1	Ruminant	1.006	23.6	693	Yes	PRJNA164785
	2	<i>M. leachii</i>	PG50	Ruminant	1.009	23.7	883	Yes	CP002108.1
	3	<i>M. mycoides</i> subsp. <i>mycoides</i>	PG1	Ruminant	1.212	24.0	917	Yes	BX293980.2
	4	<i>M. mycoides</i> subsp. <i>capri</i>	95010	Ruminant	1.154	23.8	921	Yes	FQ377874.1
	5	<i>M. capricolum</i> subsp. <i>capricolum</i>	ATCC27343	Ruminant	1.010	23.8	817	Yes	CP000123.1
	6	<i>M. yeatsii</i>	13926	Ruminant	0.897	25.8	687	Yes	AORK000000000
	7	<i>M. putrefaciens</i>	CIRAD	Ruminant	0.860	27.0	684	Yes	CP004357.1
	8	<i>Mesoplasma florum</i>	L1	Plants	0.793	27.0	683	Yes	AE017263.1
	9	<i>Spiroplasma citri</i>	GII-3	Insects&plants	1.840	26.0	2050	Yes	PRJNA13930
Hominis	10	<i>M. auris</i>	15026	Ruminant	0.768	27.2	616	Yes	AORI000000000
	11	<i>M. alkalescens</i>	14918	Ruminant	0.772	25.6	601	Yes	AMWK000000000
	12	<i>M. arginini</i>	7264	Ruminant	0.616	26.2	513	Yes	AORG000000000
	13	<i>M. arthritidis</i>	158L3-1	Rodent	0.820	30.7	631	Yes	CP001047.1
	14	<i>M. hominis</i>	PG21	Human	0.665	27.1	531	Yes	FP236530.1
	15	<i>M. mobile</i>	163K	Fish	0.777	25.0	637	Yes	AE017308.1
	16	<i>M. hyorhinae</i>	HUB-1	Pig	0.840	25.9	663	Yes	CP002170.1
	17	<i>M. ovipneumoniae</i>	14811	Ruminant	1.071	29.2	685	Yes	PRJNA164759
	18	<i>M. hyopneumoniae</i>	232	Pig	0.893	28.6	695	Yes	AE017332.1
	19	<i>M. pulmonis</i>	UAB CTIP	Rodent	0.964	26.6	783	Yes	AL445566.1
	20	<i>M. synoviae</i>	53	Poultry	0.799	28.5	675	Yes	AE017245.1
	21	<i>M. crocodyli</i>	MP145	Crocodylians	0.934	26.9	697	Yes	CP001991.1
	22	<i>M. fermentans</i>	JER	Human	0.977	26.9	799	Yes	CP001995.1
	23	<i>M. bovis genitalium</i>	cl-51080	Ruminant	0.862	29.0	677	Yes	AORH000000000
	24	<i>M. bovis</i>	PG45	Ruminant	1.003	29.3	766	Yes	CP002188.1
	25	<i>M. agalactiae</i>	PG2	Ruminant	0.877	29.7	714	Yes	CU179680.1
Pneumoniae	26	<i>Ureaplasma diversum</i>	246	Ruminant	1.011	28.1	675	Yes	PRJNA164765
	27	<i>U. parvum</i>	ATCC700970	Human	0.752	25.5	614	Yes	AF222894.1
	28	<i>U. urealyticum</i>	ATCC 33699	Human	0.874	25.8	647	Yes	CP001184.1
	29	<i>M. penetrans</i>	HF2	Human	1.359	25.7	1040	Yes	BA000026.2
	30	<i>M. pneumoniae</i>	M129	Human	0.816	40.0	689	Yes	U00089.2
	31	<i>M. genitalium</i>	G37	Human	0.580	32.0	482	Yes	L43967.2
	32	<i>M. gallisepticum</i>	R (Low)	Poultry	0.996	31.4	727	Yes	AE015450.2
	33	<i>M. haemofelis</i>	Langford	Cat	1.147	38.8	1545	No	FR773153.2
	34	<i>M. haemocanis</i>	Illinois	Dog	0.920	35.3	1156	No	CP003199.1
	35	<i>M. suis</i>	KI3806	Pig	0.709	31.1	799	No	FQ790233.1
AAP	36	<i>Candidatus Phytoplasma mali</i>	AT	Insect&plant	0.602	21.4	480	No	CU469464.1
	37	<i>Candidatus Phytoplasma australiense</i>	rp-A	Insect&plant	0.880	27.4	844	No	AM422018.1
	38	<i>Candidatus Phytoplasma asteris</i>	Yellow	Insect&plant	0.707	26.8	694	No	AP006628.2
	39	<i>Acholeplasma laidlawii</i>	PG-8A	Ubiquitous	1.497	31.9	1380	Yes	CP000896.1