Supplementary Table S1. Genotypic characteristics of the strains typed

Code	Strain	Host	Country	*arcC*	*aroE*	*glpF*	*gmk*	*pta*	*tpi*	*yqiL*	ST*	CC†	Ridom‡	*agr* type§	*sasA*	*sasB*	*sasD*	*sasE*	*sasF*	*sasH*	*sasI*	*sas* type‖	Reference	Source
DS72	496	Chicken	N. Ireland	1	1	1	1	1	1	1	1	1		3									Rodgers *et al.* (1999)	John Rodgers
DS55	11	Chicken	N. Ireland	1	4	1	4	12	1	10	5	5	t002	2	2	3	2	1	6	5	5	1	Rodgers *et al.* (1999)	John Rodgers
DS56	18	Chicken	N. Ireland	1	4	1	4	12	1	10	5	5	t002	2	2	3	2	1	6	5	5	1	Rodgers *et al.* (1999)	John Rodgers
DS58	31	Chicken	N. Ireland	1	4	1	4	12	1	10	5	5		2	2	3	2	1	6	5	5	1	Rodgers *et al.* (1999)	John Rodgers
DS62	34	Chicken	N. Ireland	1	4	1	4	12	1	10	5	5	t002	2	2	3	2	1	6	5	5	1	Rodgers *et al.* (1999)	John Rodgers
DS63	47	Chicken	N. Ireland	1	4	1	4	12	1	10	5	5	t002	2	2	3	2	1	6	5	5	1	Rodgers *et al.* (1999)	John Rodgers
DS65	564	Chicken	N. Ireland	1	4	1	4	12	1	10	5	5		2	2	3	2	1	6	5	5	1	Rodgers *et al.* (1999)	John Rodgers
DS66	589	Chicken	N. Ireland	1	4	1	4	12	1	10	5	5	t002	2	2	3	2	1	6	5	5	1	Rodgers *et al.* (1999)	John Rodgers
DS60	39	Chicken	N. Ireland	1	4	1	4	12	1	10	5	5		2									Rodgers *et al.* (1999)	John Rodgers
DS61	70	Chicken	N. Ireland	1	4	1	4	12	1	10	5	5		2									Rodgers *et al.* (1999)	John Rodgers
DS67	72	Chicken	N. Ireland	1	4	1	4	12	1	10	5	5		2									Rodgers *et al.* (1999)	John Rodgers
DS68	82	Chicken	N. Ireland	12	89	1	1	4	5	90	692	NK		1	31	21	21	31	38	40	10	16	Rodgers *et al.* (1999)	John Rodgers
DS40	CH498	Cow	Argentina	1	1	1	1	1	1	1	1	1		3										José Penadés
1006	1006	Cow	USA	3	3	1	1	4	4	3	8	8		1	2	2	3	1	39	6	3	19	Smyth *et al.* (2005)	J. Ross Fitzgerald
DS37	V299	Cow	Spain	4	9	1	8	1	10	8	20	20		1										José Penadés
1363	1363	Cow	USA	4	1	4	1	5	5	4	25	25	t081	1	7	15	9	8	28	22	12	4	Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
103	103	Cow	Ireland	18	1	1	1	1	5	3	71	97	t524	1	13	10	3	8	16	15	10	8	Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
104	104	Cow	Ireland	18	1	1	1	1	5	3	71	97	t524	1	13	10	3	8	16	15	10	8	Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
79	79	Cow	Ireland	18	1	1	1	1	5	3	71	97		1									Fitzgerald *et al.* (2000)	J. Ross Fitzgerald
105	105	Cow	Ireland	18	1	1	1	1	5	3	71	97		1									Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
123	123	Cow	Ireland	18	1	1	1	1	5	3	71	97		1									Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
291	291	Cow	Ireland	18	1	1	1	1	5	3	71	97		1									Smyth *et al.* (2005)	J. Ross Fitzgerald

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1369	1369	Cow	USA	18	1	1	1	1	5	3	71	97		1									Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
DS38	V315	Cow	Spain	18	1	1	1	1	5	3	71	97		1										José Penadés
28	28	Cow	Ireland	3	1	1	1	1	5	3	97	97	t1236	1	2	10	9	8	27	19	10	5	Fitzgerald *et al.* (2000)	J. Ross Fitzgerald
115	115	Cow	Ireland	3	1	1	1	1	5	3	97	97	t1247	1	2	10	9	8	27	19	10	5	Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
116	116	Cow	Ireland	3	1	1	1	1	5	3	97	97	t1247	1	2	10	9	8	27	19	10	5	Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
26	26	Cow	Ireland	3	1	1	1	1	5	3	97	97		1									Fitzgerald *et al.* (2000)	J. Ross Fitzgerald
117	117	Cow	Ireland	3	1	1	1	1	5	3	97	97		1									Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
31a	31a	Cow	Ireland	3	1	1	1	1	5	3	97	97		1									Fitzgerald *et al.* (2000)	J. Ross Fitzgerald
915	915	Cow	USA	3	1	1	1	1	5	53	115	97	t267	1	32	10	9	8	27	19	10	12	Smyth *et al.* (2005)	J. Ross Fitzgerald
948	948	Cow	USA	3	68	1	4	1	5	40	126	126	t605	2	7	10	14	33	36	38	36	23	Smyth *et al.* (2005)	J. Ross Fitzgerald
951	951	Cow	USA	3	68	1	4	1	5	40	126	126		2									Smyth *et al.* (2005)	J. Ross Fitzgerald
1401	1401	Cow	USA	3	68	1	4	1	5	40	126	126		2									Smyth *et al.* (2005)	J. Ross Fitzgerald
1521	1521	Cow	USA	3	68	1	4	1	5	40	126	126		2									Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
DS36	V329	Cow	Spain	3	68	1	4	1	5	40	126	126		2										José Penadés
282	282	Cow	Ireland	6	66	46	2	7	50	18	133	133	t2678	1	23	29	3	27	34	15	30	9	Smyth *et al.* (2005)	J. Ross Fitzgerald
287	287	Cow	Ireland	6	66	46	2	7	50	18	133	133		1	23	29	3	27	34	15	30	9	Smyth *et al.* (2005)	J. Ross Fitzgerald
DS69	DS69	Cow	Sweden	6	66	46	2	7	50	18	133	133	t1403	1	30	29	3	27	34	15	30	10		
283	283	Cow	Ireland	6	66	46	2	7	50	18	133	133		1									Smyth *et al.* (2005)	J. Ross Fitzgerald
285	285	Cow	Ireland	6	66	46	2	7	50	18	133	133		1									Smyth *et al.* (2005)	J. Ross Fitzgerald
286	286	Cow	Ireland	6	66	46	2	7	50	18	133	133		1									Smyth *et al.* (2005)	J. Ross Fitzgerald
289	289	Cow	Ireland	6	66	46	2	7	50	18	133	133		1									Smyth *et al.* (2005)	J. Ross Fitzgerald
916	916	Cow	USA	6	66	46	2	7	50	18	133	133		1									Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
80	80	Cow	Ireland	6	72	12	43	49	67	59	151	151	t529	2	33	NT	23	29	35	37	32	NT	Fitzgerald *et al.* (2000)	J. Ross Fitzgerald
122	122	Cow	Ireland	6	72	12	43	49	67	59	151	151	t529	2	33	NT	23	29	35	37	32	NT	Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
113	113	Cow	Ireland	6	72	12	43	49	67	59	151	151		2									Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
114	114	Cow	Ireland	6	72	12	43	49	67	59	151	151		2									Fitzgerald *et al.* (2001)	J. Ross Fitzgerald

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121	121	Cow	Ireland	6	72	12	43	49	67	59	151	151		2									Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
124	124	Cow	Ireland	6	72	12	43	49	67	59	151	151		2									Fitzgerald *et al.* (2000)	J. Ross Fitzgerald
1047	1047	Cow	USA	6	79	51	47	7	70	61	350	NK		2	29	26	25	30	37	41	34	24	Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
961	961	Cow	USA	3	78	1	1	1	5	3	352	97	t1201	1	2	10	22	8	27	19	10	11	Fitzgerald *et al.* (1997)	J. Ross Fitzgerald
1003	1003	Cow	USA	3	78	1	1	1	5	3	352	97		1									Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
1011	1011	Cow	USA	3	78	1	1	1	5	3	352	97		1									Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
DS42	CH505	Cow	Argentina	52	79	54	18	56	32	65	479	479		2										José Penadés
17.1	17.1	Cow	USA	3	126	1	37	1	5	3	693	97		1									Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
1468	1468	Cow	USA	3	68	1	4	1	5	89	694	126	t605	2	7	10	14	33	36	38	10	18	Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
13.1	13.1	Cow	USA	6	66	46	69	91	50	18	695	133		1									Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
DS35	1A	Cow	Spain	6	66	46	19	7	50	18	696	133	t2678	1	23	29	3	27	34	15	30	9		José Penadés
DS70	DS70	Cow	Sweden	3	78	1	1	1	5	91	697	97		1	2	10	22	8	27	19	10	11		
PSA5	PSA5	Cow	USA	16	127	12	2	13	13	15	698	50	t519	4	15	18	12	15	40	18	19	13	Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
1547	1547	Cow	USA	1	89	1	15	1	4	3	699	Singleton		3	19	3	21	32	18	39	5	15	Fitzgerald *et al.* (2001)	J. Ross Fitzgerald
1007	1007	Cow	USA	1	4	99	4	12	1	10	708	5		2	2	3	2	1	6	5	37	14	Smyth *et al.* (2005)	J. Ross Fitzgerald
DS41	CH501	Cow	Argentina	3	1	1	1	95	5	92	709	1		1										José Penadés
DS30	St153	Goat	Italy	7	6	1	5	8	8	6	22	22	t005	1	3	7	3	4	5	1	2	3	Foschino *et al.* (2002)	Robert Foschino
DS27	St125	Goat	Italy	4	1	4	1	5	5	4	25	25	t078	1	7	15	9	8	28	22	12	4	Foschino *et al.* (2002)	Robert Foschino
DS25	St24	Goat	Italy	2	2	2	2	2	2	2	39	30		3	5	5	4	7	2	4	8	2	Foschino *et al.* (2002)	Robert Foschino
DS1	none	Goat	Austria	18	1	1	1	1	5	3	71	97		1									Smyth *et al.* (2005)	Petra Winter
DS29	St51	Goat	Italy	3	1	14	15	11	19	3	101	101	t056	1	19	3	9	12	7	23	6	7	Foschino *et al.* (2002)	Robert Foschino
DS11	St108	Goat	Italy	3	68	1	4	1	5	40	126	126		2									Foschino *et al.* (2002)	Robert Foschino
DS18	St36	Goat	Italy	3	68	1	4	1	5	40	126	126		2									Foschino *et al.* (2002)	Robert Foschino
DS6	St31	Goat	Italy	3	68	1	4	1	5	40	126	126		2									Foschino *et al.* (2002)	Robert Foschino
DS7	St57	Goat	Italy	3	68	1	4	1	5	40	126	126		2									Foschino *et al.* (2002)	Robert Foschino
DS9	St60	Goat	Italy	3	68	1	4	1	5	40	126	126		2									Foschino *et al.* (2002)	Robert Foschino

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DS13	St7	Goat	Italy	6	66	46	2	7	50	18	133	133		1	23	29	3	27	34	15	30	9	Foschino *et al.* (2002)	Robert Foschino
DS74	1563-4	Goat	Norway	6	66	46	2	7	50	18	133	133		1	30	29	3	27	34	15	30	10	Mork *et al.* (2005)	Tore Tollersrud
DS14	St34	Goat	Italy	6	66	46	2	7	50	18	133	133		1									Foschino *et al.* (2002)	Robert Foschino
DS15	St62	Goat	Italy	6	66	46	2	7	50	18	133	133		1									Foschino *et al.* (2002)	Robert Foschino
DS16	St144	Goat	Italy	6	66	46	2	7	50	18	133	133		1									Foschino *et al.* (2002)	Robert Foschino
DS2	None	Goat	Austria	6	66	46	2	7	50	18	133	133		1									Smyth *et al.* (2005)	Petra Winter
DS28	St152	Goat	Italy	6	66	46	2	7	50	18	133	133		1									Foschino *et al.* (2002)	Robert Foschino
DS73	1518-2	Goat	Norway	6	66	46	2	7	50	18	133	133		1									Mork *et al.* (2005)	Tore Tollersrud
DS75	1589-1	Goat	Norway	6	66	46	2	7	50	18	133	133		1									Mork *et al.* (2005)	Tore Tollersrud
DS76	1589-2	Goat	Norway	6	66	46	2	7	50	18	133	133		1									Mork *et al.* (2005)	Tore Tollersrud
DS77	213-10	Goat	Norway	6	66	46	2	7	50	18	133	133		1									Mork *et al.* (2005)	Tore Tollersrud
DS78	213-8	Goat	Norway	6	66	46	2	7	50	18	133	133		1									Mork *et al.* (2005)	Tore Tollersrud
DS81	243-7	Goat	Norway	6	66	46	2	7	50	18	133	133		1									Mork *et al.* (2005)	Tore Tollersrud
DS80	232-11	Goat	Norway	6	57	63	2	7	58	52	480	130		1	26	28	26	26	33	36	33	21	Mork *et al.* (2005)	Tore Tollersrud
DS17	St11	Goat	Italy	18	95	45	2	7	15	5	522	703		1	28	27	3	28	NT	15	31	NT	Foschino *et al.* (2002)	Robert Foschino
DS4	None	Goat	Austria	18	95	45	2	7	15	5	522	703		1									Smyth *et al.* (2005)	Petra Winter
DS24	St16	Goat	Italy	6	57	45	2	7	95	52	700	130		3	27	27	24	26	33	23	28	20	Foschino *et al.* (2002)	Robert Foschino
DS3	None	Goat	Italy	6	129	46	2	7	50	18	701	133		1									Smyth *et al.* (2005)	Petra Winter
DS20	St66	Goat	Italy	18	128	45	2	7	15	5	703	703	t1534	1	28	27	3	28	NT	15	31	NT	Foschino *et al.* (2002)	Robert Foschino
DS19	St65	Goat	Italy	18	128	45	2	7	15	5	703	703		1									Foschino *et al.* (2002)	Robert Foschino
DS21	St67	Goat	Italy	18	128	45	2	7	15	5	703	703		1									Foschino *et al.* (2002)	Robert Foschino
DS23	St140	Goat	Italy	18	128	45	2	7	15	5	703	703		1									Foschino *et al.* (2002)	Robert Foschino
DS51	KH365	Rabbit	Belgium	1	1	1	1	1	1	1	1	1	t127	3	11	3	8	1	18	12	17	6	Hermans *et al.* (2000)	Dieter Vancraeynest
DS47	KH275	Rabbit	Belgium	3	3	1	1	4	4	3	8	8		1									Hermans *et al.* (2000)	Dieter Vancraeynest
DS48	KH21	Rabbit	Belgium	12	1	1	15	11	1	40	96	96		3	19	32	9	1	10	42	35	25	Hermans *et al.* (2000)	Dieter Vancraeynest
DS32	PS17	Rabbit	Spain	12	1	1	15	11	1	40	96	96		3										José Penadés

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DS34	PS21	Rabbit	Spain	12	1	1	15	11	1	40	96	96		3										José Penadés
DS52	KH15	Rabbit	Belgium	12	1	1	15	11	1	40	96	96		3									Hermans *et al.* (2000)	Dieter Vancraeynest
DS50	KH17	Rabbit	Belgium	3	1	1	1	1	5	3	97	97	r07	1	2	10	9	8	27	19	10	5	Hermans *et al.* (2000)	Dieter Vancraeynest
DS54	KH16	Rabbit	Belgium	3	1	1	1	1	5	3	97	97		1									Hermans *et al.* (2000)	Dieter Vancraeynest
DS46	KH454	Rabbit	Belgium	6	5	6	2	7	14	5	121	121	t645	4	25	30	3	11	21	15	11	22	Hermans *et al.* (2000)	Dieter Vancraeynest
DS31	PS15	Rabbit	Spain	6	5	6	2	7	14	5	121	121		4										José Penadés
DS53	KH513	Rabbit	Belgium	6	5	6	2	7	14	5	121	121		4									Hermans *et al.* (2000)	Dieter Vancraeynest
DS33	PS19	Rabbit	Spain	3	3	57	1	4	4	67	407	8	t656	1	2	2	3	1	41	6	3	17		José Penadés
DS96	2	Sheep	Denmark	18	1	1	1	1	5	3	71	97		1									Mork *et al.* (2005)	Tore Tollersrud
DS83	891-1	Sheep	Norway	6	66	46	2	7	50	18	133	133	t2678	1	23	29	3	27	34	15	30	9	Mork *et al.* (2005)	Tore Tollersrud
DS104	2114	Sheep	Iceland	6	66	46	2	7	50	18	133	133		1									Mork *et al.* (2005)	Tore Tollersrud
DS105	2463	Sheep	Iceland	6	66	46	2	7	50	18	133	133		1									Mork *et al.* (2005)	Tore Tollersrud
DS87	681-2	Sheep	Norway	6	66	46	2	7	50	18	133	133		1									Mork *et al.* (2005)	Tore Tollersrud
DS88	571-2	Sheep	Norway	6	66	46	2	7	50	18	133	133		1									Mork *et al.* (2005)	Tore Tollersrud
DS89	586-2	Sheep	Norway	6	66	46	2	7	50	18	133	133		1									Mork *et al.* (2005)	Tore Tollersrud
DS90	895-1	Sheep	Norway	6	66	46	2	7	50	18	133	133		1									Mork *et al.* (2005)	Tore Tollersrud
DS102	6659-2	Sheep	Sweden	6	72	50	43	49	67	59	705	151		2									Mork *et al.* (2005)	Tore Tollersrud
DS95	1	Sheep	Denmark	86	3	1	1	1	1	10	706	1		2									Mork *et al.* (2005)	Tore Tollersrud

*ST, Multilocus sequence type, given by the combination of *arcC*, *aroE*, *glpF*, *gmk*, *pta*, *tpi* and *yqiL*.
†CC, eBURST clonal complex. Singletons were STs that could not be placed into a clonal complex. NK, Not known, STs belonged to a CC with no defined ancestor.
‡Ridom, *spa* type.
§*agr* type, accessory gene regulator type.
||*sas* type, type obtained by *sas* typing given by the combination of *sasA*, *sasB*, *sasD*, *sasE*, *sasF*, *sasH* and *sasI*.

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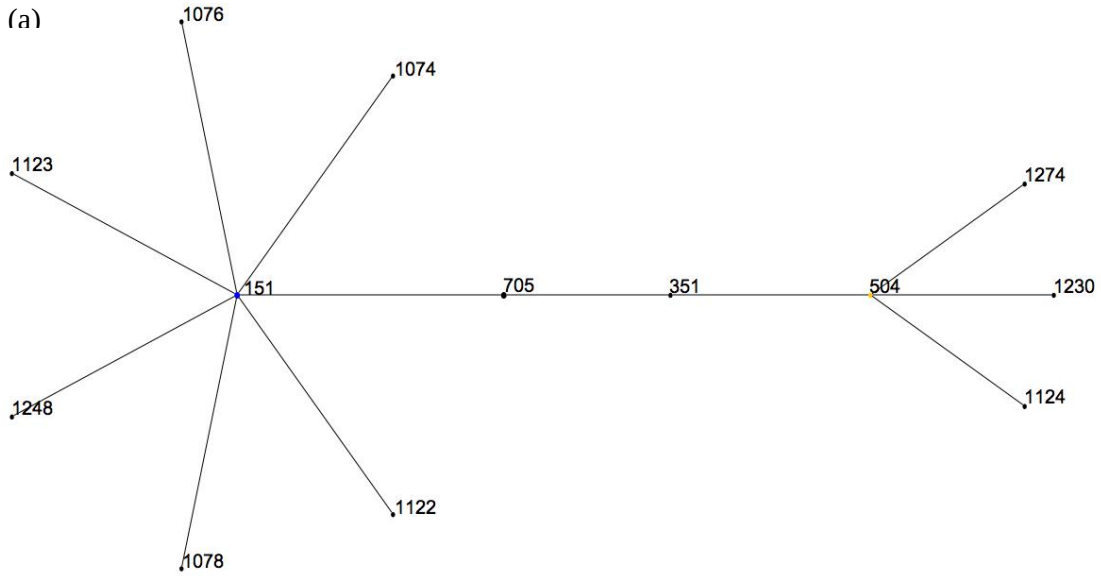
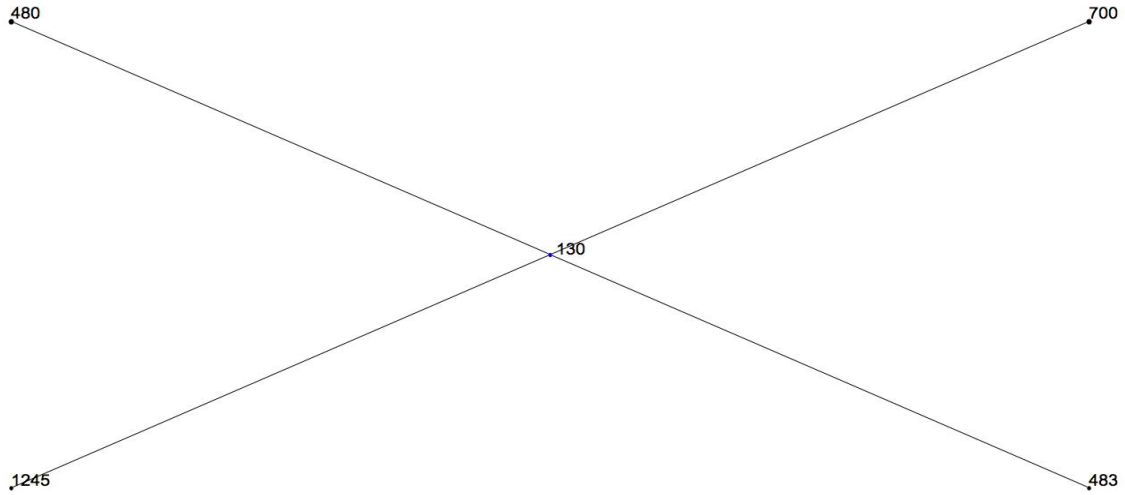
(a)



(b)

Smyth, D. S., Feil, E. J., Meaney, W. J., Hartigan, P. J., Tollersrud, T., Fitzgerald, J. R., Enright, M. C. & Smyth, C. J. (2009). Molecular genetic typing reveals further insights into the diversity of animal-associated *Staphylococcus aureus*. *J Med Microbiol* **58**, 1343-1353.

(c)



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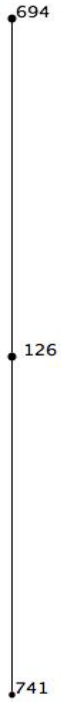

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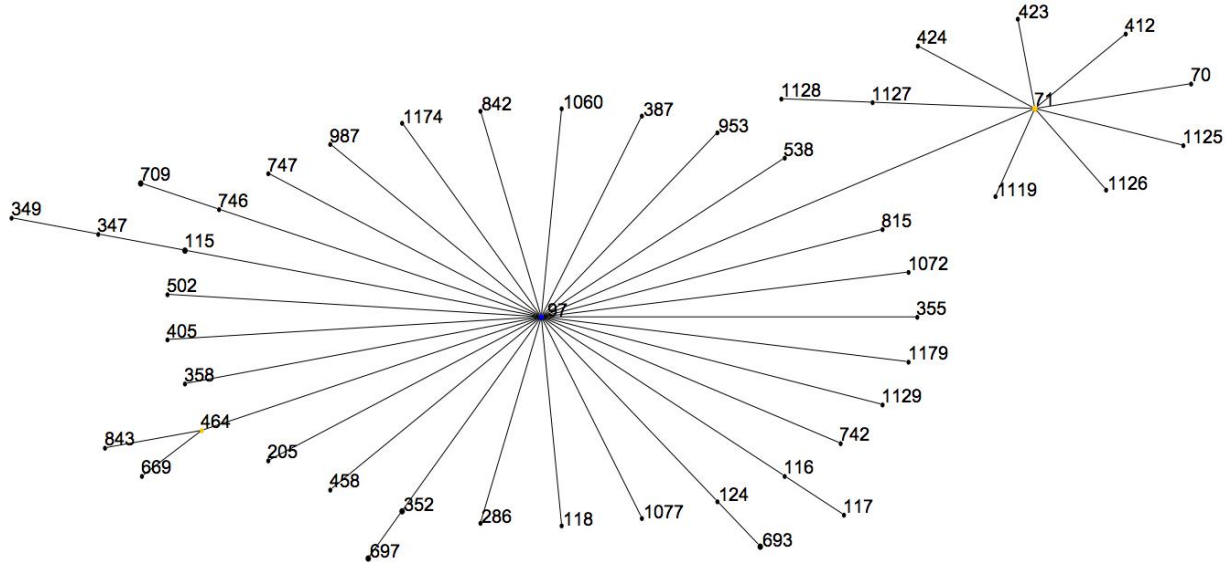

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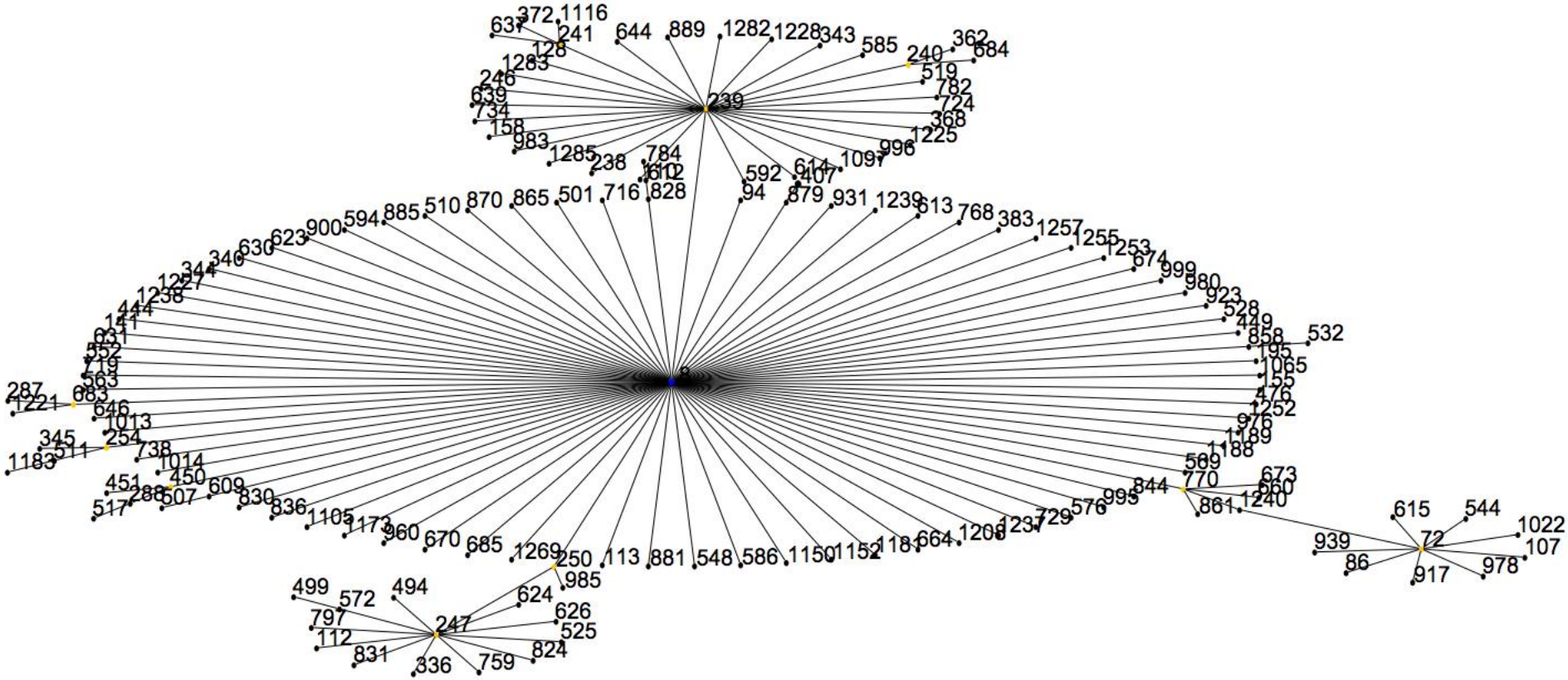
(f)



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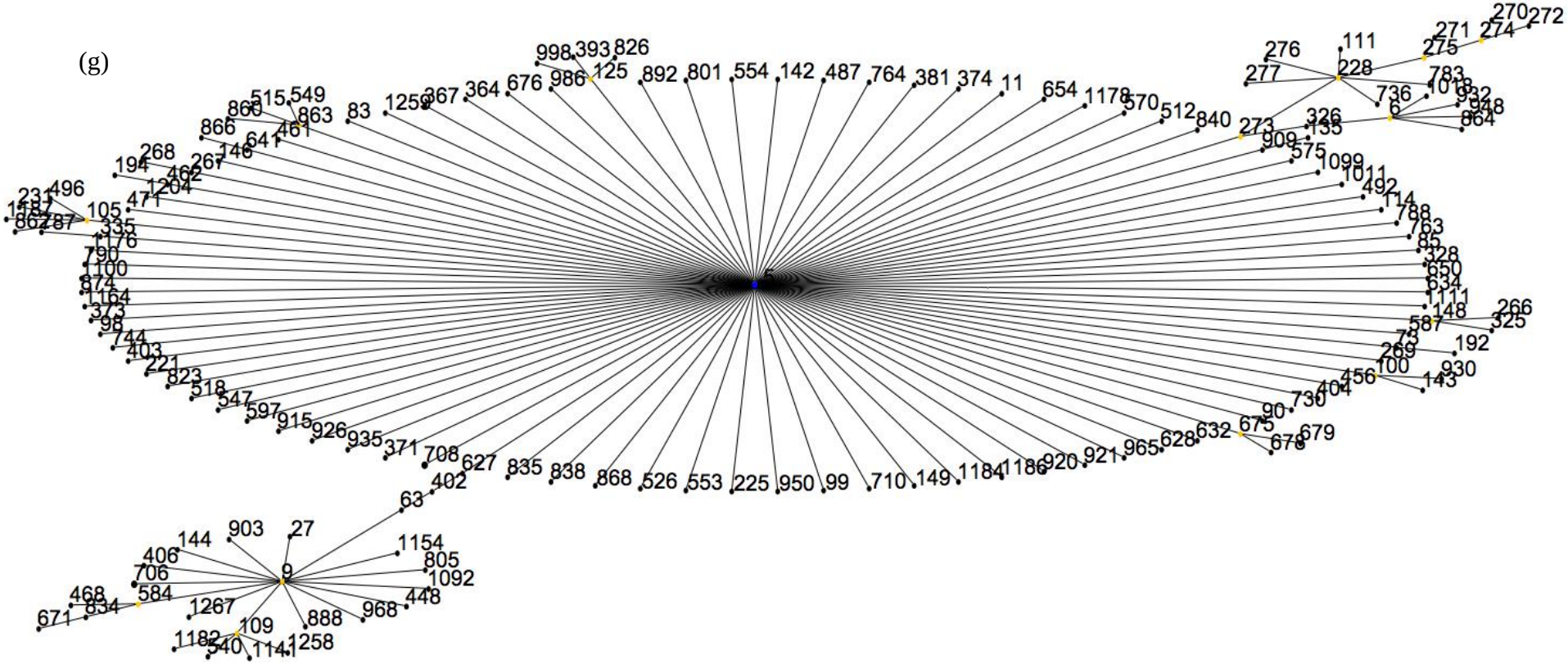
(g)



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Supplementary Fig. S1. Additional clonal complexes (CCs) containing previously identified animal-associated sequence types (STs) are shown. (a) CC151 contains bovine animal- and milk-associated STs from the Netherlands (ST124, 504, 705 and 1123), USA (ST351) and the UK (151, 1074, 1076, 1078 and 1123). (b) This CC contains ST703, identified in Italian goats in the current study, and ST522, identified in Italian and Austrian goats in the current study. ST522 was also identified in goat's milk from Portugal. (c) CC130 contains ruminant-associated STs. ST130 (also identified in a Norwegian cow), 480 and 483 were identified in Norwegian goats, and ST700 was identified in an Italian goat. (d) CC126 contains bovine-associated STs from the USA, ST126 and ST694 (identified herein), and Brazil (ST741). (e) CC97 contains multiple bovine- and human-associated STs. Of the bovine-associated STs, ST70, 97, 124, 352, 1119, 1125, 1126, 1127, 1128 and 1129 were from the Netherlands; ST124, 347, 349 were from the USA; ST352 and 358 were from Chile; ST116, 117, 118, 1072 and 1077 were from the UK; ST355, 742 and 746 were from Brazil; and ST115 was from Canada. An additional ST, ST747, was found in a Brazilian ostrich. CC8 (f) and CC5 (g) both contain predominantly human-associated STs. Of CC8, bovine isolates of ST8 and rabbit isolates of ST407 were identified in the current study. Of CC5, chicken isolates of ST5, a sheep isolate of ST706 and a bovine isolate of ST708 were identified.

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