

Table S1A: Conservation of T2SS apparatus genes among *L. pneumophila* strains.

Strain	Source	Percent identity to the <i>lsp</i> gene of <i>L. pneumophila</i> strain 130b											
		<i>lspC</i>	<i>lspD</i>	<i>lspE</i>	<i>lspF</i>	<i>lspG</i>	<i>lspH</i>	<i>lspI</i>	<i>lspJ</i>	<i>lspK</i>	<i>lspL</i>	<i>lspM</i>	<i>lspO/pilD</i>
130b	clinical	100	100	100	100	100	100	100	100	100	100	100	100
Paris	clinical	99.41	99.37	98.79	98.50	100	94.57	97.6	99.02	97.20	97.63	97.44	98.95
Lens	clinical	100	99.49	98.79	99.25	100	98.91	99.2	100	99.07	99.21	99.36	99.65
Philadelphia-1	clinical	99.41	99.12	98.99	98.25	100	98.37	99.2	99.51	98.45	98.94	98.72	99.65
Sudbury	clinical	100	99.12	98.99	98.25	100	98.37	99.2	99.51	98.45	98.94	98.72	99.65
Thunderbay	clinical	100	99.12	98.99	98.25	100	98.21	99.2	99.51	98.45	98.94	98.72	99.65
Detroit-1	clinical	100	97.35	96.36	96.49	98.57	91.30	92.8	93.66	92.55	89.71	94.87	91.29
ATCC 43290	clinical	100	99.12	98.99	98.25	100	98.37	99.2	99.51	98.45	98.94	98.72	99.65
LPE509	environmental	99.41	99.12	98.99	98.25	100	98.37	99.2	99.51	98.45	98.94	98.72	99.65
Lorraine	clinical	100	99.49	98.79	98.75	100	95.11	97.6	99.02	98.76	98.42	98.72	99.30
Mississauga	clinical	98.82	98.74	98.58	98.50	100	96.20	96	99.02	98.45	97.89	98.08	96.52
Toronto-2005	clinical	100	99.37	98.99	98.50	100	95.11	97.6	99.02	97.83	98.42	97.44	98.61
Corby	clinical	99.41	98.74	98.58	98.50	100	96.20	96	99.02	98.14	97.89	98.08	98.61
ATCC 33215	clinical	99.41	99.12	98.99	98.25	100	98.37	99.2	99.51	98.45	98.94	98.72	99.65
Alcoy	clinical	100	98.74	98.58	98.50	100	96.20	96	99.02	98.14	97.89	98.08	98.61
ATCC 43283	clinical	100	98.74	98.58	98.75	100	93.48	97.6	99.02	98.14	97.89	98.08	96.52
ATCC 33737	environmental	99.41	96.21	96.76	96.24	99.29	89.13	92.8	94.63	94.41	89.45	96.15	88.85

Table S1B: Conservation of T2SS apparatus genes within the *Legionella* genus.^a

Species	Strain	Source	Percent identity to the <i>lsp</i> gene of <i>L. pneumophila</i> strain 130b											
			<i>lspC</i>	<i>lspD</i>	<i>lspE</i>	<i>lspF</i>	<i>lspG</i>	<i>lspH</i>	<i>lspI</i>	<i>lspJ</i>	<i>lspK</i>	<i>lspL</i>	<i>lspM</i>	<i>lspO/pilD</i>
<i>pneumophila</i>	130b	clinical	100	100	100	100	100	100	100	100	100	100	100	100
<i>adelaidensis</i>	ATCC49625	environmental	65.00	63.06	77.32	71.68	83.94	45.40	59.65	51.52	50.33	38.88	44.08	61.38
<i>anisa</i>	WA-316-C3	environmental	63.91	75.00	88.69	82.71	94.20	61.01	73.50	70.65	58.17	61.38	63.06	68.29
<i>birminghamensis</i>	CDC#1407-AL-14	clinical	41.29	67.82	79.39	76.94	87.59	46.25	60.33	58.91	49.02	40.89	43.51	58.04
<i>bozemanii</i>	WIGA	clinical	61.31	76.10	89.07	83.21	94.93	59.12	73.50	70.71	57.00	61.38	61.78	68.64
<i>brunensis</i>	ATCC43878	environmental	46.11	66.91	83.20	77.69	85.40	51.68	72.95	68.47	52.94	44.19	47.10	60.74
<i>cherrii</i>	ORW	environmental	61.18	75.57	89.70	81.45	94.93	61.40	70.69	69.85	57.10	61.48	61.15	72.13
<i>cincinnatiensis</i>	CDC#72-OH-14	clinical	56.81	75.47	87.88	81.70	93.48	61.54	68.55	71.14	59.48	58.05	63.46	69.69
<i>drancourtii</i>	LLAP12	environmental	62.72	74.30	89.29	83.58	92.75	65.69	71.67	partial ^b	70.94	59.37	66.67	67.60
<i>drozanskii</i>	ATCC700990	environmental	60.78	64.66	83.00	79.20	86.86	45.46	72.41	68.14	52.27	48.18	45.16	65.13
<i>dumoffii</i>	NY-23	environmental	60.36	75.28	89.29	80.95	94.93	62.58	73.50	69.19	57.98	60.42	61.78	72.13
<i>erythra</i>	SE-32A-C8	environmental	47.65	71.00	78.50	77.19	89.05	46.15	64.80	55.45	47.71	40.84	44.87	63.64
<i>feeleei</i>	WO-44C	environmental	60.95	70.44	81.74	80.15	84.67	45.75	72.17	58.91	51.47	43.72	45.16	61.19
<i>geestiana</i>	ATCC49504	environmental	54.29	65.47	77.89	71.68	82.86	44.67	54.39	52.53	40.00	34.65	37.82	48.23
<i>gomanii</i>	LS-13	environmental	60.00	75.28	89.50	82.71	93.48	58.62	66.67	71.14	60.59	61.91	59.62	71.78
<i>gratiana</i>	ATCC49413	environmental	58.58	74.72	88.69	82.46	92.75	62.13	68.55	72.86	59.67	57.52	64.74	67.73
<i>hackeliae</i>	798-PA-H	clinical	44.05	66.88	82.59	77.19	84.67	48.41	73.91	67.98	55.12	44.07	47.68	56.79
<i>israelensis</i>	Bercovier 4	environmental	58.58	68.48	81.71	74.62	81.30	53.79	67.50	65.84	48.69	46.31	44.87	64.69
<i>jamestowniensis</i>	JA-26-G1-E2	environmental	59.05	66.29	83.43	77.89	85.40	50.97	71.05	62.56	51.79	42.56	44.81	59.72
<i>jordanis</i>	BL-540	environmental	57.14	66.42	82.79	75.94	83.94	47.74	67.83	61.77	50.65	42.34	41.45	61.13
<i>lansingensis</i>	ATCC49751	clinical	47.13	66.22	83.43	78.95	83.21	46.15	68.64	68.63	53.75	46.39	48.68	59.09
<i>londiniensis</i>	ATCC49505	environmental	57.43	66.20	79.75	72.11	78.83	51.15	60.87	53.03	48.20	40.42	39.10	61.62
<i>longbeachae</i>	NSW150	clinical	56.00	74.56	88.08	81.96	93.48	63.87	69.60	71.14	58.82	59.47	64.10	68.64
<i>maceachernii</i>	PX-1-G2-E2	environmental	47.62	65.38	83.60	77.69	88.32	48.05	69.83	60.10	52.60	45.23	44.74	62.64
<i>micdadei</i>	TATLOCK	clinical	61.77	67.18	84.41	79.45	86.86	46.75	74.36	62.56	52.27	45.95	42.76	64.18
<i>moravica</i>	ATCC43877	environmental	68.64	81.46	89.68	85.43	93.53	70.24	80.83	75.39	64.84	62.53	73.72	73.52
<i>nautarum</i>	ATCC49506	environmental	61.77	64.63	83.00	79.70	89.78	46.58	72.41	68.14	50.65	46.35	45.81	66.90
<i>oakridgensis</i>	Oak Ridge-10	environmental	60.58	67.13	81.41	77.14	83.57	50.85	66.96	53.96	50.33	43.75	49.03	64.79
<i>parisiensis</i>	PF-209-C-C2	environmental	61.31	76.07	89.50	82.96	94.93	60.38	73.50	71.72	57.00	60.32	60.51	69.34
<i>quateirensis</i>	ATCC49507	environmental	61.31	76.07	89.50	82.96	94.93	60.38	73.50	71.72	57.00	60.32	60.51	69.34
<i>quinlivanii</i>	CDC#1442-AUS-E	environmental	41.03	68.58	81.82	76.44	86.86	45.75	61.02	58.50	47.71	40.31	38.96	58.54
<i>rubrilucens</i>	WA-270A-C2	environmental	46.47	70.04	79.11	77.44	88.32	45.63	65.08	55.67	48.38	40.31	44.23	64.36
<i>sainthelensi</i>	Mt.St.Helens-4	environmental	59.17	75.06	88.28	82.46	92.03	59.76	69.36	71.14	60.13	59.37	63.46	70.38
<i>santicrucis</i>	SC-63-C7	environmental	57.40	74.94	88.49	82.71	92.75	61.54	68.29	70.65	57.52	60.00	63.46	71.08
<i>shakespearei</i>	ATCC49655	environmental	69.41	84.20	87.85	86.50	93.53	70.91	79.31	77.83	66.88	60.69	67.31	71.78
<i>spiritensis</i>	Mt.St.Helens-9	environmental	42.86	69.32	81.58	78.64	86.13	47.21	67.77	56.65	53.42	44.13	45.46	62.55
<i>steelei</i>	IMVS3376	clinical	59.76	75.82	88.46	81.96	93.48	63.52	70.94	70.85	59.28	59.52	65.61	71.43
<i>steigerwaltii</i>	SC-18-C9	environmental	61.18	76.20	89.68	81.70	92.75	56.22	70.16	70.20	58.69	60.58	64.97	72.13
<i>tucsonensis</i>	ATCC49180	clinical	63.31	76.13	89.09	83.46	92.75	61.78	73.28	67.16	57.66	61.38	62.42	71.08
<i>waltersii</i>	ATCC51914	environmental	63.91	82.24	87.25	85.18	97.14	63.10	74.14	80.10	66.99	59.00	68.59	67.02
<i>worsleiensis</i>	ATCC49508	environmental	67.46	79.95	88.06	85.71	92.09	69.64	78.13	73.40	60.34	57.41	67.95	69.34
Avg. identity			57.38	71.91	85.14	79.99	89.56	55.20	69.79	66.06	55.33	51.54	54.25	65.71

^a Homologues within the *Legionella* genus were conservatively predicted using an E value cutoff of $<1 \times 10^{-20}$ and an alignment length of at least 80% (Gomez-Valero L, Rusniok C, Rolando M, Neou M, Dervins-Ravault D, Demirtas J, et al. Genome Biol 15:505, 2014).

^b the *lspJ* gene of *L. drancourtii* lies at the end of a contig, thus we cannot conclude whether the entire gene is intact.