Table S1
The effect of temperature on binding of six strains of *C. jejuni* to natural mucins on a mucin microarray

C. jejuni strain	81-176		11168		CC18		CC19		H1		H3	
Temperature	37°C	42°C	37°C	42°C	37°C	42°C	37°C	42°C	37°C	42°C	37°C	42°C
Mucin Source												
Bovine Abomasum	2780	3563	1903	3011	3496	3312	2750	3643	2337	2715	2459	1999
Bovine Cervico-Vaginal	472	585	623	334	535	645	354	433	543	624	535	477
Bovine Cervix	497	433	398	443	543	678	545	366	232	535	443	642
Bovine Duodenum	795	559	848	844	834	864	855	785	922	748	634	867
Bovine Spiral Colon	1131	1021	1088	1053	1026	1192	1201	1183	1155	1012	1251	1200
Bovine Trachea	533	605	404	574	550	404	592	599	601	440	491	501
Bovine Endometrium	554	530	626	510	593	526	501	553	494	440	601	502
Chicken Cecum	3884	4955	4293	3943	4012	3112	3993	4202	3325	3930	3495	4026
Chicken Proximal Small Intestine	8775	9023	9024	8234	8350	8153	8334	8530	8493	8993	9211	9002
Chicken Large Intestine	14344	13902	15331	14495	15343	16011	14650	15355	14553	15323	14013	14563
Deer Abomasum	2021	2102	1974	2587	2487	2683	1987	1975	2528	2012	1973	2879
Deer Duodenum	121	188	90	153	189	148	14	83	87	183	91	91
Deer Jejunum	144	204	214	158	159	109	122	158	153	109	150	153
Deer Spiral Ascending Colon	816	910	843	835	935	941	853	913	914	841	813	989
HT29-MTX-E12 cells	3192	3045	3791	3791	4103	3158	3719	3799	3314	3914	3489	3809
Equine Dorsal Ascending Colon	925	882	953	834	913	891	981	801	984	984	981	834
Equine Duodenum	1183	1301	1322	1879	948	1029	994	1357	1464	1598	1895	1754
Equine Left Ventral Ascending Colon	1883	2012	2014	2089	1830	1987	1793	1970	1873	1210	1309	1893
Equine Right Ventral Ascending Colon	3255	3422	3109	3180	3148	3109	3170	3104	3805	3570	3809	3147
Equine Jejunum	1891	1922	1937	1914	1957	1893	1997	1834	1410	1519	1893	1823
Equine Stomach	218	319	401	146	149	143	134	192	292	243	298	109
Equine Trachea	313	291	309	241	241	257	214	227	252	210	310	359
LS174T cells	4298	3129	3158	3570	3015	3517	3170	4391	4513	4709	3914	4417

Mouse Cecum	483	529	440	501	512	410	409	401	391	519	480	487
Mouse large Intestine	1001	1210	1144	1348	1529	1431	1414	1523	1312	1118	1409	1201
Mouse Small Intestine	202	291	210	291	289	241	247	209	244	248	240	248
Mouse Stomach	694	553	585	646	658	535	691	594	647	643	634	630
Ovine Abomasum Antrum	343	422	367	374	363	455	358	458	444	398	458	346
Ovine Descending Colon	866	829	814	941	901	791	770	942	912	888	841	848
Ovine Duodenum	1576	1492	1784	1875	1874	1986	1987	1958	1763	1758	1644	1673
Ovine Ileum	724	1022	809	893	934	895	986	972	852	879	863	998
Ovine Jejunum	652	733	598	889	733	985	895	935	873	674	678	871
Ovine Spiral Colon	2654	3822	3079	2063	3986	3964	3061	2794	2989	2869	3141	2986
Porcine Cecum	4221	4292	4142	4014	4757	4894	4186	4870	4109	4171	4794	4014
Porcine Descending Colon	1423	1953	1773	1265	1655	1986	2025	1886	1722	1775	1636	1557
Porcine Jejunum	1055	1293	1095	1098	1092	1071	906	998	859	894	906	994
Porcine Spiral Colon	1211	1402	1265	1153	1862	1289	1165	1256	1152	1231	1545	1522
Porcine Stomach	2522	3211	3636	2613	3856	2346	2751	2247	2272	2727	2134	2277
Rat Cecum	1031	1320	937	993	917	974	1682	1277	1157	1156	1256	1163
Rat Colon	1011	922	1111	1163	914	891	987	1176	1215	1151	913	910
Rat Duodenum	902	645	742	586	946	272	468	409	640	358	994	843
Rat Ileum	501	656	856	347	824	865	796	286	444	382	358	727
Rat Stomach	1101	1204	1215	1098	916	1689	1189	1161	869	987	1094	1118

Binding of six strains of *C. jejuni*, including the well characterised 8176 and 1168 strains, two recent chicken isolates and two recent human clinical isolates, to native mucins printed on a microarray. Binding was tested at two different temperatures 37^{o}C and 42^{o}C. Values represent the mean fluorescent value from duplicate individual microarrays across 3 different array slides

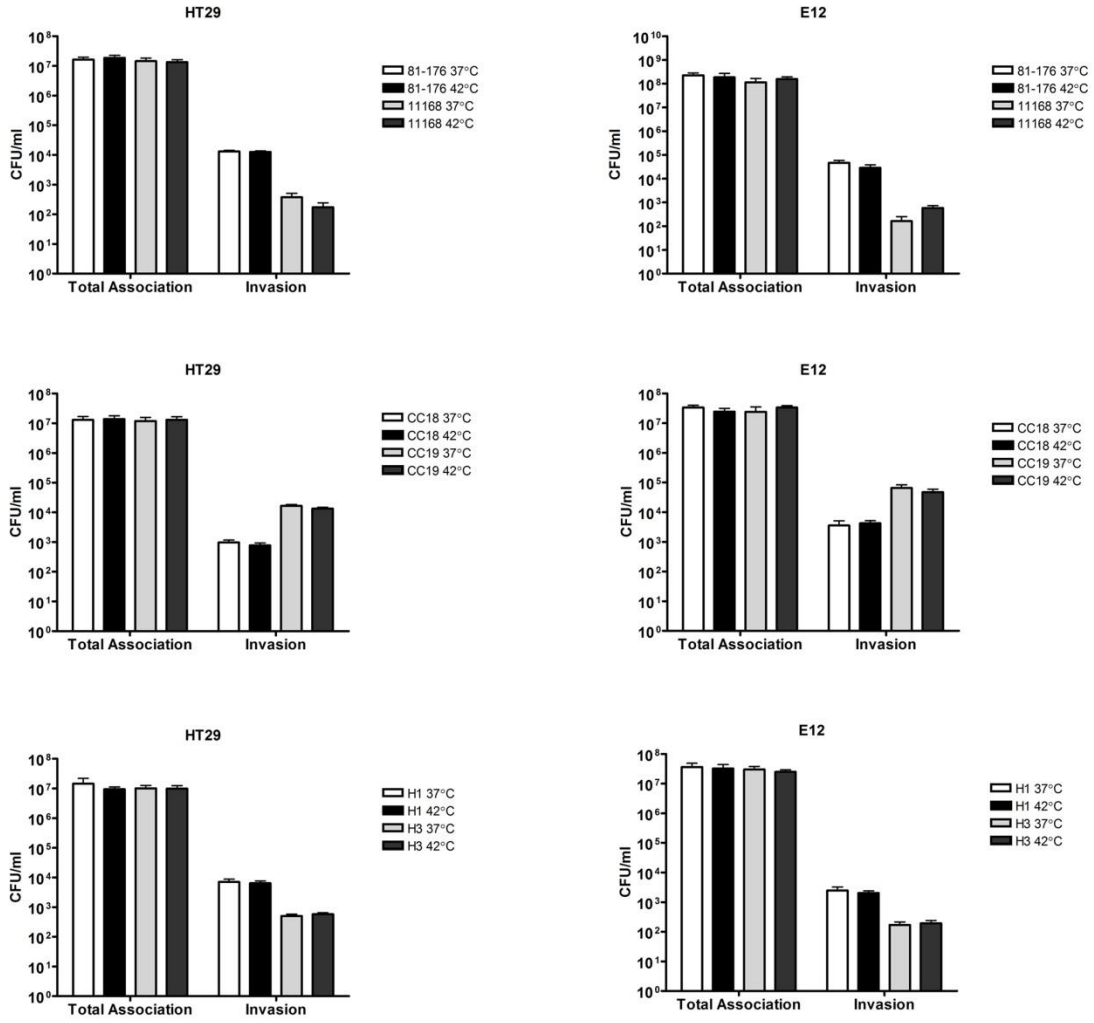

Figure S1

Effect of temperature on *C. jejuni* infection and invasion of colonic cell lines. To determine the effect of temperature on *C. jejuni* infection and invasion, 6 strains of *C. jejuni* were grown at 37°C or 42°C for 24 hours. HT29 and HT29-MTX-E12 cells grown for 21 days were infected with *C. jejuni* and incubated at either 37°C or 42°C for 4 hours. A total association assay was used to determine cell associated bacteria, invasion was quantified by enumeration of internalised bacteria following gentamicin treatment. Data are presented as mean ± standard deviation (error bars). n=6 for each group. Temperature had no significant impact on either total association or invasion of either cell line (p<0.001).