

Supplementary Table 1. Overview of subjects participating in this study

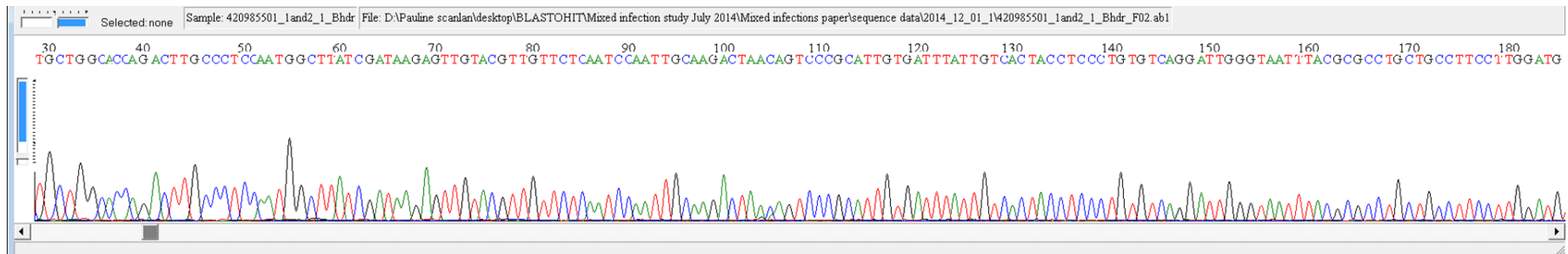
Sample Number	Country of residence	Race	Age	Gender	Stratification	Dietary regimes	Antibiotics in the last three months
EM10	Ireland	Caucasian	75	Female	Elderly	No	No
EM100	Ireland	Caucasian	41	Female	Non-Elderly	No	No
EM101	Ireland	Caucasian	46	Female	Non-Elderly	No	No
EM103	Ireland	Caucasian	36	Female	Non-Elderly	No	No
EM104	Ireland	Caucasian	32	Male	Non-Elderly	No	No
EM105	Ireland	Caucasian	28	Female	Non-Elderly	No	No
EM12	Ireland	Caucasian	74	Female	Elderly	No	No
EM13	Ireland	Caucasian	77	Male	Elderly	No	No
EM14	Ireland	Caucasian	66	Male	Elderly	No	No
EM17	Ireland	Caucasian	85	Female	Elderly	No	No
EM18	Ireland	Caucasian	65	Female	Elderly	No	No
EM19	Ireland	Caucasian	72	Female	Elderly	No	No
EM21	Ireland	Caucasian	73	Female	Elderly	No	No
EM23	Ireland	Caucasian	67	Male	Elderly	No	No
EM24	Ireland	Caucasian	66	Male	Elderly	No	No
EM25	Ireland	Caucasian	73	Female	Elderly	No	No
EM27	Ireland	Caucasian	72	Male	Elderly	No	No
EM30	Ireland	Caucasian	67	Female	Elderly	No	No
EM36	Ireland	Caucasian	70	Male	Elderly	No	No
EM37	Ireland	Caucasian	69	Female	Elderly	No	No
EM39	Ireland	Caucasian	65	Male	Elderly	No	No
EM40	Ireland	Caucasian	79	Male	Elderly	No	No

EM41	Ireland	Caucasian	78	Male	Elderly	No	No
EM42	Ireland	Caucasian	85	Male	Elderly	No	No
EM45	Ireland	Caucasian	65	Male	Elderly	No	No
EM47	Ireland	Caucasian	68	Female	Elderly	No	No
EM5	Ireland	Caucasian	76	Male	Elderly	No	No
EM51	Ireland	Caucasian	66	Female	Elderly	No	No
EM53	Ireland	Caucasian	69	Female	Elderly	No	No
EM54	Ireland	Caucasian	71	Male	Elderly	No	No
EM56	Ireland	Caucasian	77	Female	Elderly	No	No
EM57	Ireland	Caucasian	74	Female	Elderly	No	No
EM58	Ireland	Caucasian	68	Female	Elderly	No	No
EM59	Ireland	Caucasian	73	Male	Elderly	No	No
EM6	Ireland	Caucasian	71	Female	Elderly	No	No
EM63	Ireland	Caucasian	78	Female	Elderly	No	No
EM65	Ireland	Caucasian	69	Female	Elderly	No	No
EM68	Ireland	Caucasian	67	Female	Elderly	No	No
EM7	Ireland	Caucasian	74	Male	Elderly	No	No
EM72	Ireland	Caucasian	74	Female	Elderly	No	No
EM73	Ireland	Caucasian	76	Male	Elderly	No	No
EM75	Ireland	Caucasian	65	Female	Elderly	No	No
EM76	Ireland	Caucasian	69	Male	Elderly	No	No
EM79	Ireland	Caucasian	79	Female	Elderly	No	No
EM82	Ireland	Caucasian	78	Female	Elderly	No	No
EM85	Ireland	Caucasian	64	Female	Elderly	No	No
EM86	Ireland	Caucasian	86	Female	Elderly	No	No
EM93	Ireland	Caucasian	55	Male	Non-Elderly	No	No
EM96	Ireland	Caucasian	29	Female	Non-Elderly	No	No
EM99	Ireland	Caucasian	39	Female	Non-Elderly	No	No

Supplementary Table 2. Comparative analysis of ST-specific *Blastocystis* primer sets

Sample Number	Original Subtype detected	Results of ST specific nested PCR (this study)				Results of ST specific PCR using primers by Wang et al (1)			Results of ST specific PCR using STS primers published by Yoshikawa et al (2)			
		ST1	ST2	ST3	ST4	ST1	ST2	ST3	ST1	ST2	ST3	ST4
EM10	ST3			+			+					
EM100	ST2	+	+				+					
EM101	ST1	+				+			+			
EM103	ST3			+								
EM104	ST4			+	+							
EM105	ST4				+							
EM12	ST3			+				+				
EM13	ST3			+				+				
EM14	ST4				+							
EM17	ST2		+				+			+		
EM18	ST1	+				+			+			
EM19	ST2		+				+			+		
EM21	ST3			+				+				
EM23	ST3			+				+				
EM24	ST1	+			+	+						
EM25	ST4				+							
EM27	ST3			+				+				
EM30	ST3			+				+				
EM36	ST2	+	+	+			+					
EM37	ST1	+				+			+			
EM39	ST3	+		+				+				
EM40	ST3			+				+				

EM41	ST2		+			+		
EM42	ST4							+
EM45	ST3			+				+
EM47	ST4							+
EM5	ST3			+				+
EM51	ST4							+
EM53	ST4							+
EM54	ST3			+				+
EM56	ST3			+				+
EM57	ST3			+				+
EM58	ST3			+				+
EM59	ST3			+				+
EM6	ST3			+				+
EM63	ST2	+	+			+		
EM65	ST1	+						+
EM68	ST2	+	+			+		+
EM7	ST4							+
EM72	ST2	+	+			+		
EM73	ST2		+			+		
EM75	ST3	+		+				+
EM76	ST3	+		+				+
EM79	ST3			+				+
EM82	ST4							+
EM85	ST2		+			+		+
EM86	ST2		+			+		+
EM93	ST1	+				+		
EM96	ST3			+				+
EM99	ST3			+				+

A**B**

Supplementary Figure 1. Example of chromatograms showing (A) no evidence of a mixed infection using of template DNAs from ST1 and ST2 (the most common mixed infection detected) generated by primers RD5 and BhrDR; (B) mixed chromatogram of sequenced PCR products generated by primers RD5 and BhrDR using equal DNA concentrations of ST3 and ST4 as template DNAs.

References

1. **Wang W, Owen H, Traub RJ, Cuttell L, Inpankaew T, Bielefeldt-Ohmann H.** 2014. Molecular epidemiology of Blastocystis in pigs and their in-contact humans in Southeast Queensland, Australia, and Cambodia. *Vet Parasitol* **203**:264-269.
2. **Yoshikawa H, Wu Z, Kimata I, Iseki M, Ali IK, Hossain MB, Zaman V, Haque R, Takahashi Y.** 2004. Polymerase chain reaction-based genotype classification among human Blastocystis hominis populations isolated from different countries. *Parasitol Res* **92**:22-29.