

## Ancestral reconstruction 2. Geographic inference of the sources of clades within the Para C Lineage

Clade	Para C Lineage minus Lomita plus Birkenhead			Para C Lineage minus Lomita minus Ragna		
	BayesTraits MCMC	RASP BBM	BayesTraits ML	BayesTraits MCMC	RASP BBM	BayesTraits ML
modern Paratyphi C	<b>Europe:61.06%</b> Africa:38.91%	<b>Europe:98.23%</b>	Europe:54.51% Africa:44.93%	<b>Europe:65.75%</b> Africa:34.25%	<b>Europe:94.28%</b>	<b>Europe:62.40%</b> Africa:37.38%
Paratyphi C including Ragna	<b>Europe:99.67%</b>	<b>Europe:99.60%</b>	<b>Europe:94.90%</b>	-	-	-
Typhisuis	Europe:56.43% ; Americas:43.37%	<b>Europe:95.43%</b>	Europe:48.49% ; Americas:49.03%	Europe:56.31% ; Americas:43.49%	Europe- Americas:7.53% <b>Americas:87.20%</b>	Europe:48.77% ; Americas:48.77%
Paratyphi C & Typhisuis	<b>Europe:98.34%</b>	<b>Europe:98.64%</b>	Europe:59.28% Americas:15.84% Africa:13.09% Asia:11.79%	<b>Europe:93.08%</b>	<b>Europe:94.51%</b>	Europe:42.97% Americas:15.87% Africa:26.65% Asia:14.51%;
Choleraesuis var. Kunzendorff	<b>Europe:86.09%</b> Asia:13.83%	Europe:23.49% <b>Asia:62.77%</b> Asia- Europe:11.20%	<b>Europe:82.47%</b> Asia:16.14%	<b>Europe:86.96%</b> Asia:12.96%	Europe:36.08% Asia:50.54% Asia- Europe:10.47%	<b>Europe:83.69%</b> Asia:15.00%
Choleraesuis s.s.	Europe:16.39% Americas:35.51% Asia:48.03%	Europe:36.57% Asia:49.33% Asia-Europe: 9.70%	Europe:9.95% America:42.87% Asia:46.19%	Europe:16.28% Americas:35.38% Asia:48.25%;	Europe:45.58% Asia:40.11% Asia- Europe:9.68%	Europe:9.97% Americas:42.65% Asia:46.39%;
Choleraesuis	Europe:40.14% Africa:45.86% Asia:12.88%	Europe:40.26% Africa:40.26% Asia:9.03%	Europe:24.40% Asia: 20.65% Africa:50.18%	Europe:40.32% Africa:46.15% Asia:12.42%	Europe:45.65% Africa:39.79% Asia:6.34% Africa- Europe:5.58%	Europe:24.84% Africa:51.07% Asia:19.43%
Para C Lineage (w/o Lomita)	<b>Europe:99.16%</b>	<b>Europe:88.48%</b> Africa:5.99%	Europe:56.84% Africa:22.28% Americas:8.08% Asia:12.80%;	<b>Europe:93.66%</b> Africa:5.97%	<b>Europe:80.83%</b> Africa:12.11%	Europe:40.02% Americas:7.36% Africa:38.92%; Asia:13.70%;

NOTE: A phylogenetic tree based on BayesTraits can be seen in Ancestral reconstruction 1.

Lomita was excluded due to the absence of geographical data for that strain.

**Bold font:** Assignment probabilities of >60%