

**Supplemental table S1.** Prevalence of acanthocephalans and microsporidians in *G. fossarum* by sex.

Sex	Acanthocephala		Microspora		Acanthocephala + Microspora
	No. of examined <i>G. fossarum</i>	No. infected (%)	No. of examined <i>G. fossarum</i>	No. infected (%)	No. infected (%)
Male	160	88 (55.0)	121	94 (77.7)	46 (38.0)
Female	139	55 (39.6)	91	44 (48.4)	10 (11.0)
Total	299 <sup>a</sup>	143(47.8)	212 <sup>a</sup>	138 (65.1)	56 (26.4)

<sup>a</sup>The difference between no. of individuals examined for microsporidians and acanthocephalans is due to the fact that the gammarids used for metal analysis could not be tested for microsporidians by PCR.