

**Table S5** Results of Pearson's and Kendall's correlation tests between  $D'$  and  $r^2$  values in nine-spined stickleback

populations and habitat types.

Population	Pearson's correlation coefficient	Kendall's correlation coefficient
Hel (M)	0.178**	0.277**
Sbol (M)	0.180**	0.175**
Lev (M)	0.265**	0.263**
Kro (L)	0.291**	0.307**
Ska (L)	0.160	0.175*
Por (L)	0.117	0.105*
L1 (L)	0.317**	0.371**
Rah (L)	0.149*	0.081
Byn (P)	0.244**	0.265**
Pyo (P)	0.106	-0.146
Rbol (P)	0.231**	0.279**
Ryt (P)	0.176*	0.218**
Mat (R)	0.263**	0.282**
Marine (combined data)	0.172**	0.195**
Lake (combined data)	0.274**	0.234**
Pond (combined data)	0.449**	0.417**
CF (combined data)	0.286**	0.304**
River	0.263**	0.282**

\* $P < 0.05$ , \*\* $P < 0.01$ . M, marine; L, lake; P, pond; R, river; CF, Coastal freshwater, including Kro, Rbol and Mat. The

population abbreviations are defined in Table 1.