**The genetic status of the Hungarian brown trout populations; exploration of a blind spot on the European map of *Salmo trutta* studies**

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**Supplemental Table 2**

**Table S2** Summary of the population genetic analyses of five microsatellite and two genomic PCR-RFLP loci for all sampled brown trout populations.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Pop** | **Loci** | **N** | **Na** | **Nma** | **Neff** | **Ar** |  | **He** | **Ho** | **Fis** | **Sign.** |
| **LF 1** | **MS Total** | **401** | **84** | **16.20** | **6.917** | **6.901** |  | **0.7721** | **0.7826** | **-0.0140** | **ns** |
|  | *BFRO002* |  | *5* |  | *1.859* | *2.940* |  | *0.4628* | *0.5138* | *-0.1100* | *ns* |
|  | *OMM1064* |  | *42* |  | *13.028* | *10.761* |  | *0.9244* | *0.9332* | *-0.0090* | *ns* |
|  | *Ssa408uos* |  | *17* |  | *10.141* | *9.185* |  | *0.9026* | *0.9497* | *-0.0520* | *ns* |
|  | *SsoSL417* |  | *11* |  | *6.148* | *6.798* |  | *0.8384* | *0.7688* | *0.0830* | *\*\** |
|  | *SsoSL438* |  | *9* |  | *3.708* | *4.823* |  | *0.7322* | *0.7474* | *-0.0210* | *ns* |
|  | **PCR-RFLP Total** | **401** | **4** | **2** | **1.699** | **1.995** |  | **0.4057** | **0.4414** | **-0.0880** | **\*\*** |
|  | *LDH-C1* |  | *2* |  | *1.874* | *2.000* |  | *0.4670* | *0.4763* | *-0.0200* | *ns* |
|  | *SL* |  | *2* |  | *1.524* | *1.989* |  | *0.3444* | *0.4065* | *-0.1800* | *\*\*\** |
| **LF 2** | **MS Total** | **243** | **93** | **18.60** | **7.004** | **6.848** |  | **0.7400** | **0.7805** | **-0.0550** | **ns** |
|  | *BFRO002* |  | *3* |  | *1.583* | *2.537* |  | *0.3691* | *0.4101* | *-0.1110* | *\** |
|  | *OMM1064* |  | *43* |  | *16.030* | *11.958* |  | *0.9405* | *0.9337* | *0.0070* | *ns* |
|  | *Ssa408uos* |  | *29* |  | *9.186* | *9.395* |  | *0.8931* | *0.9558* | *-0.0700* | *\*\*\** |
|  | *SsoSL417* |  | *9* |  | *4.922* | *5.733* |  | *0.7987* | *0.8186* | *-0.0250* | *ns* |
|  | *SsoSL438* |  | *9* |  | *3.298* | *4.615* |  | *0.6984* | *0.7841* | *-0.1230* | *ns* |
|  | **PCR-RFLP Total** | **243** | **4** | **2** | **1.515** | **1.927** |  | **0.3140** | **0.3058** | **0.0260** | **ns** |
|  | *LDH-C1* |  | *2* |  | *1.218* | *1.853* |  | *0.1790* | *0.1818* | *-0.0160* | *ns* |
|  | *SL* |  | *2* |  | *1.812* | *2.000* |  | *0.4490* | *0.4298* | *0.0430* | *ns* |
| **SZV** | **MS Total** | **75** | **73** | **10.25** | **6.271** | **7.276** |  | **0.7621** | **0.7646** | **-0.0030** | **ns** |
|  | *BFRO002* |  | *3* |  | *1.615* | *2.539* |  | *0.3835* | *0.3973* | *-0.0360* | *ns* |
|  | *OMM1064* |  | *36* |  | *22.866* | *13.528* |  | *0.9627* | *0.9600* | *0.0030* | *ns* |
|  | *Ssa408uos* |  | *18* |  | *9.321* | *9.297* |  | *0.8987* | *0.9333* | *-0.0390* | *ns* |
|  | *SsoSL417* |  | *9* |  | *5.329* | *6.075* |  | *0.8178* | *0.7867* | *0.0380* | *ns* |
|  | *SsoSL438* |  | *7* |  | *3.868* | *4.940* |  | *0.7478* | *0.7458* | *0.0030* | *ns* |
|  | **PCR-RFLP Total** | **75** | **4** | **2** | **1.523** | **1.992** |  | **0.3454** | **0.3733** | **-0.0810** | **ns** |
|  | *LDH-C1* |  | *2* |  | *1.505* | *1.990* |  | *0.3379* | *0.4000* | *-0.1850* | *ns* |
|  | *SL* |  | *2* |  | *1.540* | *1.993* |  | *0.3529* | *0.3467* | *0.0180* | *ns* |
| **BA** | **MS Total** | **25** | **48** | **10.50** | **7.145** | **7.102** |  | **0.8121** | **0.8835** | **-0.0910** | **ns** |
|  | *BFRO002* |  | *4* |  | *2.456* | *3.339* |  | *0.6049* | *0.6800* | *-0.1270* | *ns* |
|  | *OMM1064* |  | *17* |  | *11.574* | *10.915* |  | *0.9322* | *0.9200* | *0.0130* | *ns* |
|  | *Ssa408uos* |  | *13* |  | *7.862* | *8.963* |  | *0.8906* | *0.9200* | *-0.0340* | *ns* |
|  | *SsoSL417* |  | *9* |  | *7.297* | *7.608* |  | *0.8821* | *0.9565* | *-0.0860* | *ns* |
|  | *SsoSL438* |  | *5* |  | *3.682* | *4.687* |  | *0.7504* | *0.9412* | *-0.2640* | *ns* |
|  | **PCR-RFLP Total** | **25** | **4** | **2** | **1.785** | **2.000** |  | **0.4493** | **0.5208** | **-0.1630** | **ns** |
|  | *LDH-C1* |  | *2* |  | *1.753* | *2.000* |  | *0.4388* | *0.5417* | *-0.2410* | *ns* |
|  | *SL* |  | *2* |  | *1.816* | *2.000* |  | *0.4598* | *0.5000* | *-0.0900* | *ns* |
| **JO** | **MS Total** | **33** | **56** | **12.25** | **7.446** | **6.866** |  | **0.6911** | **0.6798** | **0.0160** | **ns** |
|  | *BFRO002* |  | *3* |  | *1.167* | *2.096* |  | *0.1450* | *0.0909* | *0.3770* | *\** |
|  | *OMM1064* |  | *23* |  | *16.133* | *12.424* |  | *0.9524* | *0.9394* | *0.0140* | *ns* |
|  | *Ssa408uos* |  | *15* |  | *8.037* | *8.966* |  | *0.8890* | *0.8485* | *0.0460* | *ns* |
|  | *SsoSL417* |  | *9* |  | *4.796* | *6.466* |  | *0.8041* | *0.7813* | *0.0290* | *ns* |
|  | *SsoSL438* |  | *6* |  | *2.859* | *4.377* |  | *0.6647* | *0.7391* | *-0.1150* | *ns* |
|  | **PCR-RFLP Total** | **33** | **4** | **2** | **1.316** | **1.944** |  | **0.2409** | **0.2779** | **-0.1570** | **ns** |
|  | *LDH-C1* |  | *2* |  | *1.234* | *1.905* |  | *0.1925* | *0.2121* | *-0.1030* | *ns* |
|  | *SL* |  | *2* |  | *1.398* | *1.982* |  | *0.2892* | *0.3438* | *-0.1920* | *ns* |
| **KE** | **MS Total** | **24** | **29** | **6.75** | **3.764** | **4.815** |  | **0.6852** | **0.6917** | **-0.0100** | **ns** |
|  | *BFRO002* |  | *2* |  | *1.800* | *2.000* |  | *0.4539* | *0.5000* | *-0.1040* | *ns* |
|  | *OMM1064* |  | *10* |  | *5.176* | *7.318* |  | *0.8256* | *0.7727* | *0.0650* | *ns* |
|  | *Ssa408uos* |  | *9* |  | *5.038* | *7.191* |  | *0.8193* | *0.8261* | *-0.0080* | *ns* |
|  | *SsoSL417* |  | *4* |  | *2.606* | *3.682* |  | *0.6294* | *0.5417* | *0.1420* | *ns* |
|  | *SsoSL438* |  | *4* |  | *3.143* | *3.886* |  | *0.6977* | *0.8182* | *-0.1780* | *ns* |
|  | **PCR-RFLP Total** | **24** | **4** | **2** | **1.825** | **2.000** |  | **0.4592** | **0.7083** | **-0.5610** | **\*\*\*** |
|  | *LDH-C1* |  | *2* |  | *1.704* | *2.000* |  | *0.4220* | *0.5833* | *-0.3940* | *ns* |
|  | *SL* |  | *2* |  | *1.946* | *2.000* |  | *0.4965* | *0.8333* | *-0.7040* | *\*\*\** |
| **AK** | **MS Total** | **50** | **39** | **8.250** | **4.841** | **5.613** |  | **0.6757** | **0.6708** | **0.0070** | **ns** |
|  | *BFRO002* |  | *3* |  | *1.278* | *2.362* |  | *0.2198* | *0.2400* | *-0.0930* | *ns* |
|  | *OMM1064* |  | *14* |  | *8.982* | *8.973* |  | *0.8980* | *0.8958* | *0.0020* | *ns* |
|  | *Ssa408uos* |  | *9* |  | *3.783* | *6.343* |  | *0.7435* | *0.7447* | *-0.0020* | *ns* |
|  | *SsoSL417* |  | *8* |  | *5.782* | *6.229* |  | *0.8357* | *0.8333* | *0.0030* | *ns* |
|  | *SsoSL438* |  | *5* |  | *3.073* | *4.160* |  | *0.6814* | *0.6400* | *0.0610* | *ns* |
|  | **PCR-RFLP Total** | **50** | **4** | **2** | **1.432** | **1.983** |  | **0.3045** | **0.2900** | **0.0480** | **ns** |
|  | *LDH-C1* |  | *2* |  | *1.445* | *1.985* |  | *0.3109* | *0.2600* | *0.1650* | *ns* |
|  | *SL* |  | *2* |  | *1.419* | *1.981* |  | *0.2982* | *0.3200* | *-0.0740* | *ns* |
| **KO** | **MS Total** | **14** | **32** | **5.750** | **3.993** | **5.772** |  | **0.6292** | **0.6846** | **-0.0930** | **ns** |
|  | *BFRO002* |  | *3* |  | *1.446* | *2.844* |  | *0.3201* | *0.3571* | *-0.1210* | *ns* |
|  | *OMM1064* |  | *10* |  | *5.444* | *8.021* |  | *0.8466* | *0.9286* | *-0.1010* | *ns* |
|  | *Ssa408uos* |  | *8* |  | *6.500* | *7.471* |  | *0.8800* | *0.9231* | *-0.0510* | *ns* |
|  | *SsoSL417* |  | *8* |  | *6.480* | *8.000* |  | *0.8954* | *1.0000* | *-0.1250* | *ns* |
|  | *SsoSL438* |  | *3* |  | *1.244* | *2.524* |  | *0.2037* | *0.2143* | *-0.0540* | *ns* |
|  | **PCR-RFLP Total** | **14** | **4** | **2** | **1.517** | **1.882** |  | **0.2897** | **0.3214** | **-0.1140** | **ns** |
|  | *LDH-C1* |  | *2* |  | *1.960* | *2.000* |  | *0.5079* | *0.5714* | *-0.1300* | *ns* |
|  | *SL* |  | *2* |  | *1.074* | *1.643* |  | *0.0714* | *0.0714* | *0.0000* | *ns* |
| **BI** | **MS Total** | **9** | **25** | **4.750** | **3.415** | **5.000** |  | **0.7320** | **0.7111** | **0.0300** | **ns** |
|  | *BFRO002* |  | *2* |  | *1.976* | *2.000* |  | *0.5229* | *0.6667* | *-0.2970* | *ns* |
|  | *OMM1064* |  | *6* |  | *4.500* | *6.000* |  | *0.8235* | *0.8889* | *-0.0850* | *ns* |
|  | *Ssa408uos* |  | *7* |  | *4.378* | *7.000* |  | *0.8170* | *0.6667* | *0.1930* | *ns* |
|  | *SsoSL417* |  | *5* |  | *3.767* | *5.000* |  | *0.7778* | *0.6667* | *0.1500* | *ns* |
|  | *SsoSL438* |  | *5* |  | *3.115* | *5.000* |  | *0.7190* | *0.6667* | *0.0770* | *ns* |
|  | **PCR-RFLP Total** | **9** | **3** | **1.5** | **1.264** | **1.500** |  | **0.1830** | **0.2222** | **-0.2310** | **ns** |
|  | *LDH-C1* |  | *2* |  | *1.528* | *2.000* |  | *0.3660* | *0.4444* | *-0.2310* | *ns* |
|  | *SL* |  | *1* |  | *1.000* | *1.000* |  | *0.0000* | *0.0000* | *NA* | *NA* |
| **SRB** | **MS Total** | **14** | **29** | **3.750** | **2.118** | **4.805** |  | **0.5651** | **0.5714** | **-0.0120** | **ns** |
|  | *BFRO002* |  | *2* |  | *1.074* | *1.643* |  | *0.0714* | *0.0714* | *0.0000* | *ns* |
|  | *OMM1064* |  | *11* |  | *4.900* | *8.572* |  | *0.8254* | *0.6429* | *0.2280* | *ns* |
|  | *Ssa408uos* |  | *8* |  | *3.409* | *6.333* |  | *0.7328* | *0.7857* | *-0.0750* | *ns* |
|  | *SsoSL417* |  | *6* |  | *3.920* | *5.477* |  | *0.7725* | *0.9286* | *-0.2110* | *ns* |
|  | *SsoSL438* |  | *2* |  | *1.690* | *2.000* |  | *0.4233* | *0.4286* | *-0.0130* | *ns* |
|  | **PCR-RFLP Total** | **14** | **2** | **1** | **1.000** | **1.000** |  | **0.0000** | **0.0000** | **NA** | **NA** |
|  | *LDH-C1* |  | *1* |  | *1.000* | *1.000* |  | *0.0000* | *0.0000* | *NA* | *NA* |
|  | *SL* |  | *1* |  | *1.000* | *1.000* |  | *0.0000* | *0.0000* | *NA* | *NA* |

Pop: population, N: number of samples, Na: number of alleles, Nma: mean number of alleles, Neff: effective allele number, Ar: Allelic richness, He:expected heterozigosity, Ho observed heterozigosity, Sign: significant deviation, NA=not available, ns=not significant, \* P<005, \*\* P<0.01, \*\*\* P<0.001