**Title:**

Microsatellite standardization and genotyping error in a large multi-partner research programme for conservation of Atlantic salmon (*Salmo salar* L.)

**Journal:**

Genetica

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**Supplementary data** Allelic error rates for each locus and laboratory, including number of alleles at each locus
(observed by baseline laboratory for control plate samples), locus size range and repeat type. A: before calibration, B: after calibration

| **Allelic error** | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Ssa14** | **Ssa171** | **Ssa197** | **Ssa202** | **Ssa289** | **SsaD144** | **SsaD157** | **SsaD486** | **SsaF43** | **SSsp1605** | **SSsp2201** | **SSsp2210** | **SSsp2216** | **SSsp3016** | **SSspG7** | **Ssol85** |
| **Size range** | 24 | 84 | 160 | 184 | 42 | 188 | 204 | 64 | 54 | 102 | 180 | 84 | 124 | 96 | 132 | 64 |
| **No. of alleles** | 5 | 30 | 28 | 23 | 6 | 36 | 32 | 12 | 10 | 10 | 35 | 14 | 21 | 18 | 28 | 20 |
| **Repeat type** | di | di | tetra | tetra | di | tetra | tetra | tetra | di | tetra | tetra | tetra | tetra | tetra | tetra | di |
| **A** | | | | | | | | | | | | | | | | |
| A | | 0.0000 | 0.0100 | 0.0000 | | 0.0000 | 0.0035 | 0.0068 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| B | 0.0029 | 0.0115 | 0.0000 | 0.0000 | 0.0029 | 0.0029 | 0.0199 | 0.0000 | 0.1552 | 0.0261 | 0.0208 | 0.0000 | 0.0057 | 0.0145 | 0.0259 | |
| C | 0.0056 | 0.0028 | 0.0141 | 0.0063 | 0.0000 | | 0.0032 | 0.0057 | 0.0552 | 0.0158 | 0.0131 | 0.0090 | 0.0061 | 0.0114 | 0.0150 | 0.0056 |
| D | 0.0000 | 0.0029 | 0.0174 | 0.0000 | 0.0029 | 0.0086 | 0.0000 | 0.0000 | 0.0257 | 0.0219 | 0.0000 | 0.0029 | 0.0172 | 0.0058 | 0.0000 | |
| E | | | 0.0058 | 0.0114 | | | | | | 0.0368 | | 0.0143 | | | 0.7184 | |
| F | | 0.0000 | | | 0.0030 | 0.0099 | 0.0097 | | | | 0.0066 | | | | | 0.0065 |
| G | 0.0057 | 0.0029 | 0.0028 | 0.0000 | 0.0029 | 0.0000 | 0.0029 | 0.0000 | 0.0058 | 0.0000 | 0.0057 | 0.0028 | 0.0000 | 0.0000 | 0.0057 | |
| H | 0.0000 | 0.0028 | 0.0000 | 0.0116 | 0.0000 | 0.0118 | 0.0234 | 0.0000 | 0.0056 | 0.0037 | 0.0208 | 0.0227 | 0.0000 | 0.0028 | 0.0144 | 0.0057 |
| I | 0.0062 | 0.0194 | 0.0034 | 0.0149 | 0.0111 | 0.3294 | 0.0361 | | 0.0559 | 0.0150 | 0.0663 | 0.0087 | 0.0093 | 0.0243 | 0.6441 | 0.1169 |
| J | 0.0540 | 0.0824 | 0.0763 | 0.0000 | 0.1051 | 0.0085 | 0.0116 | | 0.0819 | 0.0000 | 0.0086 | 0.0028 | 0.0621 | 0.0795 | 0.0114 | 0.0876 |
| K | 0.0142 | 0.0143 | 0.0959 | 0.0115 | 0.0114 | 0.4109 | 0.5057 | 0.0057 | 0.0175 | 0.0481 | 0.1444 | 0.4080 | 0.1424 | | 0.7632 | 0.0374 |
| L | 0.0057 | 0.0200 | 0.0320 | 0.0029 | 0.0000 | 0.1358 | 0.0118 | | 0.0171 | 0.0036 | 0.0089 | 0.4118 | 0.0000 | 0.0057 | 0.6571 | 0.0374 |
| **B** | | | | | | | | | | | | | | | | |
| A | | 0.0000 | 0.0100 | 0.0000 | | 0.0000 | 0.0035 | 0.0068 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| B | 0.0029 | 0.0115 | 0.0000 | 0.0000 | 0.0029 | 0.0029 | 0.0199 | 0.0000 | 0.0316 | 0.0261 | 0.0208 | 0.0000 | 0.0057 | 0.0145 | 0.0259 | |
| C | 0.0056 | 0.0028 | 0.0141 | 0.0063 | 0.0000 | | 0.0032 | 0.0057 | 0.0552 | 0.0158 | 0.0131 | 0.0090 | 0.0061 | 0.0114 | 0.0150 | 0.0056 |
| D | 0.0000 | 0.0029 | 0.0174 | 0.0000 | 0.0029 | 0.0086 | 0.0000 | 0.0000 | 0.0257 | 0.0219 | 0.0000 | 0.0029 | 0.0000 | 0.0058 | 0.0000 | |
| E | | | 0.0058 | 0.0114 | | | | | | 0.0368 | | 0.0143 | | | 0.0086 | |
| F | | 0.0000 | | | 0.0030 | 0.0099 | 0.0097 | | | | 0.0066 | | | | | 0.0065 |
| G | 0.0057 | 0.0029 | 0.0028 | 0.0000 | 0.0029 | 0.0000 | 0.0029 | 0.0000 | 0.0058 | 0.0000 | 0.0057 | 0.0028 | 0.0000 | 0.0000 | 0.0057 | |
| H | 0.0000 | 0.0028 | 0.0000 | 0.0116 | 0.0000 | 0.0118 | 0.0234 | 0.0000 | 0.0056 | 0.0037 | 0.0208 | 0.0227 | 0.0000 | 0.0028 | 0.0144 | 0.0057 |
| I | 0.0000 | 0.0191 | 0.0034 | 0.0375 | 0.0000 | 0.0320 | 0.0361 | | 0.0510 | 0.0000 | 0.0259 | 0.0000 | 0.0094 | 0.0000 | 0.0172 | 0.0974 |
| J | 0.0540 | 0.0625 | 0.0763 | 0.0000 | 0.1051 | 0.0085 | 0.0116 | | 0.0819 | 0.0000 | 0.0086 | 0.0028 | 0.0621 | 0.0795 | 0.0114 | 0.0621 |
| K | 0.0057 | 0.0086 | 0.0145 | 0.0115 | 0.0113 | 0.0471 | 0.0114 | 0.0029 | 0.0205 | 0.0410 | 0.0706 | 0.0000 | 0.0203 | | 0.0116 | 0.1337 |
| L | 0.0057 | 0.0171 | 0.0320 | 0.0029 | 0.0000 | 0.0086 | 0.0118 | | 0.0171 | 0.0036 | 0.0089 | 0.0029 | 0.0000 | 0.0057 | 0.0171 | 0.0029 |