

Preliminary genetic data suggest the occurrence of the Balkan water frog, *Pelophylax kurtmuelleri*,  
in southwestern Poland

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**Supplementary Material**

**Supplementary Table S1.** Sampling locations, cyt-b haplotypes and SAI-1 variants of all frogs used in the analysis. Code values correspond to the locality numbers on the map (Fig. 2). Cyt-b haplotypes refer to haplotypes on the mtDNA genealogy in Fig. 1b; GenBank accession numbers for these haplotypes are given in the next column. The SAI-1 variants (if scored) are coded as genotypes with R – *ridibundus* allele, r – *kurtmuelleri* allele, L – *lessonae* allele. Georeferences refer to GPS readings or approximate geographic coordinates determined by locating sites on Google Earth (published localities without coordinates).

| Sample            | Country     | Locality                 | Code | Latitude | Longitude | cyt-b | GenBank  | SAI-1    | Source                 |
|-------------------|-------------|--------------------------|------|----------|-----------|-------|----------|----------|------------------------|
| GO01              | Poland      | Gopło                    | 1    | 52.37    | 18.23     | PR 4  | JN627421 |          | Hofman et al. 2012     |
| Rafa2             | Poland      | Rafa                     | 2    | 53.12    | 18.1200   | PR 4  | JN627423 |          | Hofman et al. 2012     |
| Polny_4rid_2015   | Poland      | Stawno                   | 3    | 51.32    | 17.21     | PR 4  |          | rr       | this study             |
| Polny_5rid_2002   | Poland      | Stawno                   | 3    | 51.32    | 17.21     | PR 4  |          | Rr       | this study             |
| Polny_4rid_2002   | Poland      | Stawno                   | 3    | 51.32    | 17.21     | PR 4  |          | rr       | this study             |
| Polny_26rid_2015  | Poland      | Stawno                   | 3    | 51.32    | 17.21     | PR 4  | KY613559 | rr       | this study             |
| Polny_9rid_2002   | Poland      | Stawno                   | 3    | 51.32    | 17.21     | PK 9  | KY613556 | RR       | this study             |
| Polny_27rid_2015  | Poland      | Stawno                   | 3    | 51.32    | 17.21     | PK 9  |          | Rr       | this study             |
| Zabieniec_50_2001 | Poland      | Potasznia                | 4    | 51.32    | 17.29     | PR 4  | KY613558 | Rr       | this study             |
| Zabieniec_47_2001 | Poland      | Potasznia                | 4    | 51.32    | 17.29     | PR 4  |          | rr       | this study             |
| Zabieniec_40_2001 | Poland      | Potasznia                | 4    | 51.32    | 17.29     | PR 4  |          | RR       | this study             |
| MPFC 1259         | France      | Niort                    | 5    | 46.1469  | 0.4078    | PR 7  | KY613570 |          | this study             |
| H3                | Switzerland | Grande Cariçaie          | 6    | 46.4938  | 6.4880    | PR 6  | KC495117 |          | Dubey et al. 2014      |
| H4                | Switzerland | Grande Cariçaie          | 6    | 46.4938  | 6.4880    | PR 4  | KC495118 |          | Dubey et al. 2014      |
| H5                | Switzerland | Grande Cariçaie          | 6    | 46.4938  | 6.4880    | PK 13 | KC495119 |          | Dubey et al. 2014      |
| H4                | Switzerland | Finges                   | 7    | 46.1821  | 7.3611    | PR 4  | KC495118 |          | Dubey et al. 2014      |
| H6                | Switzerland | Finges                   | 7    | 46.1821  | 7.3611    | PK 16 | KF959564 |          | Dubey et al. 2014      |
| H4                | Switzerland | Aarau area               | 8    | 47.2325  | 8.24453   | PR 4  | KC495118 |          | Dubey et al. 2014      |
| H7                | Switzerland | Aarau area               | 8    | 47.2325  | 8.24453   | PR5   | KF959565 |          | Dubey et al. 2014      |
| H6                | Switzerland | Grangettes               | 9    | 46.4043  | 6.5743    | PK 16 | KF959564 |          | Dubey et al. 2014      |
| H4                | Switzerland | Lausanne area            | 10   | 46.3228  | 6.3828    | PR 4  | KC495118 |          | Dubey et al. 2014      |
| MPFC 1352         | Hungary     | Peteri-To Nature reserve | 11   | 46.5952  | 19.9127   | PR 5  | KY613569 | RR       | this study             |
| MPFC 1417         | Serbia      | Vidovo                   | 12   | 43.18    | 20.44     | PK 14 | KY613557 | rr       | this study             |
| MPFC 1147         | Bulgaria    | Veleka river, Sinemorets | 13   | 42.0596  | 27.9647   | PR 4  | KY613571 | RR       | this study             |
| MPFC 1416         | Macedonia   | Izvor                    | 14   | 41.3068  | 21.4093   | PK 16 | KY613565 | new band | this study             |
| NHMC 80.2.11.4    | Macedonia   | Kerkini L.               | 15   | 41.2100  | 23.1300   | PK 13 | DQ474157 |          | Lymberakis et al. 2007 |
| NHMC 80.2.11.3    | Macedonia   | Kerkini L.               | 16   | 41.2100  | 23.1300   | PK1   | DQ474156 |          | Lymberakis et al. 2007 |
| MPFC 1364         | Macedonia   | Ohrid                    | 17   | 40.9871  | 20.7999   | PK 9  | KY613568 | rr       | this study             |

|                 |         |                            |    |         |         |       |          |    |                        |
|-----------------|---------|----------------------------|----|---------|---------|-------|----------|----|------------------------|
| MPFC 1412       | Albania | Kavajë                     | 18 | 41.168  | 19.556  | PK 9  | KY613566 | rr | this study             |
| NHMC 80.2.11.7  | Greece  | Prespa                     | 19 | 40.8811 | 21.0429 | PK 9  | DQ474159 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.25 | Greece  | Zagori Mt.                 | 20 | 39.8799 | 20.8553 | PK 9  | DQ474165 |    | Lymberakis et al. 2007 |
| MPFC 1456       | Greece  | Evinos river near Trikofro | 21 | 38.4258 | 21.6294 | PK1   | KY613564 | rr | this study             |
| MPFC 1475       | Greece  | near Skala                 | 22 | 37.5978 | 21.7738 | PK1   | KY613562 | rr | this study             |
| MPFC 1474       | Greece  | Palouki                    | 23 | 37.7525 | 21.3046 | PK2   | KY613563 | RR | this study             |
| MPFC 1488       | Greece  | north of Argos             | 24 | 37.6729 | 22.7205 | PK3   | KY613561 | rr | this study             |
| MPFC 1384       | Greece  | near Ioannina              | 25 | 39.6959 | 20.9958 | PK4   | KY613567 | rr | this study             |
| NHMC 80.2.11.12 | Greece  | Arta                       | 26 | 39.1324 | 20.9864 | PK5   | DQ474176 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.47 | Greece  | Sarantaporos               | 27 | 38.5800 | 22.2306 | PK 7  | DQ474175 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.36 | Greece  | Messologi                  | 28 | 38.3686 | 21.4304 | PK 10 | DQ474171 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.37 | Greece  | Nestani                    | 29 | 37.6139 | 22.4659 | PK 6  | DQ474172 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.28 | Greece  | Kythira Isl.               | 30 | 36.2790 | 22.9854 | PK 8  | DQ474169 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.22 | Greece  | Plastira L.                | 31 | 39.2972 | 21.7525 | PK 13 | DQ474165 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.20 | Greece  | Evvoia Isl.                | 32 | 38.5236 | 23.8585 | PK 13 | DQ474164 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.26 | Greece  | Ossa Mt.                   | 33 | 39.7969 | 22.6869 | PK 15 | DQ474167 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.35 | Greece  | Pamisos R.                 | 34 | 39.4667 | 21.8500 | PK 11 | DQ474170 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.45 | Greece  | Skyros Isl.                | 35 | 38.8163 | 24.5955 | PK 12 | DQ474174 |    | Lymberakis et al. 2007 |
| MPFC 1490       | Greece  | Leianokladi                | 36 | 38.9039 | 22.2935 | PK 16 | KY613560 | RR | this study             |
| NHMC 80.2.11.5  | Greece  | Plastira L.                | 37 | 39.2972 | 21.7525 | PK 17 | DQ474158 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.27 | Greece  | Ossa Mt.                   | 38 | 39.7969 | 22.6869 | PK 17 | DQ474168 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.40 | Greece  | Platykampos                | 39 | 39.6211 | 22.5356 | PK 17 | DQ474173 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.10 | Greece  | Samos                      | 40 | 37.6224 | 26.3046 | PR 1  | DQ474162 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.11 | Greece  | Thrace (Dadia)             | 41 | 41.1280 | 26.2259 | PR 2  | DQ474163 |    | Lymberakis et al. 2007 |
| NHMC 80.2.11.8  | Greece  | Thrace (Kotili)            | 42 | 41.3330 | 24.8864 | PR 3  | DQ474160 |    | Lymberakis et al. 2007 |
| Dadia           | Greece  | Dadia                      | 43 | 41.07   | 26.13   | PR 4  | KY613572 | rr | this study             |
| NHMC 80.2.11.9  | Greece  | Thrace (Nestos R.)         | 44 | 41.0232 | 24.6642 | PR 4  | DQ474161 |    | Lymberakis et al. 2007 |
| 28_16           | Poland  | Wysoka-Kamienska           | 45 | 53.4915 | 14.5031 | PL 1  | KY703611 | RL | this study             |
| 32_16           | Poland  | Wysoka-Kamienska           | 45 | 53.4915 | 14.5031 | PL 1  |          | RL | this study             |
| 35_16           | Poland  | Wysoka-Kamienska           | 45 | 53.4915 | 14.5031 | PL 1  |          | RL | this study             |
| 37_16           | Poland  | Wysoka-Kamienska           | 45 | 53.4915 | 14.5031 | PL 1  |          | RL | this study             |
| 3_3n_15z5       | Poland  | Wysoka-Kamienska           | 45 | 53.4915 | 14.5031 | PL 1  |          | RL | this study             |
| 3_3n_15b7       | Poland  | Wysoka-Kamienska           | 45 | 53.4915 | 14.5031 | PL 1  |          | RL | this study             |
| 10_3n_15z5      | Poland  | Wysoka-Kamienska           | 45 | 53.4915 | 14.5031 | PL 1  |          | RL | this study             |
| 5_3n_15b8       | Poland  | Wysoka-Kamienska           | 45 | 53.4915 | 14.5031 | PL 1  |          | RL | this study             |

|                         |        |                  |    |          |         |      |           |    |                        |
|-------------------------|--------|------------------|----|----------|---------|------|-----------|----|------------------------|
| 10_3n_15b8              | Poland | Wysoka-Kamienska | 45 | 53. 4915 | 14.5031 | PL 1 |           | RL | this study             |
| 2_3n_15z5               | Poland | Wysoka-Kamienska | 45 | 53. 4915 | 14.5031 | PL 1 |           | RL | this study             |
| <i>P.saharicus</i>      |        |                  |    |          |         |      | DQ902147  |    | Busack and Lawson,2008 |
| <i>P.perezi</i>         |        |                  |    |          |         |      | DQ902145  |    | Busack and Lawson,2008 |
| <i>P.nigromaculatus</i> |        |                  |    |          |         |      | NNU02040  |    | Zhang et al. 2008      |
| <i>P.lessonae</i>       |        |                  |    |          |         |      | JN627426  |    | Hofman et al. 2012     |
| <i>P.bedriagae</i>      |        |                  |    |          |         |      | NC_029200 |    | Hofman et al., unpub.  |
| <i>P.cypriensis</i>     |        |                  |    |          |         |      | NC_026893 |    | Hofman et al. 2016a    |
| <i>P.cretensis</i>      |        |                  |    |          |         |      | NC_025575 |    | Hofman et al. 2016b    |
| <i>P.epeiroticus</i>    |        |                  |    |          |         |      | NC_026894 |    | Hofman et al. 2016a    |
| <i>P.shqipericus</i>    |        |                  |    |          |         |      | NC_026896 |    | Hofman et al. 2016a    |

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