Table S1: Data of the COI sequences used in the study

| CODE | NCBI       | REFERENCE  | COUNTRY                  | LOCALITY       | HAPLOTYPE | GROUP | POPULATION | DATE | TYPE |
|------|------------|------------|---------------------------|----------------|-----------|-------|------------|------|------|
| BIH-02 | MF381966.1 | own study  | Bosnia and Herzegovina    | Sarajevo       | Ht16      | A     | Pop9       | 2014 | feather |
| BW-01  | MF381977.1 | own study  | Belarus                   | Baranovichi    | Ht1       | A     | Pop10      | 2013 | feather |
| C-01   | MF381977.1 | own study  | Cuba                      | Havana         | Ht1       | A     | Pop15      | 2015 | feather |
| CY-01  | MF381977.1 | own study  | Cyprus                    | Nicosia        | Ht1       | A     | Pop9       | 2015 | feather |
| CZ-01  | MF381989.1 | own study  | Czech Republic            | Průhonice      | Ht29      | A     | Pop8       | 2014 | feather |
| CZ-04  | MF381992.1 | own study  | Czech Republic            | Průhonice      | Ht32      | A     | Pop8       | 2014 | feather |
| CZ-05  | MF381977.1 | own study  | Czech Republic            | Průhonice      | Ht1       | A     | Pop8       | 2014 | feather |
| CZ-06  | MF381977.1 | own study  | Czech Republic            | Lutová         | Ht1       | A     | Pop8       | 2014 | feather |
| CZ-07  | MF381979.1 | own study  | Czech Republic            | Libořezy       | Ht3       | A     | Pop8       | 2014 | feather |
| CZ-08  | MF381977.1 | own study  | Czech Republic            | Žíteč          | Ht1       | A     | Pop8       | 2014 | feather |
| FR-01  | MF381977.1 | own study  | France                    | Oléron         | Ht1       | A     | Pop12      | 2014 | feather |
| FR-03  | MF381978.1 | own study  | France                    | Oléron         | Ht2       | A     | Pop12      | 2014 | feather |
| Country | Accession | Study Type | Location | Year | Age Code | Age | Population | Year | Feathers |
|---------|-----------|------------|----------|------|----------|-----|------------|------|----------|
| FR-04   | MF381978.1| own study  | France   | Oléron | Ht2      | A   | Pop12      | 2014 | feather  |
| FR-05   | MF382003.1| own study  | France   | Oléron | Ht42     | A   | Pop12      | 2014 | feather  |
| FR-06   | MF381985.1| own study  | France   | Oléron | Ht22     | A   | Pop12      | 2014 | feather  |
| FR-07   | MF381959.1| own study  | France   | Oléron | Ht9      | B   | Pop12      | 2014 | feather  |
| FR-08   | MF381978.1| own study  | France   | Oléron | Ht2      | A   | Pop12      | 2014 | feather  |
| FR-09   | MF381977.1| own study  | France   | Oléron | Ht1      | A   | Pop12      | 2014 | feather  |
| FR-10   | MF382006.1| own study  | France   | Oléron | Ht49     | A   | Pop12      | 2014 | feather  |
| FR-11   | MF381981.1| own study  | France   | Oléron | Ht5      | A   | Pop12      | 2014 | feather  |
| FR-13   | MF381981.1| own study  | France   | Oléron | Ht5      | A   | Pop12      | 2014 | feather  |
| GB-01   | MF381976.1| own study  | Great Britain | Glasgow | Ht52 | A | Pop14 | 2014 | feather  |
| GB-03   | MF381991.1| own study  | Great Britain | Cambridge | Ht31 | A | Pop14 | 2014 | feather  |
| GB-04   | MF381969.1| own study  | Great Britain | Cambridge | Ht23 | A | Pop14 | 2014 | feather  |
| GB-06   | MF381984.1| own study  | Great Britain | Cambridge | Ht21 | A | Pop14 | 2014 | feather  |
| GB-11   | MF381977.1| own study  | Great Britain | Cheshire | Ht1 | A | Pop14 | 2014 | feather  |
| GB-13   | MF381977.1| own study  | Great Britain | Cheshire | Ht1 | A | Pop14 | 2014 | feather  |
| Code | Accession | Study Type | Location       | Casualty | Population | Year | Site | Sex | Feather |
|------|-----------|------------|----------------|----------|------------|------|------|-----|---------|
| GB-14| MF381977.1| own study  | Great Britain  | Cheshire | Ht1        | A    | Pop14| 2014| feather |
| GB-15| MF381977.1| own study  | Great Britain  | Cheshire | Ht1        | A    | Pop14| 2014| feather |
| GB-16| MF381982.1| own study  | Great Britain  | Cheshire | Ht19       | A    | Pop14| 2014| feather |
| GB-17| MF381970.1| own study  | Great Britain  | Cheshire | Ht35       | A    | Pop14| 2014| feather |
| GB-28| MF381975.1| own study  | Great Britain  | Cheshire | Ht46       | A    | Pop14| 2014| feather |
| GB-29| MF381977.1| own study  | Great Britain  | Cheshire | Ht1        | A    | Pop14| 2014| feather |
| GB-30| JQ176291.1| Schindel et al. 2011 | Great Britain  | Norfolk  | Ht32       | A    | n.d. | n.d. | n.d.    |
| GP-01| MF381977.1| own study  | France         | Guadeloupe| Ht1        | A    | Pop15| 2014| feather |
| GP-02| MF381977.1| own study  | France         | Guadeloupe| Ht1        | A    | Pop15| 2014| feather |
| GP-03| MF381959.1| own study  | France         | Guadeloupe| Ht9        | B    | Pop15| 2014| feather |
| GP-04| MF381977.1| own study  | France         | Guadeloupe| Ht1        | A    | Pop15| 2014| feather |
| GP-05| MF381974.1| own study  | France         | Guadeloupe| Ht45       | A    | Pop15| 2014| feather |
| GP-06| MF381977.1| own study  | France         | Guadeloupe| Ht1        | A    | Pop15| 2014| feather |
| GP-07| MF381977.1| own study  | France         | Guadeloupe| Ht1        | A    | Pop15| 2014| feather |
| Code  | Accession   | Study Type | Country | Location     | Ht | Gender | Sample Size | Year | Sample Type |
|-------|-------------|------------|---------|--------------|----|--------|-------------|------|-------------|
| GP-09 | MF381994.1  | own study  | France  | Guadeloupe   | Ht36| A      | Pop15       | 2014 | feather     |
| GP-10 | MF381977.1  | own study  | France  | Guadeloupe   | Ht1 | A      | Pop15       | 2014 | feather     |
| GP-12 | MF381977.1  | own study  | France  | Guadeloupe   | Ht1 | A      | Pop15       | 2014 | feather     |
| HU-01 | MF381961.1  | own study  | Hungary | Tótkomlós    | Ht11| B      | Pop4        | 2013 | feather     |
| HU-02 | MF381965.1  | own study  | Hungary | Tótkomlós    | Ht15| B      | Pop4        | 2013 | feather     |
| HU-03 | MF381977.1  | own study  | Hungary | Balmazújváros| Ht1 | A      | Pop2        | 2014 | feather     |
| HU-04 | MF381977.1  | own study  | Hungary | Gödöllő      | Ht1 | A      | Pop1        | 2014 | feather     |
| HU-05 | MF381977.1  | own study  | Hungary | Gödöllő      | Ht1 | A      | Pop1        | 2014 | feather     |
| HU-07 | MF382004.1  | own study  | Hungary | Mosonszolnok | Ht43| A      | Pop7        | 2015 | egg shell   |
| HU-08 | MF381992.1  | own study  | Hungary | Kaposvár     | Ht32| A      | Pop6        | 2015 | feather     |
| HU-09 | MF382005.1  | own study  | Hungary | Orosháza     | Ht44| A      | Pop4        | 2015 | tissue      |
| HU-10 | MF381967.1  | own study  | Hungary | Orosháza     | Ht17| A      | Pop4        | 2015 | tissue      |
| HU-11 | MF381977.1  | own study  | Hungary | Orosháza     | Ht1 | A      | Pop4        | 2015 | tissue      |
| HU-12 | MF381977.1  | own study  | Hungary | Orosháza     | Ht1 | A      | Pop4        | 2015 | tissue      |
| HU-13 | MF381977.1  | own study  | Hungary | Orosháza     | Ht1 | A      | Pop4        | 2015 | tissue      |
| HU-14 | MF382002.1  | own study  | Hungary | Orosháza     | Ht38| A      | Pop4        | 2015 | tissue      |
| HU-15 | MF381977.1  | own study  | Hungary | Baks         | Ht1 | A      | Pop3        | 2015 | tissue      |
| HU-16 | MF381967.1  | own study  | Hungary | Bócsa        | Ht17| A      | Pop3        | 2015 | tissue      |
| HU-17 | MF381977.1  | own study  | Hungary | Mindszent    | Ht1 | A      | Pop3        | 2015 | tissue      |
| HU-18 | MF381992.1  | own study  | Hungary | Tótkomlós    | Ht32| A      | Pop4        | 2015 | tissue      |
| HU-19   | MF381981.1 | own study | Hungary | Hódmezővásárhely | Ht5 | A | Pop3 | 2015 | tissue |
|---------|------------|------------|---------|------------------|-----|---|------|------|--------|
| HU-20   | MF381967.1 | own study | Hungary | Hódmezővásárhely | Ht17| A | Pop3 | 2015 | tissue |
| HU-21   | MF381977.1 | own study | Hungary | Seregélyes      | Ht1 | A | Pop1 | 2015 | tissue |
| HU-22   | MF381972.1 | own study | Hungary | Székesfehérvár  | Ht40| A | Pop1 | 2015 | tissue |
| HU-23   | MF381972.1 | own study | Hungary | Móra            | Ht40| A | Pop1 | 2015 | tissue |
| HU-24   | MF381972.1 | own study | Hungary | Kecskemét       | Ht40| A | Pop3 | 2015 | tissue |
| HU-25   | MF381997.1 | own study | Hungary | Simaság         | Ht48| A | Pop7 | 2015 | tissue |
| HU-26   | MF381971.1 | own study | Hungary | Fertőhomiok     | Ht39| A | Pop7 | 2015 | tissue |
| HU-27   | MF381977.1 | own study | Hungary | Totkomlós       | Ht1 | A | Pop4 | 2015 | tissue |
| HU-28   | MF382001.1 | own study | Hungary | Harsány         | Ht34| A | Pop2 | 2015 | tissue |
| HU-29   | MF381977.1 | own study | Hungary | Dusnok          | Ht1 | A | Pop6 | 2015 | tissue |
| HU-30   | MF381977.1 | own study | Hungary | Csökmő          | Ht1 | A | Pop2 | 2015 | tissue |
| HU-31   | MF381963.1 | own study | Hungary | Sopron          | Ht13| B | Pop7 | 2015 | feather |
| HU-32   | MF381986.1 | own study | Hungary | Balf            | Ht24| A | Pop7 | 2015 | feather |
| HU-34   | MF381956.1 | own study | Hungary | Balatonkenese   | Ht6 | B | Pop1 | 2015 | feather |
| HU-35   | MF381973.1 | own study | Hungary | Mosonmagyaróvár | Ht41| A | Pop7 | 2015 | feather |
| HU-36   | MF381977.1 | own study | Hungary | Mosonszolnok    | Ht1 | A | Pop7 | 2015 | feather |
| HU-37   | MF381981.1 | own study | Hungary | Mohács         | Ht5 | A | Pop6 | 2015 | tissue |
| HU-38   | MF381972.1 | own study | Hungary | Mohács         | Ht40| A | Pop6 | 2015 | tissue |
| HU-39   | MF381998.1 | own study | Hungary | Sátorhely      | Ht50| A | Pop6 | 2015 | tissue |
| HU-41   | MF381995.1 | own study | Hungary | Demecser       | Ht37| A | Pop2 | 2014 | feather |
| Code  | Accession   | Study Type  | Country  | Location       | HT  | Sample Type | Year | Feature    |
|-------|-------------|-------------|----------|----------------|-----|-------------|------|------------|
| HU-42 | MF381980.1  | own study   | Hungary  | Demecser      | Ht4 | A           | 2014 | feather    |
| HU-43 | MF381985.1  | own study   | Hungary  | Mosonszolnok  | Ht22| A           | 2015 | egg shell  |
| HU-45 | MF381977.1  | own study   | Hungary  | Barcs          | Ht1 | A           | 2015 | tissue     |
| HU-46 | MF382001.1  | own study   | Hungary  | Barcs          | Ht34| A           | 2015 | tissue     |
| HU-47 | MF381978.1  | own study   | Hungary  | Barcs          | Ht2 | A           | 2015 | tissue     |
| HU-48 | MF381977.1  | own study   | Hungary  | Barcs          | Ht1 | A           | 2015 | tissue     |
| HU-49 | MF381977.1  | own study   | Hungary  | Barcs          | Ht1 | A           | 2015 | tissue     |
| HU-50 | MF381977.1  | own study   | Hungary  | Barcs          | Ht1 | A           | 2015 | tissue     |
| HU-51 | MF381993.1  | own study   | Hungary  | Barcs          | Ht33| A           | 2015 | tissue     |
| HU-52 | MF381977.1  | own study   | Hungary  | Barcs          | Ht1 | A           | 2015 | tissue     |
| HU-53 | MF381983.1  | own study   | Hungary  | Barcs          | Ht20| A           | 2015 | tissue     |
| HU-54 | MF381977.1  | own study   | Hungary  | Tiszaalpár     | Ht1 | A           | 2015 | tissue     |
| HU-56 | MF381981.1  | own study   | Hungary  | Mosonszolnok   | Ht5 | A           | 2015 | egg shell  |
| HU-57 | MF381990.1  | own study   | Hungary  | Sátorhely      | Ht30| A           | 2015 | tissue     |
| HU-58 | MF381978.1  | own study   | Hungary  | Sátorhely      | Ht2 | A           | 2015 | tissue     |
| HU-59 | MF381984.1  | own study   | Hungary  | Sátorhely      | Ht21| A           | 2015 | tissue     |
| HU-60 | MF382002.1  | own study   | Hungary  | Sátorhely      | Ht38| A           | 2015 | tissue     |
| HU-61 | MF381978.1  | own study   | Hungary  | Sátorhely      | Ht2 | A           | 2015 | tissue     |
| HU-62 | MF382001.1  | own study   | Hungary  | Sátorhely      | Ht34| A           | 2015 | tissue     |
| Code  | Accession | Study Type | Country       | Location         | Date | Sample Type  |
|-------|------------|------------|---------------|------------------|------|--------------|
| HU-63 | MF381978.1 | own study  | Hungary       | Sátorhely        | 2015 | tissue       |
| HU-64 | MF381977.1 | own study  | Hungary       | Sátorhely        | 2015 | tissue       |
| HU-65 | MF382007.1 | own study  | Hungary       | Sátorhely        | 2015 | tissue       |
| HU-66 | MF381957.1 | own study  | Hungary       | Sátorhely        | 2015 | tissue       |
| HU-67 | MF381967.1 | own study  | Hungary       | Mosonszolnok     | 2015 | feather      |
| IT-01 | MF381962.1 | own study  | Italy         | Catania          | 2013 | feather      |
| NL-01 | MF381977.1 | own study  | Netherlands    | Nijmegen         | 2015 | feather      |
| NL-03 | MF381977.1 | own study  | Netherlands    | Nijmegen         | 2015 | feather      |
| NL-05 | MF381977.1 | own study  | Netherlands    | Nijmegen         | 2015 | feather      |
| NL-06 | MF381977.1 | own study  | Netherlands    | Nijmegen         | 2015 | feather      |
| NL-07 | KF946864.1 | own study  | Netherlands    | Hoogkerk         | 2013 | tissue       |
| NOR-01| GU571632.1 | own study  | Norway         | Oslo             | 2010 | blood        |
| PK-01 | KC182070.1 | own study  | Pakistan       | Lahor            | 2013 | blood        |
| PK-02 | KC182064.1 | own study  | Pakistan       | Lahor            | 2013 | blood        |
| PK-03 | KC182069.1 | own study  | Pakistan       | Lahor            | 2013 | blood        |
| PK-04 | KC182068.1 | own study  | Pakistan       | Lahor            | 2013 | blood        |
| Code | Accession | Authors (Year) | Country | City | Type | Region | Year | Type |
|------|-----------|----------------|---------|------|------|--------|------|------|
| PK-05| KC182067.1| Awan et al. 2013| Pakistan| Lahor| n.d. | A      | n.d. | blood|
| PK-06| KC182066.1| Awan et al. 2013| Pakistan| Lahor| n.d. | A      | n.d. | blood|
| PK-07| KC182062.1| Awan et al. 2013| Pakistan| Lahor| n.d. | A      | n.d. | blood|
| PK-08| KC182065.1| Awan et al. 2013| Pakistan| Lahor| n.d. | A      | n.d. | blood|
| PK-09| KC182071.1| Awan et al. 2013| Pakistan| Lahor| n.d. | A      | n.d. | blood|
| PK-10| KC182063.1| Awan et al. 2013| Pakistan| Lahor| n.d. | A      | n.d. | blood|
| PL-01| MF381977.1| own study      | Poland  | Gdansk| Ht1  | A      | Pop10| 2013 | feather|
| PL-03| MF381958.1| own study      | Poland  | Krakow| Ht8  | B      | Pop10| 2014 | feather|
| RO-01| MF381960.1| own study      | Romania | Timisoara| Ht10 | B      | Pop5 | 2013 | feather|
| RO-02| MF381960.1| own study      | Romania | Tulcea | Ht10 | B      | Pop9 | 2013 | feather|
| RO-04| MF381978.1| own study      | Romania | Boncida| Ht2  | A      | Pop5 | 2014 | feather|
| RO-05| MF381978.1| own study      | Romania | Timisoara| Ht2 | A      | Pop5 | 2014 | feather|
| RO-07| MF381977.1| own study      | Romania | Țipari | Ht1  | A      | Pop5 | 2014 | feather|
| RO09 | MF381977.1| own study      | Romania | Cluj-Napoca| Ht1 | A      | Pop5 | 2014 | feather|
| Country | Code | Accession | Study Type | Location | HT | Microsatellite | Year | Sample Type |
|---------|------|-----------|------------|----------|----|---------------|------|-------------|
| Romania | RO10 | MF381959.1 | own study | Cluj-Napoca | Ht9 | B | Pop5 | 2014 | feather |
| Romania | RO11 | MF381990.1 | own study | Cluj-Napoca | Ht30 | A | Pop5 | 2014 | feather |
| Saudi Arabia | SA-01 | HQ168040.1 | Khan & Arif 2013 | n.d. | Ht21 | A | n.d. | n.d. | n.d. |
| Saudi Arabia | SA-02 | HQ168041.1 | Khan & Arif 2013 | n.d. | Ht32 | A | n.d. | n.d. | n.d. |
| Spain | SP-01 | MF381964.1 | own study | Zaragoza | Ht14 | B | Pop13 | 2014 | feather |
| Spain | SP-03 | MF381977.1 | own study | Badajoz | Ht1 | A | Pop13 | 2014 | feather |
| Spain | SP-05 | MF381977.1 | own study | Badajoz | Ht1 | A | Pop13 | 2014 | feather |
| Spain | SP-07 | MF381988.1 | own study | Badajoz | Ht28 | A | Pop13 | 2014 | feather |
| Spain | SP-08 | MF381987.1 | own study | Badajoz | Ht25 | A | Pop13 | 2014 | feather |
| Spain | SP-09 | MF381999.1 | own study | Badajoz | Ht26 | A | Pop13 | 2014 | feather |
| Spain | SP-10 | MF381977.1 | own study | Badajoz | Ht1 | A | Pop13 | 2014 | feather |
| Spain | SP-12 | MF381967.1 | own study | Badajoz | Ht17 | A | Pop13 | 2014 | feather |
| Spain | SP-13 | MF381977.1 | own study | Badajoz | Ht1 | A | Pop13 | 2014 | feather |
| Spain | SP-15 | MF381965.1 | own study | Badajoz | Ht15 | B | Pop13 | 2014 | feather |
| Sweden | SWE-01 | GU572102.1 | Johnsen et al. 2010 | Trollhaettan | Ht1 | A | n.d. | n.d. | n.d. |
| USA | USA-01 | DQ433219.1 | Kerr et al. 2007 | Homestead | n.d. | A | n.d. | n.d. | tissue |
| USA | USA-02 | DQ433220.1 | Kerr et al. 2007 | Homestead | n.d. | A | n.d. | n.d. | tissue |
|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| TR-01 | MF382000.1 | own study | Turkey | Canakkale | Ht27 | A | Pop9 | 2014 | feather |
| TR-02 | MF381996.1 | own study | Turkey | Canakkale | Ht47 | A | Pop9 | 2014 | feather |
| TR-03 | MF381968.1 | own study | Turkey | Antalya | Ht18 | A | Pop9 | 2014 | feather |
| TR-05 | MF381977.1 | own study | Turkey | Ahmetbeyli | Ht1 | A | Pop9 | 2015 | feather |