

**Table S1.** Archive collection of rabies positive samples at the NVI, Virology Unit.

| Sample name | Year | Location          | Animal species | Genetic characterization (accession number) |
|-------------|------|-------------------|----------------|---------------------------------------------|
| 202         | 1994 | Jesenice          | Cow            | Yes (HM852150)                              |
| 498         | 1994 | Ribnica           | Fox            | Yes (HM852146)                              |
| 587         | 1994 | Sežana            | Marten         | Yes (HM852152)                              |
| 696-15      | 1994 | Ilirska Bistrica  | Fox            | Yes (HM852149)                              |
| 355         | 1994 | Sežana            | Fox            | No                                          |
| 536         | 1994 | Murska Sobota     | Fox            | No                                          |
| 477         | 1994 | Krško             | Fox            | No                                          |
| 579         | 1994 | Nova gorica       | Fox            | No                                          |
| 34          | 1994 | Murska Sobota     | Fox            | No                                          |
| 1386        | 1994 | Ribnica           | Fox            | No                                          |
| 882         | 1995 | Cerknica          | Cat            | Yes (HM852148)                              |
| 1478        | 1995 | Domžale           | Fox            | No                                          |
| 1229        | 1995 | Krško             | Fox            | Yes (HM852153)                              |
| 709         | 1995 | Kamnik            | Dog            | Yes                                         |
| 1453        | 1995 | Tolmin            | Fox            | No                                          |
| 1376        | 1995 | Novo Mesto        | Fox            | No                                          |
| 1439        | 1995 | Litija            | Fox            | No                                          |
| 762         | 1995 | Šmarje            | Fox            | No                                          |
| 837         | 1995 | Koper             | Fox            | No                                          |
| 1422        | 1995 | Brežice           | Fox            | No                                          |
| 1447        | 1995 | Domžale           | Fox            | No                                          |
| 1089        | 1995 | Šentjur           | Fox            | No                                          |
| 590         | 1996 | Litija            | Fox            | Yes (HM852147)                              |
| 1332        | 1996 | Žalec             | Fox            | No                                          |
| 540         | 1996 | Ptuj              | Fox            | No                                          |
| 704         | 1997 | Kamnik            | Cat            | No                                          |
| 923         | 1999 | Črnomelj          | Cat            | No                                          |
| 2045        | 1999 | Črnomelj          | Fox            | No                                          |
| 1116        | 2000 | Novo Mesto        | Badger         | Yes (HM852151)                              |
| 193         | 2000 | Litija            | Fox            | Yes                                         |
| 283         | 2000 | Trebnje           | Fox            | No                                          |
| 1254-205    | 2000 | Brezovica         | Fox            | No                                          |
| 876         | 2000 | Semič             | Fox            | No                                          |
| 660         | 2000 | Škocijan          | Fox            | No                                          |
| 718         | 2001 | Ravne na koroškem | Cow            | No                                          |
| 316         | 2001 | Radovljica        | Dog            | No                                          |
| 1496        | 2001 | Grosuplje         | Dog            | No                                          |
| 1516        | 2001 | Majšperk          | Cat            | No                                          |
| 1807        | 2001 | Ribnica           | Dog            | No                                          |
| 1795-69     | 2001 | Podlehnik         | Fox            | No                                          |
| 2475        | 2001 | Koper             | Fox            | Yes                                         |
| 1555        | 2001 | Litija            | Fox            | No                                          |
| 1403        | 2001 | Novo Mesto        | Fox            | No                                          |
| 416         | 2001 | Litija            | Fox            | No                                          |
| 1558        | 2001 | Litija            | Fox            | No                                          |
| 2097        | 2001 | Kranj             | Fox            | No                                          |
| 854         | 2002 | Šoštanj           | Dog            | No                                          |
| 541         | 2002 | Radovljica        | Fox            | No                                          |
| 315         | 2002 | Laško             | Fox            | Yes (HM852164)                              |
| 664         | 2002 | Videm pri Ptuj    | Fox            | Yes (HM852145)                              |
| 1693        | 2002 | Brežice           | Fox            | No                                          |
| 1945        | 2002 | Brežice           | Fox            | No                                          |
| 2049        | 2002 | Brežice           | Fox            | No                                          |
| 255         | 2002 | Videm pri Ptuj    | Fox            | No                                          |
| 1949        | 2002 | Škofja Loka       | Fox            | No                                          |
| 517         | 2002 | Škofja Loka       | Fox            | No                                          |
| 1155        | 2002 | Šmarje pri Jelšah | Fox            | No                                          |
| 5174        | 2002 | Videm pri Ptuj    | Fox            | No                                          |
| 199         | 2003 | Brežice           | Fox            | Yes (HM852155)                              |
| 317         | 2003 | Videm pri Ptuj    | Fox            | No                                          |

|                       |      |                    |        |                |
|-----------------------|------|--------------------|--------|----------------|
| 2337                  | 2003 | Vrhnika            | Fox    | No             |
| 2159                  | 2003 | Kočevje            | Fox    | No             |
| 2475                  | 2003 | Kočevje            | Fox    | No             |
| 514                   | 2003 | Ljubljana          | Fox    | No             |
| 404                   | 2003 | Brežice            | Fox    | No             |
| 1386                  | 2004 | Ilirska Bistrica   | Fox    | Yes (HM852165) |
| 314                   | 2004 | Ilirska Bistrica   | Fox    | No             |
| 820                   | 2004 | Semič              | Fox    | No             |
| 675                   | 2005 | Polzela            | Fox    | Yes            |
| 305                   | 2005 | Žalec              | Fox    | No             |
| 1039                  | 2006 | Črnomelj           | Fox    | Yes            |
| 1647                  | 2007 | Šmarje pri Jelšah  | Fox    | Yes (HM852161) |
| 306                   | 2007 | Brežice            | Fox    | No             |
| 1001                  | 2007 | Metlika            | Fox    | No             |
| 275                   | 2008 | Brežice            | Fox    | Yes (HM852154) |
| 332                   | 2008 | Brežice            | Dog    | Yes (HM852156) |
| 339                   | 2008 | Mirna peč          | Fox    | Yes (HM852157) |
| 348                   | 2008 | Majšperk           | Badger | Yes (HM852159) |
| 518                   | 2008 | Ilirska Bistrica   | Fox    | No             |
| 537 (vaccine induced) | 2008 | Šentjur            | Fox    | Yes            |
| 589                   | 2008 | Zavrč              | Fox    | Yes            |
| 1123                  | 2008 | Majšperk           | Fox    | No             |
| 1209                  | 2008 | Videm pri Ptuj     | Badger | Yes (HM852160) |
| 1868                  | 2008 | Slovenska Bistrica | Fox    | Yes            |
| 2254                  | 2008 | Kanal na Soči      | Fox    | Yes            |
| 2441                  | 2008 | Videm pri Ptuj     | Horse  | Yes (HM852162) |
| 2525                  | 2008 | Postojna           | Fox    | Yes            |
| 3212                  | 2008 | Metlika            | Fox    | Yes            |
| 244                   | 2008 | Ptuj               | Fox    | Yes            |
| 569                   | 2008 | Gorišnica          | Fox    | Yes            |
| 817                   | 2008 | Makole             | Fox    | Yes            |
| 511                   | 2008 | Brežice            | Fox    | Yes            |
| 127                   | 2008 | Šmarje pri Jelšah  | Fox    | Yes            |
| 303                   | 2008 | Rogatec            | Fox    | Yes            |
| 117                   | 2008 | Majšperk           | Fox    | Yes            |
| 177                   | 2008 | Majšperk           | Fox    | Yes            |
| 335                   | 2008 | Majšperk           | Fox    | Yes            |
| 347                   | 2008 | Majšperk           | Fox    | Yes            |
| 407                   | 2008 | Brežice            | Fox    | No             |
| 413                   | 2008 | Šmarje pri Jelšah  | Fox    | Yes            |
| 488                   | 2008 | Ptuj               | Fox    | No             |
| 532                   | 2008 | Šmarje pri Jelšah  | Fox    | No             |
| 543                   | 2008 | Cirkulane          | Fox    | Yes            |
| 1090                  | 2008 | Šmarje pri Jelšah  | Fox    | Yes            |
| 371                   | 2009 | Ilirska Bistrica   | Cow    | Yes (HM852167) |
| 370                   | 2009 | Ilirska Bistrica   | Fox    | Yes            |
| 538                   | 2009 | Loški potok        | Fox    | Yes            |
| 839                   | 2009 | Rogaška Slatina    | Fox    | No             |
| 806                   | 2009 | Majšperk           | Fox    | Yes            |
| 846                   | 2009 | Videm              | Fox    | Yes            |
| 866                   | 2009 | Kozina             | Fox    | Yes            |
| 928                   | 2009 | Ilirska Bistrica   | Fox    | Yes            |
| 938                   | 2009 | Rogaška Slatina    | Fox    | Yes            |
| 940                   | 2009 | Rogaška Slatina    | Fox    | Yes            |
| 994                   | 2009 | Videm              | Fox    | Yes            |
| 1010                  | 2009 | Loški potok        | Fox    | Yes            |
| 1085                  | 2009 | Koper              | Fox    | Yes (HM852166) |
| 1123                  | 2009 | Ilirska Bistrica   | Fox    | Yes            |
| 1220                  | 2009 | Ptuj               | Fox    | Yes            |
| 1223                  | 2009 | Makole             | Fox    | Yes            |
| 1229                  | 2009 | Loški potok        | Fox    | Yes            |
| 1262                  | 2009 | Loška dolina       | Fox    | Yes            |
| 1263                  | 2009 | Loška dolina       | Fox    | Yes            |
| 1282                  | 2009 | Metlika            | Fox    | Yes            |

|                         |      |                   |        |                |
|-------------------------|------|-------------------|--------|----------------|
| 1341                    | 2009 | Kozina            | Fox    | Yes            |
| 299                     | 2009 | Videm             | Fox    | Yes            |
| 2201                    | 2009 | Rogaška Slatina   | Fox    | Yes            |
| 2203                    | 2009 | Središče ob Dravi | Fox    | Yes            |
| 2204                    | 2009 | Sveta Trojica     | Fox    | Yes            |
| 2315                    | 2009 | Ljutomer          | Fox    | Yes            |
| 2076                    | 2009 | Rogaška Slatina   | Fox    | Yes            |
| 2384                    | 2009 | Majšperk          | Fox    | Yes            |
| 2414                    | 2009 | Podsreda          | Fox    | Yes            |
| 2415                    | 2009 | Rogaška Slatina   | Fox    | Yes            |
| 2440                    | 2009 | Šmarje pri Jelšah | Fox    | Yes            |
| 2660                    | 2009 | Majšperk          | Fox    | Yes            |
| 3000                    | 2009 | Slovenske Konjice | Fox    | Yes            |
| 3501                    | 2009 | Poljčane          | Fox    | yes            |
| 3283                    | 2009 | Šmarje pri Jelšah | Fox    | yes            |
| 52                      | 2010 | Poljčane          | Fox    | Yes (HM852163) |
| 755                     | 2010 | Žetale            | Cow    | Yes (HM852158) |
| 1083                    | 2010 | Cerknica          | Fox    | No             |
| 1084                    | 2010 | Cerknica          | Fox    | Yes            |
| 1327                    | 2010 | Rogatec           | Fox    | Yes            |
| 1466                    | 2010 | Slovenske Konjice | Fox    | Yes            |
| 1710                    | 2010 | Ptuj              | Fox    | Yes            |
| 1938                    | 2010 | Makole            | Fox    | Yes            |
| 2153                    | 2010 | Rogaška Slatina   | Fox    | Yes            |
| 2156                    | 2010 | Šmarje pri Jelšah | Fox    | Yes            |
| 3083                    | 2010 | Poljčane          | Fox    | No             |
| 4476                    | 2010 | Podlehnik         | Fox    | Yes            |
| 5533                    | 2010 | Rače              | Fox    | Yes            |
| 5761                    | 2010 | Ptuj              | Fox    | Yes            |
| 7288                    | 2010 | Rače              | Fox    | Yes            |
| 7448                    | 2010 | Podlehnik         | Fox    | Yes            |
| 467                     | 2012 | Cirkulane         | Fox    | Yes            |
| 3511 (vaccine induced)  | 2012 | Tolmin            | Fox    | Yes (KC522613) |
| 9945 (vaccine induced)  | 2014 | Ljubljana         | Marten | Yes            |
| 21082 (vaccine induced) | 2018 | Ljubljana         | Fox    | Yes            |

**Table S2.** The presentation of detected rabies positive samples in domestic and wild animal species; data collected between 1979 and 2019 (laboratory archive data from Virology Unit, NVI, Ljubljana, Slovenia).

| Year | Dog | Cat | Cat-tle | Horse | Other domes-tic animals | Red fox | Eurasian badger | European pine marten | Roe deer | Other wild-life animals | Number of positive cases | Number of all animals tested | Incidence of positive cases |
|------|-----|-----|---------|-------|-------------------------|---------|-----------------|----------------------|----------|-------------------------|--------------------------|------------------------------|-----------------------------|
| 1979 | 1   | 2   | 1       | 0     | 0                       | 102     | 1               | 0                    | 3        | 0                       | 110                      | 1198                         | 9,18                        |
| 1980 | 3   | 9   | 5       | 0     | 0                       | 807     | 12              | 1                    | 24       | 5                       | 866                      | 3414                         | 25,37                       |
| 1981 | 16  | 35  | 12      | 0     | 0                       | 1637    | 67              | 5                    | 69       | 10                      | 1851                     | 7913                         | 23,39                       |
| 1982 | 2   | 7   | 4       | 0     | 0                       | 540     | 19              | 1                    | 11       | 3                       | 587                      | 3739                         | 15,70                       |
| 1983 | 3   | 6   | 0       | 0     | 0                       | 403     | 9               | 3                    | 6        | 1                       | 431                      | 2595                         | 16,61                       |
| 1884 | 1   | 10  | 1       | 0     | 0                       | 492     | 12              | 0                    | 12       | 1                       | 529                      | 2385                         | 22,18                       |
| 1985 | 1   | 2   | 0       | 0     | 0                       | 182     | 2               | 2                    | 1        | 0                       | 190                      | 1497                         | 12,69                       |
| 1986 | 1   | 1   | 0       | 0     | 0                       | 116     | 1               | 0                    | 0        | 0                       | 119                      | 1145                         | 10,39                       |
| 1987 | 2   | 4   | 0       | 0     | 0                       | 315     | 3               | 1                    | 2        | 0                       | 327                      | 1235                         | 26,48                       |
| 1988 | 13  | 12  | 4       | 1     | 3                       | 981     | 14              | 15                   | 19       | 5                       | 1067                     | 2963                         | 36,01                       |
| 1989 | 8   | 13  | 2       | 1     | 0                       | 773     | 29              | 10                   | 9        | 2                       | 847                      | 2181                         | 38,84                       |
| 1990 | 6   | 12  | 0       | 0     | 0                       | 327     | 6               | 4                    | 3        | 2                       | 360                      | 1249                         | 28,82                       |
| 1991 | 2   | 13  | 2       | 0     | 0                       | 260     | 5               | 6                    | 0        | 1                       | 289                      | 1185                         | 24,39                       |
| 1992 | 6   | 4   | 1       | 0     | 0                       | 203     | 4               | 10                   | 6        | 4                       | 238                      | 1365                         | 17,44                       |
| 1993 | 8   | 13  | 1       | 0     | 1                       | 476     | 14              | 10                   | 7        | 1                       | 531                      | 2019                         | 26,30                       |
| 1994 | 12  | 11  | 4       | 1     | 0                       | 753     | 21              | 19                   | 19       | 2                       | 842                      | 2632                         | 31,99                       |
| 1995 | 12  | 24  | 4       | 1     | 4                       | 997     | 11              | 20                   | 15       | 1                       | 1089                     | 3787                         | 28,76                       |
| 1996 | 11  | 17  | 1       | 0     | 0                       | 208     | 1               | 5                    | 4        | 0                       | 247                      | 2285                         | 10,81                       |
| 1997 | 1   | 6   | 1       | 0     | 0                       | 18      | 2               | 2                    | 2        | 0                       | 32                       | 1224                         | 2,61                        |
| 1998 | 0   | 0   | 0       | 0     | 0                       | 14      | 0               | 0                    | 0        | 0                       | 14                       | 1381                         | 1,01                        |
| 1999 | 0   | 1   | 0       | 0     | 0                       | 5       | 0               | 0                    | 0        | 0                       | 6                        | 1195                         | 0,50                        |

|              |            |            |           |          |          |             |            |            |            |           |              |              |              |
|--------------|------------|------------|-----------|----------|----------|-------------|------------|------------|------------|-----------|--------------|--------------|--------------|
| 2000         | 2          | 2          | 0         | 0        | 0        | 104         | 3          | 0          | 0          | 3         | 114          | 1509         | 7,55         |
| 2001         | 7          | 3          | 0         | 0        | 0        | 117         | 2          | 3          | 3          | 0         | 135          | 2153         | 6,27         |
| 2002         | 0          | 0          | 0         | 0        | 0        | 14          | 1          | 0          | 0          | 0         | 15           | 1495         | 1,00         |
| 2003         | 0          | 0          | 0         | 0        | 0        | 8           | 0          | 0          | 0          | 0         | 8            | 993          | 0,81         |
| 2004         | 0          | 0          | 0         | 0        | 0        | 2           | 0          | 0          | 0          | 0         | 2            | 1612         | 0,12         |
| 2005         | 0          | 0          | 0         | 0        | 0        | 3           | 0          | 0          | 0          | 0         | 3            | 1603         | 0,19         |
| 2006         | 0          | 0          | 0         | 0        | 0        | 2           | 0          | 0          | 0          | 0         | 2            | 1896         | 0,11         |
| 2007         | 0          | 0          | 0         | 0        | 0        | 3           | 0          | 0          | 0          | 0         | 3            | 2075         | 0,14         |
| 2008         | 1          | 0          | 0         | 1        | 0        | 51          | 2          | 0          | 0          | 0         | 55           | 2618         | 2,10         |
| 2009         | 0          | 0          | 1         | 0        | 0        | 34          | 0          | 0          | 0          | 0         | 35           | 2808         | 1,25         |
| 2010         | 0          | 0          | 1         | 0        | 0        | 15          | 0          | 0          | 0          | 0         | 16           | 2590         | 0,62         |
| 2011         | 0          | 0          | 0         | 0        | 0        | 0           | 0          | 0          | 0          | 9         | 9            | 2229         | 0,40         |
| 2012         | 0          | 0          | 0         | 0        | 0        | 3           | 0          | 0          | 0          | 0         | 3            | 2161         | 0,14         |
| 2013         | 0          | 0          | 0         | 0        | 0        | 1           | 0          | 0          | 0          | 0         | 1            | 1918         | 0,05         |
| 2014         | 0          | 0          | 0         | 0        | 0        | 0           | 0          | 1          | 0          | 0         | 1            | 2085         | 0,05         |
| 2015         | 0          | 0          | 0         | 0        | 0        | 0           | 0          | 0          | 0          | 0         | 0            | 1985         | 0,00         |
| 2016         | 0          | 0          | 0         | 0        | 0        | 0           | 0          | 0          | 0          | 0         | 0            | 1739         | 0,00         |
| 2017         | 0          | 0          | 0         | 0        | 0        | 0           | 0          | 0          | 0          | 0         | 0            | 1771         | 0,00         |
| 2018         | 0          | 0          | 0         | 0        | 0        | 1           | 0          | 0          | 0          | 0         | 1            | 1266         | 0,08         |
| 2019         | 0          | 0          | 0         | 0        | 0        | 0           | 0          | 0          | 0          | 0         | 0            | 1378         | 0,00         |
| <b>TOTAL</b> | <b>119</b> | <b>207</b> | <b>45</b> | <b>5</b> | <b>8</b> | <b>9967</b> | <b>241</b> | <b>118</b> | <b>215</b> | <b>50</b> | <b>10975</b> | <b>86471</b> | <b>12,69</b> |