

## SUPPLEMENTARY ONLINE MATERIAL 1

**Table S1.** Dog microsatellite loci tested in this study for genotyping Pampas fox, with corresponding repeat motif, and reference.

<b>Locus name</b>	<b>Repeat type</b>	<b>Reference</b>
AHT103 - AHT121 - AHT137	Di	Holmes et al. 1995.
AHT111	Di	Holmes et al. 1993.
AHT132	Di	by N, Holmes.
AHTh171 - FH2848 - REN64E19 - AHTh260	Di compound	Breen et al. 2001. Breen et al. 2001
AHTk211 - AHTk253	Di	Lingaas et al. 1997.
C04.140 - C09.173 - C20.253 - C22.279	Di	Ostrander et al. 1993.
C08.410 - C08.618 - C09.474 - C20.446 - C27.442 - CXX.459	Di	Ostrander et al. 1995.
C13.758 - C14.866	Di	Mellersh et al. 1997.
CPH2 - CPH5 - CPH9 - CPH14	Di	Fredholm & Winterø 1995.
FH2001 - FH2161 - FH2079 - FH2054 - FH2010	Tetra	Francisco et al. 1996.
INRA21	Di	Mariat et al. 1996.
INU005 - INU030 - INU055	Di	Finnzymes, Inc.
PEZ1 -PEZ5	Tetra	Neff et al. 1999.
PEZ3	Tri	Neff et al. 1999.
REN162C4 - REN169D1 - REN169O18 - REN247M23 - REN54P11	Di	Guyon et al. 2003.
VWF	Hexa	Shibuya et al. 1993.
Dbar2	Di	Kerns et al. 2004

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FRANCISCO, L. V., A. A. LANGSTON, C. S. MELLERSH, C. L. NEAL & E. A. OSTRANDER. 1996. A class of highly polymorphic tetranucleotide repeats for canine genetic mapping. *Mammalian Genome* 7:359–362.

FREDHOLM, M. & A. K. WINTERØ. 1995. Variation of short tandem repeats within and between species belonging to the Canidae family. *Mammalian Genome* 6:11–18.

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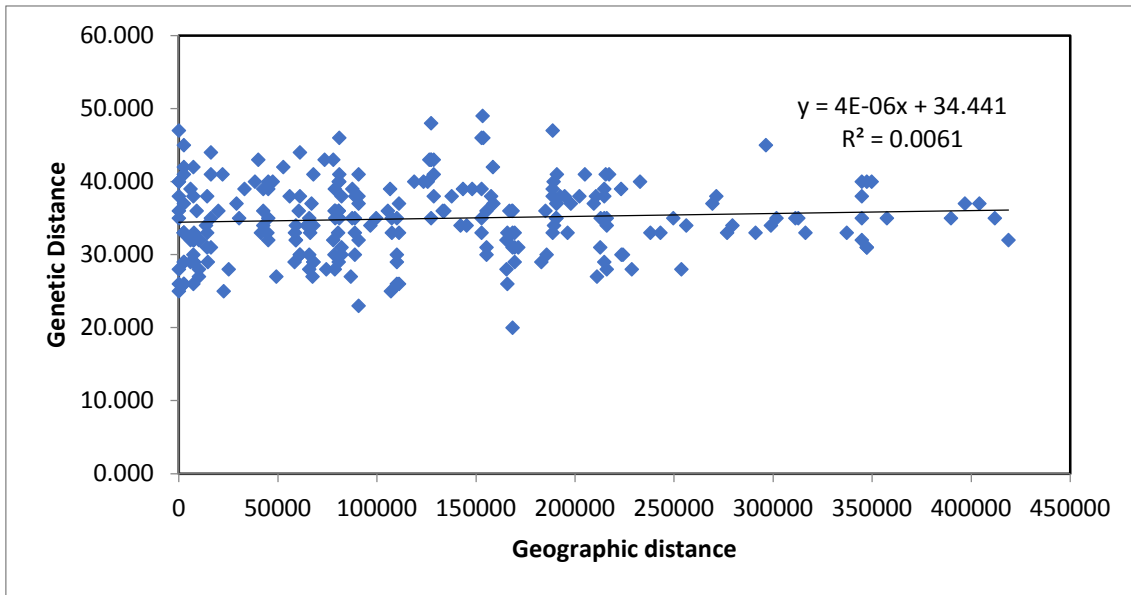
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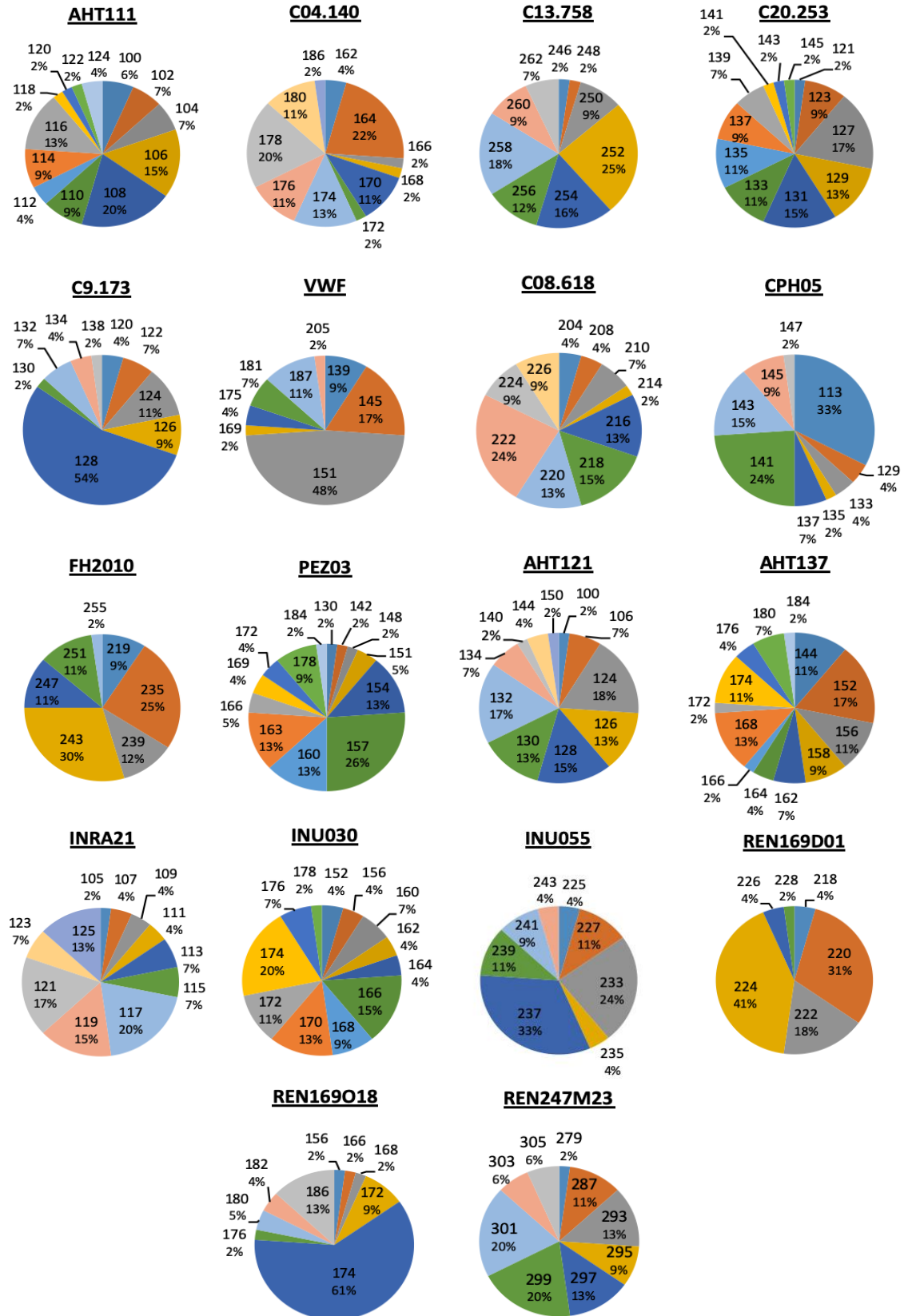
**Table S2.** PCR conditions for microsatellite loci tested in this study for genotyping Pampas fox. In bold are highlighted the microsatellites that were successfully amplified.

Modified from Silva et al. (2018).

Locus	Dye	Multiplex	Conditions	
			Temperature	N Cycles
<b>FH2010</b>	FAM			
FH2079	NED		95°C (15')	1
PEZ1	FAM		95°C (30")	
<b>PEZ3</b>	NED	MS1	56°C (45")	40
PEZ5	VIC		72°C (45")	
AHT132	VIC		60°C (30')	1
C27.442	PET			
<b>AHT103</b>	NED			
<b>AHT111</b>	VIC			
<b>C04.140</b>	PET		95°C (15')	1
<b>C09.173</b>	NED		95°C (30")	
<b>C13.758</b>	FAM	MS2	56°C (45")	40
<b>C14.866</b>	VIC		72°C (45")	
<b>C20.253</b>	PET		60°C (30')	1
<b>CPH14</b>	FAM			
FH2001	FAM			
<b>VWF</b>	NED			
C08.410	VIC		95°C (15')	1
<b>C08.618</b>	VIC		95°C (30")	
C09.474	PET		60°C (45")	7 (-0.5°C)
C20.446	NED		72°C (45")	
CPH02	NED	MS3	95°C (30")	
<b>CPH05</b>	FAM		57°C (45")	33
CPH09	NED		72°C (45")	
CXX459	VIC		60°C (30')	1
FH2161	NED			
REN64E19	FAM			
<b>AHT121</b>	PET			
<b>AHT137</b>	VIC			
AHTh171	PET			
AHTh260	VIC			
AHTk253	VIC			
AHTk211	FAM			
C22.279	FAM	Thermo		
FH2054	PET	Fisher		
FH2848	NED	Scientific	98°C (3')	1
<b>INRA21</b>	VIC	(Canine	98°C (15")	
INU005	NED	Genotypes	60°C (75")	40
<b>INU030</b>	NED	Panel 2.1 Kit)	72°C (45")	
<b>INU055</b>	FAM		72°C (5')	1
REN162C04	PET			
<b>REN169D01</b>	VIC			
<b>REN169O18</b>	FAM			
<b>REN247M23</b>	PET			
REN54P11	FAM			



**Figure S1.** Scatterplot showing the results of the Mantel test between the matrix of genetic distances and the matrix of geographic distances to test for the presence of isolation by distance.



**Figure S2.** Allele frequencies of 18 microsatellite loci used for genetic diversity and population structure assessment of Pampas foxes from southern Argentine Espinal ecoregion.