

Supplementary Table S1. The studied populations of *P.sylvestris* used in ISSR analysis.

Population	Location	Coordinates
<i>PS_KOCh</i>	Perm Krai, Kochyovo's forestry	N: 59.614878 E: 54.438009
<i>PS_SOSN</i>	Perm Krai, Gainy's forestry	N: 60.341429 E: 53.840531
<i>PS_KISH</i>	Perm Krai, Kishert's forestry	N: 57.359558 E: 57.171923
<i>PS_LENI</i>	Perm Krai, Kudymkar's forestry	N: 58.692572 E: 54.694052
<i>PS_ChER</i>	Perm Krai, Cherdyn's forestry	N: 60.433611 E: 56.307557
<i>PS_ROMA</i>	Perm Krai, Berezniki's forestry	N: 59.146163 E: 56.794847
<i>PS_LOKC</i>	Komi Republic, Lokchim's forestry	N: 61.349444 E: 51.912500
<i>PS_SYSO</i>	Komi Republic, Sysolsky's forestry	N: 61.013889 E: 49.907500
<i>PS_KRAS</i>	Arkhangelsk Oblast, Krasnoborsk's forestry	N: 61.530278 E: 45.945556
<i>PS_VELI</i>	Vologda Oblast, Velikoustyugsky's forestry	N: 60.450556 E: 46.045000
<i>PS_PYSH</i>	Kostroma Oblast, Pyshchugsky's forestry	N: 58.833611 E: 45.694167
<i>PS_UREN</i>	Nizhny Novgorod Oblast, Urensky's forestry	N: 57.434167 E: 45.838611
<i>PS_KORO</i>	Mari El Republic, Korotni's forestry	N: 56.638611 E: 46.204722
<i>PS_KOKSh</i>	Mari El Republic, Kokshaysk's forestry	N: 56.251944 E: 47.589722
<i>PS_KIRS</i>	Chuvash Republic, Kirsk's forestry	N: 55.086944 E: 46.882500
<i>PS_INZE</i>	Ulyanovsk Oblast, Inzensky's forestry	N: 53.876111 E: 46.388056
<i>PS_SHAB</i>	Kirov Oblast, Shabalinsky's forestry	N: 58.752500 E: 47.267222
<i>PS_YEZH</i>	Kirov Oblast, Yezhikhinsk's forestry	N: 58.058056 E: 47.703889
<i>PS_DARO</i>	Kirov Oblast, Darovskoy's forestry	N: 58.756111 E: 48.122778
<i>PS_YURY</i>	Kirov Oblast, Yuryansky's forestry	N: 59.084444 E: 49.290278
<i>PS_SLOB</i>	Kirov Oblast, Slobodskoy's forestry	N: 58.738056 E: 50.075278
<i>PS_BELO</i>	Kirov Oblast, Belokholunitsky,s forestry	N: 58.771667 E: 50.943333

International geographical latitude designations: N - northern latitude; E - Eastern longitude

Supplementary Table S2. Pairwise geographic distances (km) between the studied populations of *P. sylvestris*. PS_KOCh, PS_SOSN, PS_KISH, PS_LENI, PS_CHER, PS_ROMA, PS_LOKC, PS_SYSO, PS_KRAS, PS_VELI, PS_PYSH, PS_UREN, PS_KORO, PS_KOKSh, PS_KIRS, PS_INZE, PS_SHAB, PS_YEZH, PS_DARO, PS_YURY, PS_SLOB - population designations.

<i>PS_KOCh</i>	<i>PS_SLOB</i>	<i>PS_YURY</i>	<i>PS_DARO</i>	<i>PS_BELO</i>
87	0			<i>PS_SOSN</i>
297	383	0		<i>PS_KISH</i>
104	190	208	0	<i>PS_LENI</i>
138	136	345	214	<i>PS_ChER</i>
143	212	200	131	<i>PS_ROMA</i>
237	153	534	333	<i>PS_LOKC</i>
294	227	579	371	<i>PS_SYSO</i>
510	446	784	578	<i>PS_KRAS</i>
475	428	724	524	<i>PS_VELI</i>
505	488	693	519	<i>PS_PYSH</i>
419	410	602	429	<i>PS_UREN</i>
424	432	567	413	<i>PS_KORO</i>
554	561	678	539	<i>PS_KOKSh</i>
585	605	668	554	<i>PS_KIRS</i>
550	583	596	504	<i>PS_INZE</i>
677	715	684	621	<i>PS_SHAB</i>
804	847	779	740	<i>PS_YEZH</i>
372	367	554	379	<i>PS_DARO</i>
298	291	499	313	<i>PS_YURY</i>
267	277	445	267	<i>PS_SLOB</i>
220	239	398	217	<i>PS_BELO</i>

Supplementary Table S3. Paired *PhiPT* genetic distances between the studied populations of *P. sylvestris* by AMOVA. *PS_KOCh*, *PS_SOSN*, *PS_KISH*, *PS_LENI*, *PS_ChER*, *PS_ROMA*, *PS_LOKC*, *PS_SYSO*, *PS_KRAS*, *PS_VELI*, *PS_PYSH*, *PS_UREN*, *PS_KORO*, *PS_KOKSh*, *PS_KIRS*, *PS_INZE*, *PS_SHAB*, *PS_YEZH*, *PS_DARO*, *PS_YURY*, *PS_SLOB* - population designations.

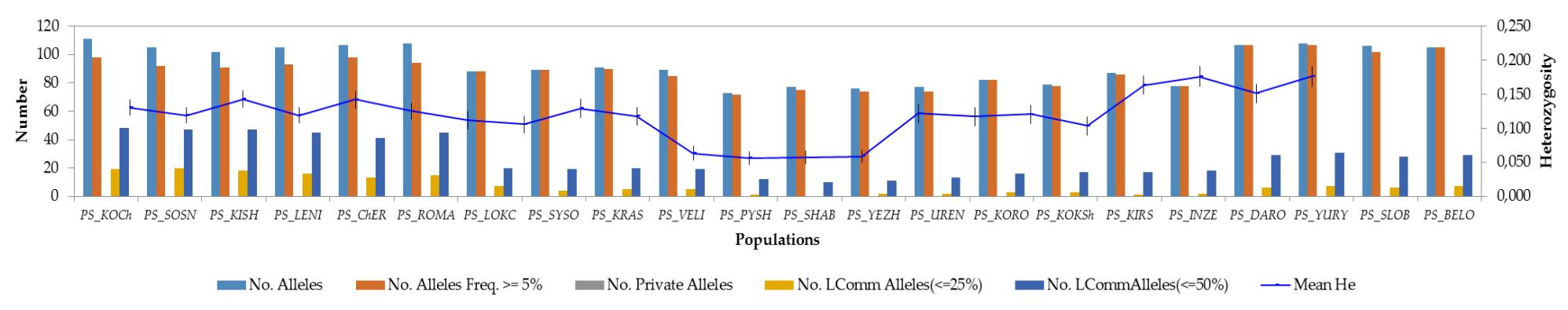
Supplementary Table S4. Pairwise genetic distances (D_N) between the populations studied *Pinus sylvestris* L. PS_KOCH, PS_SOSN, PS_KISH, PS_LENI, PS_ChER, PS_ROMA, PS_LOKC, PS_SYSO, PS_KRAS, PS_VELI, PS_PYSH, PS_UREN, PS_KORO, PS_KOKSh, PS_KIRS, PS_INZE, PS_SHAB, PS_YEZH, PS_DARO, PS_YURY, PS_SLOB - population designations.

Supplementary Table S5. Regression analysis of genetic and geographical distances.

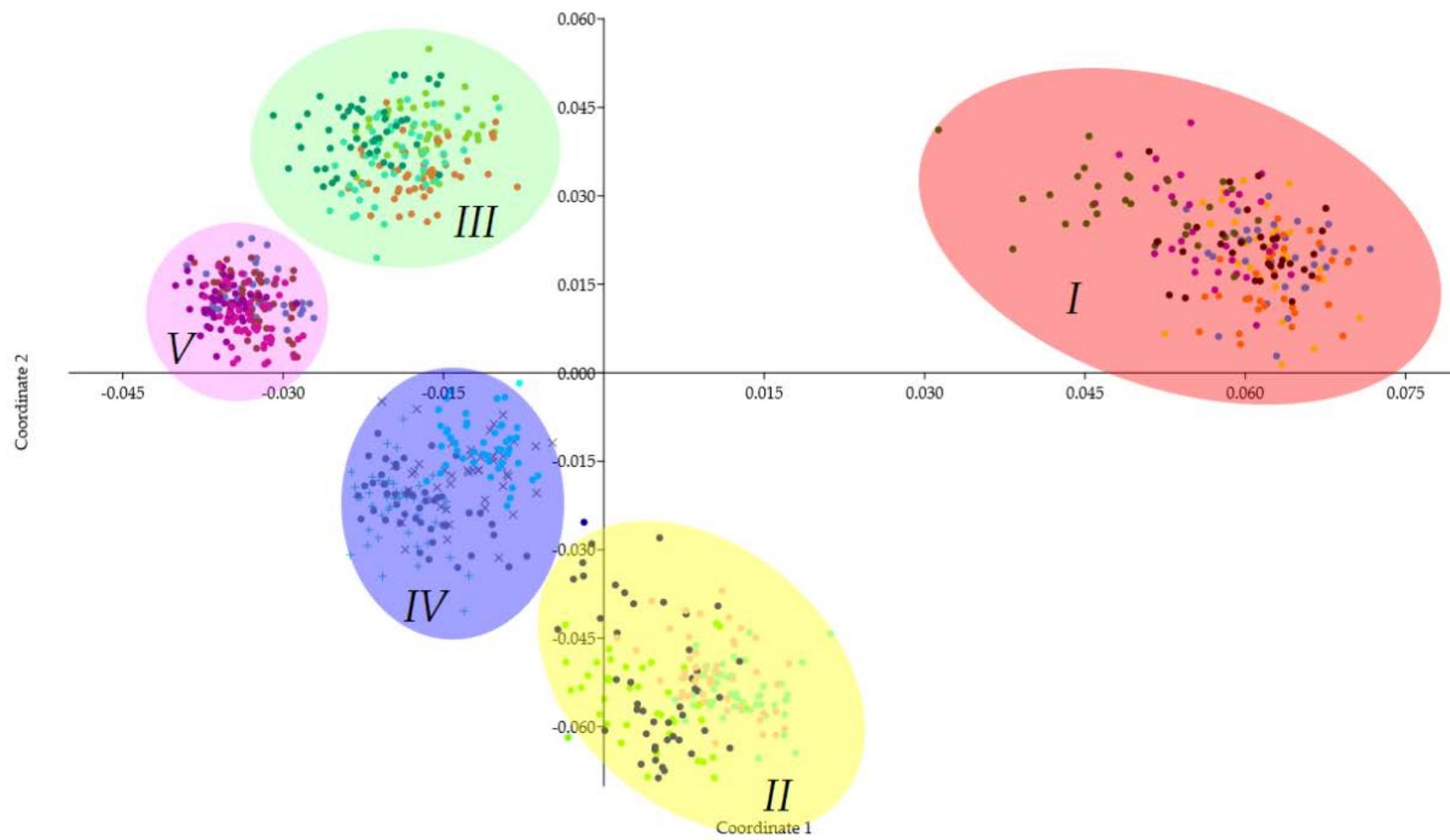
Regression statistics	
Multiple R	0.503437
R-square	0.253449
Normalized R-square	0.250189
Standard error	0.061977
Observations	231
Significance F	3.02E-16



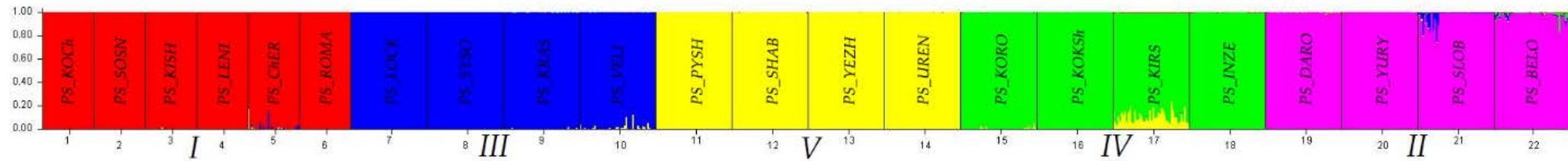
Supplementary Figure S1. Schematic map of the location of the studied populations of *P. sylvestris*.



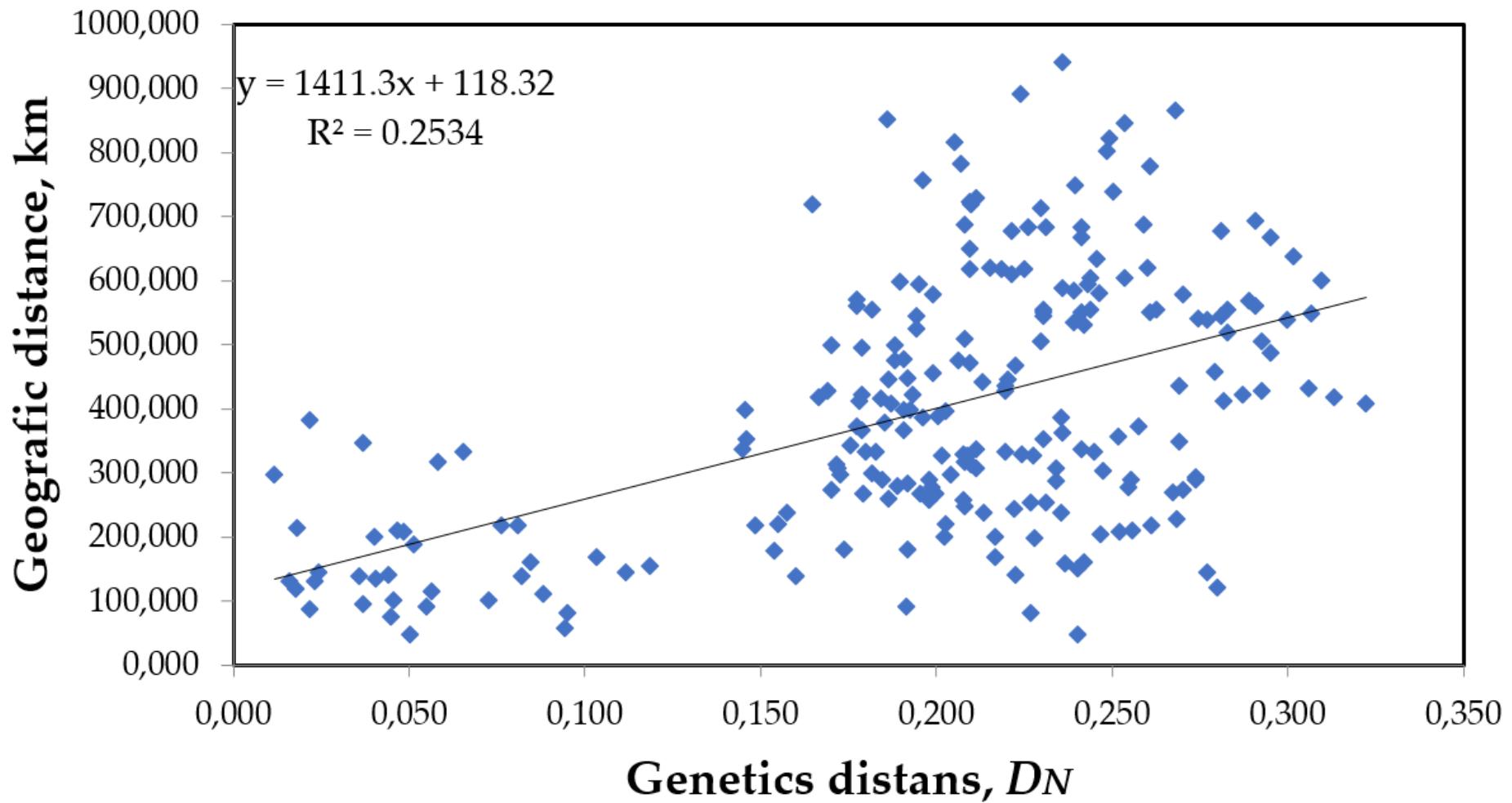
Supplementary Figure S2. Allele patterns of *P. sylvestris* populations.



Supplementary Figure S3. Ordination of the studied populations of *P. sylvestris* using PCA, obtained on the basis of PhiPT matrix of genetic distances.



Supplementary Figure S4. The structure of the distribution of genotypes in *P. sylvestris* populations at K=5; vertically - the proportion of allele frequencies of the corresponding cluster (posterior probability), horizontally - sample numbers.



Supplementary Figure S5. Graph of dependence of genetic (D_N) and geographical distances of *P. sylvestris* populations.