Table S9 Correlation analysis between differentially methylated region and local SNP in *Populus tomentosa* and *Populus simonii*.

Species	Comparison	Context	Type	DMR	Interacting SNP in LD
Populus tomentosa	Southern vs. Northwestern	CG	Hypo in Northwestern	0	/
			Hyper in Northwestern	1	12
		CHG	Hypo in Northwestern	0	/
			Hyper in Northwestern	1	4
		СНН	Hypo in Northwestern	0	/
			Hyper in Northwestern	0	1
	Southern vs. Northeastern —	CG	Hypo in Northeastern	0	/
			Hyper in Northeastern	2	70
		CHG	Hypo in Northeastern	0	/
			Hyper in Northeastern	1	4
		СНН	Hypo in Northeastern	0	/
			Hyper in Northeastern	2	0
	Northwestern vs. Northeastern	CG	Hypo in Northeastern	0	/
			Hyper in Northeastern	0	/
		CHG	Hypo in Northeastern	0	/
			Hyper in Northeastern	0	/
		СНН	Hypo in Northeastern	0	/
			Hyper in Northeastern	1	1
Populus simonii	Southern vs. Northwestern	CG	Hypo in Northwestern	0	/
			Hyper in Northwestern	0	/
		CHG	Hypo in Northwestern	0	/
			Hyper in Northwestern	0	/
		СНН	Hypo in Northwestern	0	/

		Hyper in Northwestern	0	/
	CG	Hypo in Northeastern	0	/
		Hyper in Northeastern	1	2
	CHG	Hypo in Northeastern	0	/
Southern vs. Northeastern		Hyper in Northeastern	0	/
	СНН	Hypo in Northeastern	0	/
		Hyper in Northeastern	0	/
	CC	Hypo in Northeastern	0	/
Northwestern vs. Northeastern	CG	Hyper in Northeastern	0	/
	CHG	Hypo in Northeastern	0	/
		Hyper in Northeastern	0	/
	СНН	Hypo in Northeastern	0	/
		Hyper in Northeastern	0	/