

附录 7 基于 STRUCTURE 分析  $K = 2$  时的 491 个胡桃样本的群体指派概率( $Q$  值)及分组

Appendix 7 Group assignment probability ( $Q$  value) of 491 *Juglans regia* samples based on STRUCTURE results at  $K = 2$

个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派
Individual	Group 1	Group 2	Group	Individual	Group 1	Group 2	Group	Individual	Group 1	Group 2	Group	Individual	Group 1	Group 2	Group
	( $Q$ )	( $Q$ )	assignment		( $Q$ )	( $Q$ )	assignment		( $Q$ )	( $Q$ )	assignment		( $Q$ )	( $Q$ )	assignment
CCR01	0.984	0.016	Group 1	JCR25	0.996	0.004	Group 1	QCR22	0.796	0.204	Hybrid	WAR29	0.994	0.006	Group 1
CCR02	0.987	0.013	Group 1	JCR26	0.996	0.004	Group 1	QCR23	0.753	0.247	Hybrid	WAR30	0.986	0.014	Group 1
CCR03	0.996	0.004	Group 1	JCR27	0.995	0.005	Group 1	QCR24	0.995	0.005	Group 1	WLZR01	0.010	0.990	Group 2
CCR04	0.935	0.065	Group 1	JCR28	0.981	0.019	Group 1	QCR25	0.563	0.437	Hybrid	WLZR02	0.996	0.005	Group 1
CCR05	0.993	0.007	Group 1	JCR29	0.996	0.004	Group 1	QCR26	0.669	0.331	Hybrid	WLZR03	0.990	0.010	Group 1
CCR06	0.951	0.049	Group 1	JCR30	0.996	0.004	Group 1	QCR27	0.595	0.405	Hybrid	WLZR04	0.996	0.004	Group 1
CCR07	0.988	0.012	Group 1	KYR01	0.003	0.997	Group 2	QCR28	0.994	0.006	Group 1	WLZR05	0.993	0.007	Group 1
CCR08	0.992	0.008	Group 1	KYR02	0.010	0.990	Group 2	QCR29	0.992	0.008	Group 1	WLZR06	0.995	0.005	Group 1
CCR09	0.996	0.004	Group 1	KYR03	0.005	0.995	Group 2	QCR30	0.998	0.002	Group 1	WLZR07	0.005	0.995	Group 2
CCR10	0.997	0.003	Group 1	KYR04	0.002	0.998	Group 2	RCR01	0.985	0.015	Group 1	WLZR08	0.995	0.005	Group 1
CCR11	0.989	0.011	Group 1	KYR05	0.004	0.996	Group 2	RCR02	0.984	0.016	Group 1	WLZR09	0.995	0.006	Group 1
CCR12	0.983	0.017	Group 1	KYR06	0.994	0.006	Group 1	RCR03	0.965	0.035	Group 1	WLZR10	0.995	0.006	Group 1
CCR13	0.942	0.058	Group 1	KYR07	0.009	0.991	Group 2	RCR04	0.864	0.136	Group 1	WLZR11	0.996	0.004	Group 1
CCR14	0.996	0.004	Group 1	KYR08	0.010	0.990	Group 2	RCR06	0.969	0.032	Group 1	WLZR12	0.995	0.005	Group 1
CCR15	0.991	0.009	Group 1	KYR09	0.986	0.014	Group 1	RCR07	0.984	0.016	Group 1	WLZR13	0.994	0.006	Group 1
CCR16	0.993	0.007	Group 1	KYR10	0.990	0.010	Group 1	RCR08	0.982	0.018	Group 1	WLZR14	0.036	0.964	Group 2
CCR17	0.996	0.004	Group 1	KYR11	0.989	0.012	Group 1	RCR09	0.941	0.059	Group 1	WLZR15	0.998	0.003	Group 1
CCR18	0.991	0.009	Group 1	KYR12	0.995	0.005	Group 1	RCR10	0.921	0.079	Group 1	WLZR16	0.996	0.004	Group 1
CCR19	0.830	0.170	Group 1	KYR13	0.983	0.017	Group 1	RCR11	0.993	0.007	Group 1	WLZR17	0.995	0.005	Group 1
CCR20	0.991	0.009	Group 1	KYR14	0.675	0.325	Hybrid	RCR12	0.994	0.006	Group 1	WLZR18	0.008	0.992	Group 2
CCR21	0.987	0.013	Group 1	KYR15	0.957	0.043	Group 1	RCR13	0.996	0.004	Group 1	WLZR19	0.991	0.009	Group 1
CCR22	0.994	0.006	Group 1	KYR16	0.826	0.174	Group 1	RCR14	0.995	0.006	Group 1	WLZR20	0.989	0.011	Group 1
CCR23	0.973	0.027	Group 1	KYR17	0.991	0.010	Group 1	RCR15	0.991	0.009	Group 1	WLZR21	0.995	0.005	Group 1
CCR24	0.993	0.007	Group 1	KYR18	0.794	0.206	Hybrid	RCR16	0.995	0.005	Group 1	WLZR22	0.975	0.025	Group 1
CCR25	0.996	0.004	Group 1	KYR19	0.991	0.009	Group 1	RCR17	0.981	0.019	Group 1	WLZR23	0.004	0.996	Group 2
CCR26	0.980	0.020	Group 1	KYR20	0.968	0.033	Group 1	RCR18	0.990	0.010	Group 1	WLZR24	0.055	0.945	Group 2

个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派
Individual	Group 1	Group 2	Group assignment	Individual	Group 1	Group 2	Group assignment	Individual	Group 1	Group 2	Group assignment	Individual	Group 1	Group 2	Group assignment
	(Q)	(Q)			(Q)	(Q)			(Q)	(Q)			(Q)	(Q)	
CCR27	0.995	0.005	Group 1	KYR21	0.992	0.009	Group 1	RCR19	0.992	0.008	Group 1	WLZR25	0.990	0.010	Group 1
CCR28	0.990	0.010	Group 1	KYR22	0.993	0.007	Group 1	RCR20	0.997	0.003	Group 1	WLZR26	0.989	0.011	Group 1
CCR29	0.992	0.008	Group 1	KYR23	0.984	0.016	Group 1	RCR21	0.994	0.007	Group 1	WLZR27	0.979	0.021	Group 1
CCR30	0.909	0.091	Group 1	KYR24	0.843	0.157	Group 1	RCR22	0.800	0.200	Group 1	WLZR28	0.990	0.011	Group 1
GBR01	0.997	0.003	Group 1	KYR25	0.991	0.009	Group 1	SGR01	0.938	0.062	Group 1	WLZR29	0.992	0.008	Group 1
GBR02	0.975	0.025	Group 1	KYR26	0.980	0.020	Group 1	SGR02	0.996	0.004	Group 1	WLZR30	0.978	0.022	Group 1
GBR03	0.991	0.009	Group 1	KYR27	0.943	0.057	Group 1	SGR03	0.995	0.005	Group 1	WQR01	0.997	0.003	Group 1
GBR04	0.993	0.007	Group 1	KYR28	0.925	0.075	Group 1	SGR04	0.996	0.004	Group 1	WQR02	0.996	0.004	Group 1
GBR05	0.993	0.007	Group 1	KYR29	0.205	0.795	Hybrid	SGR05	0.994	0.006	Group 1	WQR03	0.995	0.005	Group 1
GBR06	0.979	0.021	Group 1	KYR30	0.519	0.481	Hybrid	SGR06	0.997	0.003	Group 1	WQR04	0.996	0.004	Group 1
GBR07	0.991	0.009	Group 1	LIUJ11248	0.996	0.004	Group 1	SGR07	0.997	0.003	Group 1	WQR05	0.996	0.004	Group 1
GBR08	0.994	0.006	Group 1	LIUJ11249	0.948	0.053	Group 1	SGR08	0.994	0.007	Group 1	WQR06	0.996	0.005	Group 1
GBR09	0.992	0.008	Group 1	LIUJ11250	0.657	0.343	Hybrid	SGR09	0.693	0.307	Hybrid	WQR07	0.997	0.003	Group 1
GBR11	0.993	0.007	Group 1	LIUJ11251	0.523	0.478	Hybrid	SGR10	0.995	0.005	Group 1	WQR08	0.991	0.009	Group 1
GBR13	0.928	0.072	Group 1	LIUJ11252	0.996	0.004	Group 1	SGR11	0.993	0.007	Group 1	WQR09	0.994	0.006	Group 1
GBR14	0.987	0.014	Group 1	LIUJ11253	0.996	0.004	Group 1	SGR12	0.995	0.005	Group 1	WQR10	0.995	0.005	Group 1
GQR01	0.995	0.005	Group 1	LSR01	0.991	0.009	Group 1	SGR13	0.997	0.003	Group 1	WQR11	0.996	0.004	Group 1
GQR02	0.943	0.057	Group 1	LSR02	0.993	0.007	Group 1	SGR14	0.997	0.003	Group 1	WQR12	0.996	0.004	Group 1
GQR03	0.994	0.006	Group 1	LSR03	0.983	0.017	Group 1	SGR15	0.910	0.090	Group 1	WQR13	0.996	0.004	Group 1
GQR04	0.951	0.049	Group 1	LSR04	0.986	0.014	Group 1	SGR16	0.969	0.031	Group 1	WQR14	0.996	0.004	Group 1
GQR05	0.948	0.052	Group 1	LSR05	0.984	0.016	Group 1	SGR17	0.995	0.005	Group 1	WQR15	0.990	0.010	Group 1
GQR06	0.987	0.013	Group 1	LSR06	0.967	0.034	Group 1	SGR18	0.995	0.005	Group 1	WQR16	0.840	0.160	Group 1
GQR07	0.961	0.039	Group 1	LSR07	0.984	0.016	Group 1	SGR19	0.996	0.004	Group 1	WQR17	0.943	0.057	Group 1
GQR08	0.995	0.005	Group 1	LSR08	0.989	0.011	Group 1	SGR20	0.994	0.006	Group 1	WQR18	0.761	0.239	Hybrid
GQR09	0.997	0.003	Group 1	LSR09	0.985	0.015	Group 1	SGR21	0.997	0.003	Group 1	WQR19	0.995	0.005	Group 1
GQR10	0.996	0.004	Group 1	LSR10	0.003	0.997	Group 2	SGR22	0.992	0.008	Group 1	WQR20	0.997	0.003	Group 1
GQR11	0.986	0.014	Group 1	LSR11	0.828	0.172	Group 1	SGR23	0.994	0.006	Group 1	WQR21	0.997	0.003	Group 1
GQR12	0.991	0.009	Group 1	LSR12	0.995	0.005	Group 1	SGR24	0.990	0.010	Group 1	WQR22	0.997	0.003	Group 1

个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派
Individual	Group 1	Group 2	Group	Individual	Group 1	Group 2	Group	Individual	Group 1	Group 2	Group	Individual	Group 1	Group 2	Group
	(Q)	(Q)	assignment		(Q)	(Q)	assignment		(Q)	(Q)	assignment		(Q)	(Q)	assignment
GQR13	0.995	0.006	Group 1	LSR13	0.998	0.003	Group 1	SGR25	0.997	0.003	Group 1	WQR23	0.997	0.003	Group 1
GQR14	0.980	0.020	Group 1	LSR14	0.026	0.974	Group 2	SGR26	0.996	0.004	Group 1	WQR24	0.993	0.007	Group 1
GQR15	0.995	0.005	Group 1	LSR15	0.907	0.093	Group 1	SGR27	0.996	0.004	Group 1	WQR25	0.996	0.004	Group 1
GQR16	0.995	0.005	Group 1	LSR16	0.810	0.190	Group 1	SGR28	0.996	0.004	Group 1	WQR26	0.996	0.004	Group 1
GQR17	0.991	0.009	Group 1	LSR17	0.947	0.053	Group 1	SGR29	0.996	0.004	Group 1	WQR27	0.983	0.017	Group 1
GQR18	0.985	0.015	Group 1	LSR18	0.993	0.007	Group 1	SGR30	0.997	0.003	Group 1	WQR28	0.995	0.005	Group 1
GQR19	0.996	0.004	Group 1	LSR19	0.761	0.240	Hybrid	SXHT01	0.923	0.077	Group 1	WQR29	0.997	0.003	Group 1
GQR20	0.997	0.003	Group 1	LSR20	0.994	0.006	Group 1	SXHT04	0.993	0.007	Group 1	WQR30	0.997	0.003	Group 1
GQR21	0.754	0.247	Hybrid	LSR21	0.981	0.019	Group 1	SXHT05	0.952	0.048	Group 1	YFR01	0.915	0.085	Group 1
GQR22	0.672	0.328	Hybrid	LSR22	0.730	0.270	Hybrid	SXHT06	0.992	0.008	Group 1	YFR02	0.993	0.007	Group 1
GQR23	0.988	0.012	Group 1	LSR23	0.859	0.141	Group 1	SXHT07	0.475	0.525	Hybrid	YFR03	0.994	0.006	Group 1
GQR24	0.984	0.016	Group 1	LSR24	0.826	0.174	Group 1	TBR01	0.997	0.003	Group 1	YFR04	0.993	0.007	Group 1
GQR25	0.828	0.172	Group 1	LSR25	0.978	0.022	Group 1	TBR02	0.996	0.004	Group 1	YFR05	0.984	0.016	Group 1
GQR26	0.996	0.004	Group 1	LSR26	0.997	0.003	Group 1	TBR03	0.996	0.004	Group 1	YFR06	0.988	0.012	Group 1
GQR27	0.996	0.004	Group 1	LSR27	0.998	0.002	Group 1	TBR04	0.997	0.003	Group 1	YFR07	0.992	0.008	Group 1
GQR28	0.995	0.005	Group 1	LSR28	0.993	0.008	Group 1	TBR05	0.994	0.006	Group 1	YFR08	0.996	0.004	Group 1
GQR29	0.665	0.335	Hybrid	LSR29	0.991	0.009	Group 1	TBR06	0.997	0.003	Group 1	YFR09	0.932	0.068	Group 1
GQR30	0.921	0.079	Group 1	LSR30	0.994	0.006	Group 1	TBR07	0.994	0.006	Group 1	YFR10	0.981	0.019	Group 1
HXR01	0.996	0.004	Group 1	MLZR01	0.994	0.006	Group 1	TBR08	0.991	0.009	Group 1	YFR11	0.982	0.019	Group 1
HXR02	0.992	0.008	Group 1	MLZR02	0.996	0.004	Group 1	TBR09	0.997	0.003	Group 1	YFR12	0.748	0.252	Hybrid
HXR03	0.962	0.038	Group 1	MLZR03	0.994	0.006	Group 1	TBR10	0.994	0.006	Group 1	YFR13	0.847	0.153	Group 1
HXR04	0.005	0.995	Group 2	MLZR04	0.994	0.006	Group 1	TBR11	0.996	0.004	Group 1	YFR14	0.995	0.005	Group 1
HXR05	0.124	0.876	Group 2	MLZR05	0.995	0.005	Group 1	TBR12	0.996	0.004	Group 1	YFR15	0.993	0.008	Group 1
HXR06	0.005	0.995	Group 2	MLZR06	0.994	0.006	Group 1	TBR13	0.995	0.005	Group 1	YFR16	0.979	0.021	Group 1
HXR07	0.009	0.991	Group 2	MLZR07	0.990	0.010	Group 1	TBR14	0.997	0.003	Group 1	YFR17	0.991	0.009	Group 1
HXR08	0.028	0.972	Group 2	MLZR08	0.996	0.004	Group 1	TBR15	0.985	0.015	Group 1	YFR18	0.979	0.021	Group 1
HXR09	0.002	0.998	Group 2	MLZR09	0.993	0.007	Group 1	TBR16	0.996	0.004	Group 1	YFR19	0.987	0.013	Group 1
HXR10	0.004	0.996	Group 2	MLZR10	0.992	0.008	Group 1	TBR17	0.997	0.003	Group 1	YFR20	0.982	0.018	Group 1

个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派
Individual	Group 1	Group 2	Group assignment	Individual	Group 1	Group 2	Group assignment	Individual	Group 1	Group 2	Group assignment	Individual	Group 1	Group 2	Group assignment
	(Q)	(Q)			(Q)	(Q)			(Q)	(Q)			(Q)	(Q)	
HXR11	0.009	0.991	Group 2	MLZR11	0.132	0.868	Group 2	TBR18	0.996	0.004	Group 1	YFR21	0.907	0.093	Group 1
HXR12	0.009	0.991	Group 2	MLZR12	0.988	0.012	Group 1	TBR19	0.826	0.174	Group 1	YFR22	0.993	0.007	Group 1
HXR13	0.016	0.984	Group 2	MLZR13	0.992	0.008	Group 1	TBR20	0.994	0.006	Group 1	YFR23	0.995	0.005	Group 1
HXR14	0.013	0.987	Group 2	MLZR14	0.994	0.007	Group 1	TBR21	0.997	0.003	Group 1	YFR24	0.973	0.027	Group 1
HXR15	0.004	0.996	Group 2	MLZR15	0.009	0.991	Group 2	TBR22	0.992	0.008	Group 1	YFR25	0.993	0.007	Group 1
HXR16	0.004	0.996	Group 2	MLZR16	0.003	0.997	Group 2	TBR23	0.995	0.005	Group 1	YFR26	0.895	0.105	Group 1
HXR17	0.091	0.909	Group 2	MLZR17	0.026	0.974	Group 2	TBR24	0.996	0.004	Group 1	YFR27	0.993	0.007	Group 1
HXR18	0.004	0.996	Group 2	MLZR18	0.989	0.011	Group 1	TBR25	0.988	0.012	Group 1	YFR28	0.986	0.014	Group 1
HXR19	0.996	0.005	Group 1	MLZR19	0.988	0.012	Group 1	TBR26	0.992	0.008	Group 1	YFR29	0.997	0.004	Group 1
HXR20	0.996	0.005	Group 1	MLZR20	0.996	0.004	Group 1	TBR27	0.993	0.007	Group 1	YFR30	0.996	0.004	Group 1
HXR21	0.014	0.987	Group 2	MLZR21	0.992	0.008	Group 1	TBR28	0.995	0.005	Group 1	YQR01	0.997	0.003	Group 1
HXR22	0.005	0.995	Group 2	MLZR22	0.987	0.013	Group 1	TBR29	0.993	0.008	Group 1	YQR02	0.997	0.003	Group 1
HXR23	0.011	0.989	Group 2	MLZR23	0.988	0.012	Group 1	TBR30	0.994	0.006	Group 1	YQR03	0.995	0.005	Group 1
HXR24	0.008	0.992	Group 2	MLZR24	0.086	0.914	Group 2	WAR01	0.995	0.005	Group 1	YQR04	0.996	0.004	Group 1
HXR25	0.011	0.989	Group 2	MLZR25	0.996	0.004	Group 1	WAR02	0.992	0.009	Group 1	YQR05	0.996	0.004	Group 1
HXR26	0.012	0.988	Group 2	MLZR26	0.993	0.007	Group 1	WAR03	0.980	0.020	Group 1	YQR06	0.997	0.004	Group 1
HXR27	0.004	0.996	Group 2	MLZR27	0.997	0.004	Group 1	WAR04	0.971	0.029	Group 1	YQR07	0.991	0.009	Group 1
HXR28	0.005	0.995	Group 2	MLZR28	0.983	0.017	Group 1	WAR05	0.972	0.028	Group 1	YQR08	0.995	0.006	Group 1
HXR29	0.174	0.827	Group 2	MLZR29	0.996	0.004	Group 1	WAR06	0.995	0.005	Group 1	YQR09	0.927	0.073	Group 1
HXR30	0.005	0.995	Group 2	MLZR30	0.990	0.010	Group 1	WAR07	0.996	0.004	Group 1	YQR10	0.988	0.013	Group 1
JCR01	0.996	0.004	Group 1	QCR01	0.990	0.010	Group 1	WAR08	0.994	0.006	Group 1	YQR11	0.997	0.003	Group 1
JCR02	0.994	0.006	Group 1	QCR02	0.750	0.250	Hybrid	WAR09	0.994	0.007	Group 1	YQR12	0.991	0.009	Group 1
JCR04	0.996	0.004	Group 1	QCR03	0.990	0.010	Group 1	WAR10	0.995	0.006	Group 1	YQR13	0.993	0.007	Group 1
JCR05	0.994	0.006	Group 1	QCR04	0.993	0.007	Group 1	WAR11	0.991	0.009	Group 1	YQR14	0.998	0.002	Group 1
JCR08	0.992	0.008	Group 1	QCR05	0.992	0.008	Group 1	WAR12	0.981	0.019	Group 1	YQR15	0.970	0.030	Group 1
JCR09	0.996	0.004	Group 1	QCR06	0.918	0.082	Group 1	WAR13	0.995	0.005	Group 1	YQR16	0.996	0.004	Group 1
JCR10	0.992	0.008	Group 1	QCR07	0.995	0.005	Group 1	WAR14	0.983	0.018	Group 1	YQR17	0.984	0.016	Group 1
JCR11	0.997	0.003	Group 1	QCR08	0.992	0.008	Group 1	WAR15	0.987	0.013	Group 1	YQR18	0.992	0.008	Group 1

齐海玲, 樊鹏振, 王跃华, 刘杰 (2023) 中国北方六省区胡桃的遗传多样性和群体结构. 生物多样性, 31, 23120. <https://www.biodiversity-science.net/CN/10.17520/biods.2023120>.

个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派	个体编号	分组 1	分组 2	分组指派
Individual	Group 1	Group 2	Group assignment	Individual	Group 1	Group 2	Group assignment	Individual	Group 1	Group 2	Group assignment	Individual	Group 1	Group 2	Group assignment
	(Q)	(Q)			(Q)	(Q)			(Q)	(Q)			(Q)	(Q)	
JCR12	0.995	0.005	Group 1	QCR09	0.992	0.008	Group 1	WAR16	0.996	0.004	Group 1	YQR19	0.996	0.005	Group 1
JCR13	0.996	0.004	Group 1	QCR10	0.996	0.004	Group 1	WAR17	0.990	0.011	Group 1	YQR20	0.993	0.007	Group 1
JCR14	0.943	0.057	Group 1	QCR11	0.995	0.005	Group 1	WAR18	0.993	0.007	Group 1	YQR21	0.989	0.011	Group 1
JCR15	0.997	0.003	Group 1	QCR12	0.976	0.024	Group 1	WAR19	0.906	0.094	Group 1	YQR22	0.989	0.011	Group 1
JCR16	0.995	0.005	Group 1	QCR13	0.996	0.004	Group 1	WAR20	0.991	0.009	Group 1	YQR23	0.983	0.017	Group 1
JCR17	0.951	0.049	Group 1	QCR14	0.984	0.016	Group 1	WAR21	0.995	0.005	Group 1	YQR24	0.993	0.007	Group 1
JCR18	0.996	0.004	Group 1	QCR15	0.864	0.136	Group 1	WAR22	0.996	0.004	Group 1	YQR25	0.997	0.003	Group 1
JCR19	0.996	0.004	Group 1	QCR16	0.997	0.003	Group 1	WAR23	0.992	0.008	Group 1	YQR26	0.984	0.016	Group 1
JCR20	0.996	0.004	Group 1	QCR17	0.906	0.094	Group 1	WAR24	0.910	0.090	Group 1	YQR27	0.995	0.005	Group 1
JCR21	0.992	0.008	Group 1	QCR18	0.992	0.008	Group 1	WAR25	0.989	0.011	Group 1	YQR28	0.991	0.009	Group 1
JCR22	0.994	0.007	Group 1	QCR19	0.997	0.003	Group 1	WAR26	0.996	0.004	Group 1	YQR29	0.994	0.007	Group 1
JCR23	0.997	0.003	Group 1	QCR20	0.995	0.005	Group 1	WAR27	0.983	0.017	Group 1	YQR30	0.992	0.008	Group 1
JCR24	0.991	0.009	Group 1	QCR21	0.995	0.005	Group 1	WAR28	0.997	0.003	Group 1	—	—	—	—