

Supplementary Materials

Table S1. An in-house repertoire of 86 traditional/ancient Shu music

Number	Music sample	Subarea in Shu area	Style	Genre	Author	Time (min)
1	Willow and willow	Weiyuan county	folk song	lyric	unknown	3:05
2	Ten flowers blooming	Weiyuan county	folk song	affectionate	unknown	2:10
3	Grape picking	Yibin city	divine song	cheerful	unknown	2:49
4	Boy whistles to cross the ditch	Yibin city	divine song	cheerful	unknown	2:48
5	Pouch embroidering	Yibin city	divine song	lyric	unknown	2:53
6	When will the pagoda tree blossom	Yibin city	divine song	sonorous	Zurong Yu	2:10
7	Mianzhu love song	Mianzhu city	folk song	affectionate	unknown	3:28
8	I came up the mountain with my mover	Mianzhu city	folk song	affectionate	unknown	3:15
9	See lover off song	Mianzhu city	minore	affectionate	unknown	3:18
10	Nanmu carrying pole shaking	Luzhou city	minore	affectionate	unknown	3:29
11	Climbing peas	Fushun county	minore	affectionate	unknown	3:03
12	Airing clothes	Langzhong county	folk song	lyric	unknown	3:19
13	Mowing song	Pujiang county	folk song	cheerful	unknown	3:15
14	A diligent and cheerful Person loved by a girl	An county	folk song	lyric	unknown	3:18
15	Follow the sun all the way	Baqu county	folk song	lyric	unknown	3:00
16	The sun is shining overhead	Daba mountain zone	minore	lyric	unknown	3:03
17	The sun sets in Xiya	Wanyuan county	folk song	lyric	unknown	2:50
18	Tell me to sing, I won't push	Tomgjiang county	folk song	lyric	unknown	2:58
19	The moon slants westward	Dazhu county	folk song	lyric	unknown	2:26
20	The small boat is empty at both ends	Wanyuan county	folk song	lyric	unknown	2:19
21	The moon sets in the west	North Sichuan	folk song	lyric	unknown	2:48

22	Ten fan tuning	North Sichuan	folk song	lyric	unknown	2:40
23	Kangding love song	Kangding county	love song	lyric	Wu Wenji/Jiang Dingxian	2:53
24	The snow on the mountain is like a flower	Mao county	Tibetan folk song	lyric	unknown	3:48
25	Cows in the land of fortune	Shiqu county	Tibetan folk song	lyric	unknown	3:42
26	My hometown is by the Yalong river	Shiqu county	Tibetan folk song	cheerful	unknown	3:13
27	You are the red coral	Seda county	Tibetan folk song	lyric	unknown	3:17
28	Please lend me your wings	Seda county	Tibetan folk song	lyric	unknown	3:02
29	I'm familiar with it, it's my own brother	Danba county	Tibetan folk song	lyric	unknown	3:36
30	Where does Guozhuang Jump from	Danba county	Tibetan folk song	lyric	unknown	3:34
31	Meet together	Jiulong county	Tibetan folk song	lyric	unknown	3:07
32	Life used to be very difficult	Liangshan city	Yi jew's harp	lyric	unknown	3:06
33	Cannot be divided	Liangshan city	Yi jew's harp	lyric	unknown	2:55
34	Where is the girl? Where am I	Liangshan city	Yi jew's harp	lyric	unknown	2:16
35	Picking pears	Jinyang county	Yi folk song	lyric	unknown	2:35
36	Green and lush mountains	Puge county	Yi folk song	lyric	unknown	2:19
37	Hi, naginara	Mao county	Yi folk song	lyric	Dong Fangquan	2:13
38	Narra	YWenchuan county	Qiang folk song	lyric	unknown	2:05
39	That nagging	Wenchuan county	Qiang folk song	lyric	unknown	2:03
40	Tiaoxi minore	Wenchuan county	Qiang folk song	lyric	unknown	2:01
41	Picking flowers	Nanping county	minore	cheerful	unknown	3:12
42	Make a fuss at five o'clock	Nanping county	minore	lyric	unknown	3:05
43	Enjoy the lantern festival	Nanping county	minore	lyric	unknown	3:07
44	A military song	Nanping county	minore	hypertonic	unknown	3:01
45	Military song	Nanping county	minore	hypertonic	unknown	2:58
46	Persuade new sister	Guangan city	antiphonal song	narrative	unknown	2:45
47	Counting flowers	Guangan city	antiphonal song	narrative	unknown	2:32

48	To flower	Guangan city	antiphonal song	narrative	unknown	2:20
49	Embroidered pillow	Guangan city	antiphonal song	narrative	unknown	2:28
50	Pairing song	Guangan city	antiphonal song	narrative	unknown	2:17
51	Pruning plum blossoms	Guangan city	antiphonal song	narrative	unknown	2:08
52	Cursing matchmakers	Guangan city	antiphonal song	narrative	unknown	2:10
53	Carrying a thousand pounds across Ba mountain	Daba mountain zone	paddy song	hypertonic	unknown	2:25
54	Heavy back makes it difficult to climb the slope	Daba mountain zone	paddy song	hypertonic	unknown	2:34
55	It's difficult to climb uphill with your back on your back	Daba mountain zone	paddy song	hypertonic	unknown	2:39
56	A cool breeze is coming	Eastern Sichuan	paddy song	hypertonic	unknown	2:48
57	Pairs of rice paddies for field harvesting	Eastern Sichuan	paddy song	hypertonic	unknown	2:55
58	Lazy turnover	Pingshan county	paddy song	lyric	unknown	2:00
59	Happy life, sweet and savory	Eastern Sichuan	Tu paddy song	lyric	unknown	3:00
60	Bean sprouts, sallion and garlic leaves	Baqu county	paddy song	hypertonic	unknown	2:03
61	Chasing wild cats	Naxi zone	rolling board	hypertonic	unknown	1:58
62	Emei restaurant	Emeishan county	folk song	hypertonic	Liang Shangquan/Shi Xin	2:52
63	I haven't been here for a long time	The whole Sichuan province	folk song	cheerful	Wang Jifu/Mao Di	3:40
64	Froggy	The whole Sichuan province	children rhyme	cheerful	unknown	1:40
65	Cattle herding song	The whole Sichuan province	children rhyme	cheerful	unknown	2:08
66	Shepherd song	The whole Sichuan province	children rhyme	cheerful	unknown	2:00
67	Pony running	The whole Sichuan province	children rhyme	cheerful	unknown	2:06
68	Step by step tight	Anyue county	chant	hypertonic	unknown	2:30
69	Three sharp sounds	Anyue county	chant	hypertonic	unknown	2:34
70	Top-ten generals	Zigong city	chant	hypertonic	unknown	2:25
71	December visit	Zigong city	chant	hypertonic	unknown	3:01
72	New Year comes in January	Zigong city	chant	hypertonic	unknown	3:08
73	Elegiac song	Zigong city	chant	hypertonic	unknown	3:03

74	Pinglu chant	Chengdu city	chant	hypertonic	unknown	2:15
75	Miss Yao is very different	Linshui county	chant	hypertonic	unknown	2:04
76	We're here you're not here	Tongjiang county	chant	hypertonic	unknown	2:30
77	Spring arrives at Longmen mountain	The whole Sichuan province	voiceless sound	lyric	unknown	6:06
78	Shuyun fengliu	The whole Sichuan province	voiceless sound	lyric	unknown	2:53
79	Little kite flying	The whole Sichuan province	voiceless sound	lyric	unknown	2:44
80	The sun rises with joy	Eastern Sichuan	minore	cheerful	Jin Gu	1:33
81	Lialing river tune	Jialing zone	folk song	hypertonic	Huang Huwei	7:03
82	Herding cows	Da county	folk song	hypertonic	Dan Zhaoyi	3:11
83	Morning song	Pujiang county	folk song	lyric	Huang Huwei	1:05
84	Lyric ballad	Jiangyou county	folk song	lyric	Huang Huwei	1:30
85	Spring suburbs of rongcheng	Chengdu city	folk song	cheerful	Huang Huwei	3:15
86	Aba night club	Mao county	folk song	cheerful	Huang Huwei	5:39

Table S2. All the 1548 *rHR* values in systematic subject-to-sample response (SSTSR) profile

Music sample	Testee subject																		<i>mean</i>	<i>s.e.</i>
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18		
Willow and willow	0.094	0.138	0.132	0.050	0.054	0.018	0.115	0.059	0.041	0.058	0.024	0.098	0.063	0.116	-0.017	0.040	0.094	0.147	0.074	0.044
Ten flowers blooming	0.113	0.094	0.066	0.023	0.018	0.079	0.033	0.019	0.127	0.040	0.072	0.072	0.058	0.071	0.077	-0.013	0.061	0.190	0.067	0.045
Grape picking	0.041	0.146	0.015	0.065	0.099	0.040	0.059	0.051	0.075	0.074	0.088	0.054	0.052	0.134	0.119	0.013	0.076	0.143	0.075	0.039
Boy whistles to cross the ditch	0.087	0.018	0.141	0.044	0.190	0.099	0.102	0.157	0.050	0.029	0.055	0.134	0.142	0.044	0.051	0.159	0.001	0.052	0.086	0.054
Pouch embroidering	0.030	0.101	0.094	0.162	-0.003	0.036	0.094	0.078	0.065	0.102	0.039	0.057	0.060	0.040	0.183	0.069	0.149	0.108	0.081	0.047
When will the pagoda tree blossom	0.025	-0.038	0.056	0.089	0.072	0.101	0.152	0.107	0.148	0.141	0.119	0.122	0.073	0.033	0.102	0.039	-0.006	0.046	0.077	0.052
Mianzhu love song	0.099	0.024	0.083	0.110	0.081	0.029	0.079	0.076	0.138	0.068	0.060	0.045	0.110	0.070	0.058	0.086	0.118	0.051	0.077	0.030
I came up the mountain with my mover	-0.055	0.007	0.101	0.114	0.111	0.112	0.017	0.124	0.070	0.100	0.026	0.076	0.158	0.078	0.082	0.038	0.028	-0.024	0.065	0.055
See lover off song	0.182	0.004	0.143	0.041	0.107	0.136	0.088	-0.001	0.041	0.118	0.063	0.233	0.100	0.099	0.138	0.033	-0.038	0.027	0.084	0.067
Nanmu carrying pole shaking	0.112	0.044	0.085	0.094	0.089	0.101	0.115	0.143	0.031	0.132	0.088	0.049	0.050	0.113	0.115	0.094	0.143	0.006	0.089	0.038
Climbing peas	0.088	0.054	0.031	0.031	0.106	0.031	0.147	0.073	-0.005	0.157	0.033	0.189	0.085	0.113	0.155	0.116	0.076	0.174	0.092	0.055
Airing clothes	0.028	0.045	0.121	0.097	0.137	0.118	0.072	0.028	0.121	0.035	0.037	0.151	0.137	0.061	0.043	0.095	0.096	0.117	0.086	0.041
Mowing song	0.165	0.049	0.163	0.053	0.093	0.094	0.106	0.109	0.123	0.145	0.122	0.106	0.091	0.010	0.123	0.118	0.045	0.067	0.099	0.040
A diligent and cheerful Person loved by a girl	0.138	0.117	0.080	0.024	0.118	0.078	0.094	0.114	0.146	0.092	0.079	0.102	0.112	0.015	-0.006	0.080	0.109	0.032	0.085	0.042
Follow the sun all the way	0.026	0.048	0.116	0.096	0.171	0.033	0.160	0.076	0.094	0.094	0.137	0.106	0.074	0.121	0.082	0.147	0.092	0.012	0.094	0.044
The sun is shining overhead	0.077	0.069	0.077	0.123	0.085	0.042	0.010	0.075	0.000	0.077	0.087	0.100	0.159	0.045	0.070	0.072	0.033	-0.038	0.065	0.044
The sun sets in Xiya	0.019	0.103	0.170	0.032	0.105	0.004	0.067	0.159	0.115	0.069	0.103	0.118	0.108	0.084	0.070	0.169	0.085	0.129	0.095	0.046
Tell me to sing, I won't push	0.043	0.034	0.095	0.144	0.123	0.041	0.103	0.066	0.043	0.060	0.117	0.065	0.102	0.045	-0.020	0.052	0.067	0.062	0.069	0.038
The moon slants westward	0.050	0.167	0.112	0.077	0.066	0.158	0.083	0.088	0.121	0.171	0.090	0.060	0.026	0.063	0.054	0.046	0.047	0.093	0.087	0.042
The small boat is empty at both ends	0.139	0.114	0.128	0.118	0.067	0.084	0.152	0.040	0.061	0.093	0.052	0.152	0.102	0.150	0.055	0.190	-0.002	0.202	0.105	0.053
The moon sets in the west	0.199	0.151	-0.010	0.100	0.019	0.069	0.113	-0.058	0.062	0.073	0.060	0.169	0.126	0.016	0.147	-0.011	0.119	0.025	0.076	0.068
Ten fan tuning	0.115	0.060	0.009	0.000	0.073	0.061	0.038	0.079	0.029	0.061	0.107	0.148	0.087	0.148	0.111	0.051	0.134	0.092	0.078	0.043
Kangding love song	0.090	0.017	0.184	0.126	0.080	0.104	-0.037	0.140	-0.042	0.148	0.029	0.000	0.099	0.087	0.108	0.164	0.067	0.096	0.081	0.063

Pairing song	0.107	0.158	0.046	0.140	0.079	0.140	0.089	0.173	-0.049	0.008	0.072	0.071	0.137	-0.044	0.002	0.081	0.067	0.082	0.076	0.063
Pruning plum blossoms	0.069	-0.014	0.133	0.113	0.054	0.033	0.142	0.115	0.041	0.066	0.055	0.152	0.094	0.092	0.107	0.000	0.080	0.108	0.080	0.045
Cursing matchmakers	0.120	0.058	0.132	0.072	0.102	0.096	0.090	0.078	0.183	0.095	0.045	0.028	0.092	0.111	0.070	0.010	0.126	0.086	0.089	0.039
Carrying a thousand pounds across Ba mountain	0.092	0.106	0.074	0.086	0.041	0.133	0.115	0.135	0.116	0.035	0.063	0.014	0.100	0.061	0.059	0.012	-0.008	0.019	0.070	0.043
Heavy back makes it difficult to climb the slope	0.105	0.053	0.107	0.097	0.014	0.076	0.075	0.031	0.079	0.128	0.139	0.086	0.105	0.001	0.082	0.090	0.117	0.128	0.084	0.038
It's difficult to climb uphill with your back on your back	0.082	0.022	0.072	0.054	0.049	0.151	0.092	0.141	0.120	0.063	0.193	0.020	0.090	0.114	0.138	0.066	-0.009	0.036	0.083	0.051
A cool breeze is coming	0.113	0.107	0.041	0.045	0.044	0.003	0.077	0.102	0.080	0.162	0.098	0.031	0.065	0.131	0.029	0.085	0.022	0.096	0.074	0.041
Pairs of rice paddies for field harvesting	0.039	0.063	0.101	0.114	0.175	0.057	0.104	0.067	0.065	0.072	0.168	0.099	0.145	0.055	-0.012	0.149	0.066	0.137	0.092	0.048
Lazy turnover	0.086	0.089	0.113	0.075	0.127	-0.005	0.108	0.076	0.115	0.032	0.015	0.125	-0.018	0.061	-0.018	0.098	0.204	0.159	0.080	0.059
Happy life, sweet and savory	0.051	0.103	0.071	0.071	0.086	0.130	0.022	0.116	0.066	0.065	0.079	0.126	0.002	0.062	0.152	0.100	0.040	0.141	0.082	0.040
Bean sprouts, sallion and garlic leaves	0.107	0.078	0.101	0.069	0.080	0.053	0.196	0.013	-0.040	0.079	0.159	0.189	-0.023	0.089	0.101	0.091	0.070	0.090	0.083	0.060
Chasing wild cats	0.090	-0.029	0.038	0.111	0.098	0.079	-0.019	0.085	0.074	0.110	0.189	0.099	0.009	0.077	0.097	0.083	0.070	0.080	0.075	0.049
Emei restaurant	0.051	0.115	0.133	0.042	0.056	0.142	0.040	0.063	0.098	0.112	0.065	0.109	0.157	0.052	0.042	-0.014	0.031	0.069	0.076	0.044
I haven't been here for a long time	0.105	0.115	0.087	0.166	0.096	0.047	0.091	0.020	0.086	0.021	0.060	0.085	0.062	0.011	0.120	0.130	0.091	0.091	0.082	0.039
Froggy	0.049	0.132	0.088	0.172	0.142	0.106	0.111	0.105	0.124	0.078	0.119	0.225	-0.010	0.016	0.069	0.108	0.033	0.104	0.098	0.054
Cattle herding song	0.077	0.066	0.061	0.072	0.053	0.133	0.063	0.133	0.072	0.083	-0.023	0.086	0.076	0.038	0.233	0.130	0.001	0.003	0.075	0.056
Shepherd song	0.132	0.155	0.034	-0.038	0.167	0.068	0.095	0.054	0.079	0.057	0.086	0.060	0.194	0.109	0.086	0.072	0.059	0.062	0.085	0.052
Pony running	0.061	0.073	-0.002	0.085	0.107	0.052	0.015	0.110	0.163	0.161	0.152	0.027	0.177	0.049	0.222	0.061	0.045	0.109	0.093	0.060
Step by step tight	0.111	0.020	0.103	0.098	0.012	0.098	0.147	0.086	0.114	0.066	0.069	0.105	0.142	0.046	0.112	0.103	0.037	0.069	0.085	0.037
Three sharp sounds	0.060	0.103	0.178	0.120	0.088	0.076	0.115	0.034	0.031	0.060	0.118	0.119	-0.046	0.064	0.073	-0.021	0.118	0.199	0.083	0.059
Top-ten generals	0.083	0.161	0.051	0.104	0.115	0.049	0.029	0.142	0.162	0.124	0.051	0.085	0.068	0.047	0.119	0.131	0.103	0.039	0.092	0.041
December visit	0.092	0.120	0.028	0.103	0.024	0.000	-0.048	0.081	0.120	0.105	0.063	0.113	0.053	0.006	0.040	0.114	0.105	0.061	0.066	0.048
New Year comes in January	0.164	0.152	0.056	0.088	0.134	0.106	0.031	0.119	0.075	0.072	0.103	0.137	0.058	0.138	0.023	0.107	0.041	0.086	0.094	0.041
Elegiac song	0.110	0.127	0.046	-0.012	0.073	0.123	0.130	0.064	0.047	0.139	0.100	0.110	0.165	0.142	0.060	0.078	0.035	0.012	0.086	0.048
Pinglu chant	0.168	0.127	0.055	0.151	0.013	0.026	0.122	0.139	0.058	-0.008	0.073	0.130	0.106	0.034	0.069	0.013	0.024	0.067	0.076	0.052
Miss Yao is very different	0.108	0.077	0.090	0.058	0.087	0.145	0.102	0.017	0.008	0.156	0.089	0.167	0.112	0.098	0.069	0.033	-0.011	0.016	0.079	0.050

We're here you're not here	0.038	0.103	0.070	0.055	0.122	0.128	0.136	0.096	0.056	0.108	0.063	0.099	0.093	0.059	0.055	-0.034	0.108	-0.013	0.075	0.044
Spring arrives at Longmen mountain	0.126	0.124	0.079	0.029	0.164	0.096	0.057	0.070	-0.010	0.058	0.116	0.069	0.051	0.106	0.133	0.118	0.069	0.041	0.083	0.042
Shuyun fengliu	-0.017	0.068	0.117	0.015	0.078	0.132	0.053	0.066	0.155	0.061	0.164	-0.047	0.007	0.005	0.010	0.094	0.173	0.021	0.064	0.063
Little kite flying	0.078	0.082	0.052	0.005	0.130	0.066	0.086	0.066	0.090	0.016	0.068	0.015	0.128	0.105	0.112	0.090	0.096	0.044	0.074	0.036
The sun rises with joy	0.046	0.087	0.063	0.027	0.161	0.054	0.049	0.070	0.131	0.097	0.145	0.074	0.073	0.107	0.114	0.108	0.006	0.014	0.079	0.042
Lialing river tune	0.145	0.033	0.175	0.094	0.039	0.042	0.049	0.117	0.012	0.102	0.101	0.060	0.084	0.082	0.053	0.147	0.010	0.059	0.078	0.046
Herding cows	0.113	0.087	0.096	0.095	0.023	0.039	0.093	0.043	0.055	0.083	0.086	0.106	0.056	0.054	0.079	0.038	0.133	0.066	0.075	0.029
Morning song	0.032	0.100	0.104	0.029	0.049	0.070	0.121	0.013	0.114	0.071	0.044	0.106	0.065	-0.019	0.028	0.160	0.161	0.115	0.076	0.049
Lyric ballad	0.089	0.035	0.059	0.069	0.137	0.058	0.053	0.023	-0.009	0.062	0.075	-0.029	0.085	0.099	0.046	0.035	0.046	0.088	0.057	0.038
Spring suburbs of rongcheng	0.145	0.083	0.068	0.132	0.139	0.118	0.176	0.043	0.170	-0.057	0.024	0.008	0.039	0.073	0.157	0.078	0.109	0.101	0.089	0.060
Aba night club	0.072	0.013	0.030	0.142	0.053	0.064	0.111	0.069	0.098	0.175	0.096	0.046	0.174	0.099	0.087	0.030	0.112	0.022	0.083	0.047