

**Linkage Disequilibrium and Association Mapping
of Fibre Quality Traits in Elite Asiatic Cotton
(*Gossypium arboreum*) Germplasm Populations**

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Electronic Supplementary Material (ESM)

Table S1. The genotype, selected for the present work

No.	Accession	Population group	No.	Accession	Population group
1	CISA-6-187		49	AKA-0106	
2	CISA-6-123		50	CINA-369	
3	CISA-6-209		51	CAN-1006	
4	CISA-6-214		52	HD-485	
5	CISA-6-256		53	GAM-150	
6	CISA-6-295		54	JTAPTI-007	
7	CISA-6-350		55	CCA-8	
8	CISA-614		56	LD-694	
9	CISA-6		57	RG-8	Population group 1
10	CISA-7		58	HD-123	
11	CISA-8		59	PA-255	
12	CISA-9		60	LD-987	
13	CISA-10		61	RG-579	
14	CISA-294		62	LD-919	
15	CISA-64		63	LD-936	
16	CISA-310		64	LD-1010	
17	LD-327		65	RG-595	
18	LD-733		66	C- 1	
19	ARBAS-105		67	C- 2	
20	TKA-9102/03		68	C-3	
21	MDL-2617		69	C-4	
22	GBaV-107		70	C-5	Population group 2
23	PA-532		71	C-6	(Cernuum race)
24	PA-686	Population group 1	72	C-7	
25	RG-526	(Bengalense race)	73	C-8	
26	RG-540		74	C-9	
27	RG-541		75	C-10	
28	RG-514		76	Id-1	
29	FDK-118		77	Id-2	
30	TKA-9102		78	Id-3	Population group 3
31	KWP-902		79	Id-4	(Indicum race)
32	DLSA-17		80	Id-5	
33	DLSA-1005		81	S-1	
34	DLSA-1006		82	S-2	Population group 4
35	LD-960		83	S-3	(Soudanese race)
36	LD-909		84	S-4	
37	FDK-124		85	S-5	
38	PAIG-8/1		86	Sin-1	
39	DAS-802		87	Sin-2	
40	CCA-4		88	Sin-3	Population group 5
41	RAAS-931		89	Sin-4	(Sinense race)
42	GBaV-105		90	Sin-5	
43	GBaV-120		91	Bur-1	
44	ARBHA-0853		92	Bur-2	Population group 6
45	ARBAS-104		93	Bur-3	(Burmanicum race)
46	RAAS-36		94	Bur-4	
47	RAAS-8		95	Bur-5	
48	GAM-158				

Group I was collected from CICR, Sirsa, Haryana while for others collection was made from Genbank, CICR, Nagpur.

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Table S2. Microsatellite markers with map position and chromosomal location

No	Marker	Map position (cM)	Ch. Location	No.	Marker	Map position (cM)	Ch. Location
1	NAU-1067	0	1	51	MUSS-243	22	7
2	NAU-3911	16.9	1	52	BNL-1395	64.6	7
3	NAU-2083	29.7	1	53	BNL-1694	68.4	7
4	MUSS-422	39	1	54	BNL-1604	73	7
5	BNL-3580	49	1	55	BNL-1531	89	7
6	BNL-3888	57.4	1	56	NAU-2432	89.2	7
7	BNL-3090	61.8	1	57	NAU-2308	98.5	7
8	NAU-2095	88.7	1	58	NAU-3590	0	8
9	BNL-3424	0	2	59	NAU-3793	15.8	8
10	MUSS-73	0	2	60	BNL-3792	42.4	8
11	MUSS-599	7	2	61	BNL-3257	57	8
12	NAU-5383	9.4	2	62	BNL-1017	57.2	8
13	BNL-3971	59.2	2	63	NAU-2407	102.7	8
14	BNL-1897	74.9	2	64	NAU-920	128.8	8
15	BNL-1434	95.2	2	65	MUSS-189	0	9
16	NAU-5499	97.6	2	66	BNL-686	0	9
17	BNL-3259	0	3	67	BNL-1162	32.6	9
18	MUSS-207	0	3	68	BNL-1672	58.5	9
19	MUSS-192	17	3	69	NAU-2322	62.5	9
20	MUSS-172	26	3	70	NAU-3052	79.5	9
21	NAU-1070	51.8	3	71	NAU-1009	81.2	9
22	BNL-226	59.5	3	72	NAU-1046	123.1	9
23	NAU-1190	60	3	73	BNL-4053	130.7	9
24	BNL-3441	66.6	3	74	NAU-3467	0	10
25	BNL-2443	72.2	3	75	MUSS-68	12	10
26	NAU-1167	104.6	3	76	NAU-3454	37.5	10
27	NAU-3083	144.5	3	77	BNL-2530	40.5	10
28	NAU-2363	31.2	4	78	BNL-256	44	10
29	BNL-4047	44.4	4	79	BNL-2631	53.2	10
30	BNL-530	66.9	4	80	BNL-3895	60.4	10
31	NAU-3093	74.5	4	81	NAU-1182	77.1	10
32	BNL-4049	80.8	4	82	MUSS-123	0	11
33	BNL-2572	91.8	4	83	BNL-1231	0	11
34	NAU-2865	21	5	84	BNL-1066	34.5	11
35	NAU-2000	30.2	5	85	NAU-1162	100.9	11
36	MUSS-99	32	5	86	BNL-1404	113	11
37	BNL-3995	44.6	5	87	BNL-3147	121.9	11
38	BNL-3992	109.2	5	88	NAU-3377	164.5	11
39	BNL-542	125.8	5	89	MUSS-26	0	12
40	BNL-3241	171.4	5	90	NAU-3426	3.7	12
41	NAU-934	199.2	5	91	NAU-4047	10.6	12
42	BNL-3359	23	6	92	BNL-3261	40.6	12
43	BNL-2569	48	6	93	NAU-1278	68.6	12
44	BNL-1440	87.6	6	94	BNL-1673	82.7	12
45	NAU-1151	66.6	6	95	BNL-1679	95.4	12
46	NAU-2580	104.7	6	96	NAU-2038	19.3	13
47	NAU-3206	120.3	6	97	NAU-1141	33.8	13
48	NAU-3427	140.4	6	98	BNL-2652	71.1	13
49	NAU-933	0	7	99	BNL-4029	81.9	13
50	NAU-4030	13	7	100	BNL-1707	134.8	13