

Table S1. Informations of AS patients and control subjects in our study

Exprimental subjects (AS)								
Patient	Age (years old)	HLA-B27	AS duration (years)	BASFI	CRP (mg/L)	ESR (mm/H)	mSASSS	Spinal surgery
1	60s	positive	28	4.7	1.71	10	63	Yes
2	40s	positive	20	8.2	10.60	9	68	Yes
3	50s	positive	30	5	3.39	3	61	Yes
4	50s	positive	22	7	2.80	8	67	Yes
5	40s	positive	25	6.7	4.62	12	67	Yes

BASFI - Bath Ankylosing Spondylitis Functional Index; **mSASSS** - modified Stoke Ankylosing Spondylitis Spinal Score.

Control subjects (non-AS spinal trauma patients)						
Patient	Age (years old)	HLA-B27	Causes of spinal trauma	Clinical diagnosis	Cinical symptoms	Spinal surgery
1	50s	negative	Accident	Compression fracture with dislocation	Low back pain	Yes
2	40s	negative	Accident	Burst fracture with dislocation	Low back pain with Incomplete paralysis	Yes
3	50s	negative	Accident	Burst fracture with dislocation	Low back pain	Yes