

**S15 Table.** Clinicopathological characteristics of the breast cancer patients

	Total (n=417)	LRRK2 IHC		p-value
		Outlier (n=10)	Others (n=407)	
Age (yr)				
Median (range)		51 (26-65)	46 (23-80)	
≥ 45	52	7	45	< 0.001
< 45	365	3	362	
Differentiation				
Well differentiated	35	1	34	0.983
Moderately differentiated	254	6	248	
Poorly differentiated	128	3	125	
Stage				
I, II	296	8	288	0.731
III, IV	121	2	119	
Estrogen receptor				
Positive	258	3	255	0.048
Negative	159	7	152	
Progesterone receptor				
Positive	192	3	189	0.353
Negative	225	7	218	
HER2				
Positive	251	3	248	0.097
Negative	166	7	159	