**File S1. CircRNA identification results.**

**File S2. CircRNA coding potential prediction.**

**File S3. Functional enrichment analysis of differentially derived circRNA genes.**

**File S4. List of differentially expressed circRNAs.**

**File S5. The original composition data of Figure 5 and Figure 9.**

**File S6. KEGG pathway analysis on the host genes of reversely expressed circRNAs between SCC and ADC.**

**File S7. KEGG pathway analysis on the host genes of circRNAs from the three intrinsic paired groups.**

**File S8. Target location analysis of the key candidate circRNAs and microRNAs.**

**File S9. KEGG pathway analysis of the target genes of miRNAs irrelevant to ubiquitin mediated proteolysis pathway.**