Table S1 Abbreviations in this article

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| Abbreviation | Full Name |
| RNA | ribonucleic acid |
| lncRNA | long non-coding RNA |
| circRNA | circular RNA |
| miRNA | micro RNA |
| ceRNA | competitive endogenous RNA |
| DEG | differentially expressed gene |
| GO | Gene Ontology |
| KEGG | Kyoto Encyclopedia of Genes and Genomes |
| DAVID | The Database for Annotation, Visualization and Integrated Discovery |
| RI | resistance index |
| IC50 | half inhibitory concentration |
| qRT-PCR | quantitative reverse transcription polymerase chain reaction |
| SD | standard deviation |
| EMT | epithelial-mesenchymal transition |
| ECM | extracellular matrix |
| CAF | cancer-associated fibroblast |
| MMP | matrix metalloproteinase |
| APP | beta-amyloid precursor protein |
| NPC | nasopharyngeal cancer |
| RCC | renal cell cancer |
| HCC | hepatocellular cancer |