

Figure S1. Top 10 canonical pathways of the differentially expressed miRNAs and mRNAs. The graph summarizes the signaling pathways that were significantly enriched by Fisher's exact test in 16 upregulated microRNAs with 516 downregulated mRNAs. Activated and suppressed pathways are represented with red and blue bars, respectively.

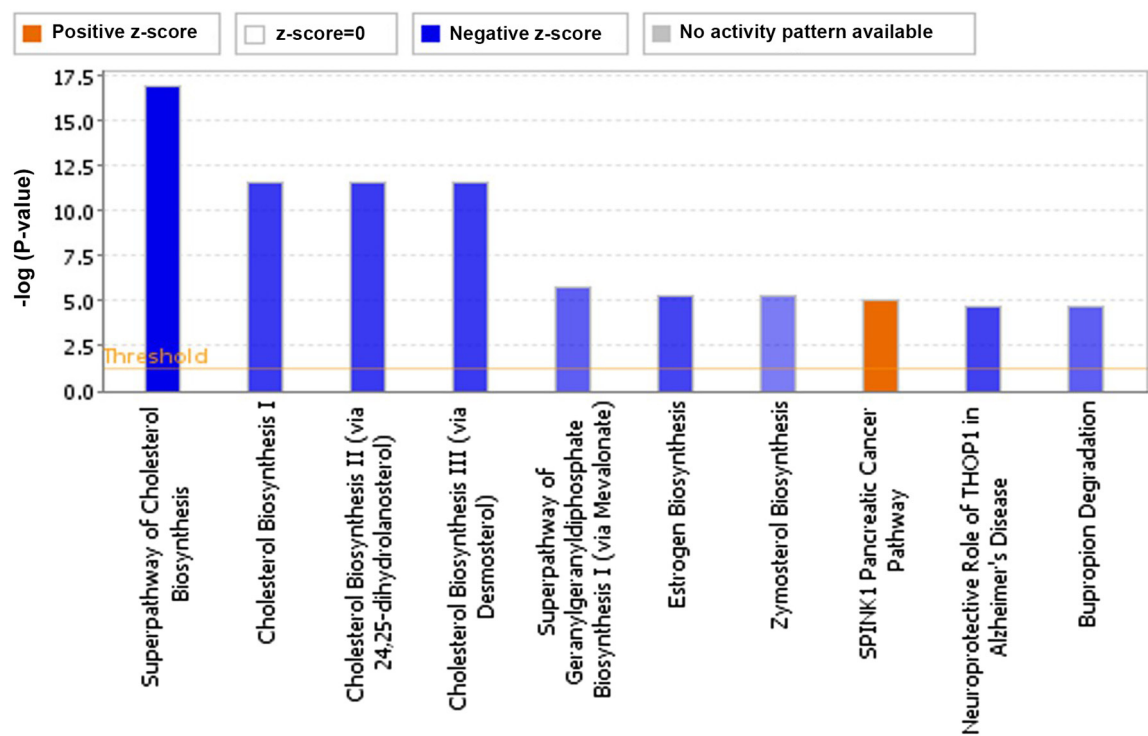


Figure S2. Top 10 canonical pathways of the differentially expressed microRNAs and mRNAs. The graph summarizes the signaling pathways that were significantly enriched by Fisher's exact test in 29 downregulated miRNAs with 194 upregulated mRNAs. Activated and suppressed pathways are represented with red and blue bars, respectively.

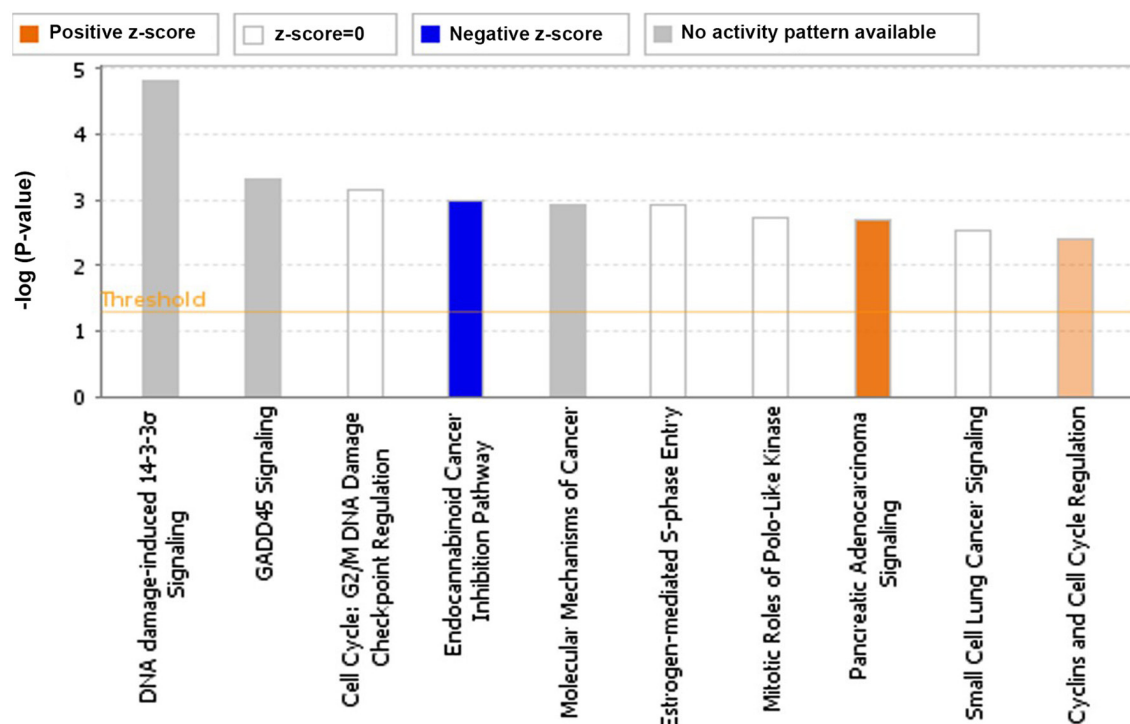


Table SI. Top 16 upregulated miRs in the sebaceous gland carcinoma samples.

| miR             | Gene ID     | Log fold change |
|-----------------|-------------|-----------------|
| hsa-miR-1269a   | MI0006406_1 | 5.69            |
| hsa-miR-1246    | MI0006381_1 | 5.25            |
| hsa-miR-577     | MI0003584_1 | 3.68            |
| hsa-miR-187-3p  | MI0000274_1 | 3.23            |
| hsa-miR-151b    | MI0003772_1 | 3.10            |
| hsa-miR-4488    | MI0016849_1 | 3.06            |
| hsa-miR-760     | MI0005567_1 | 2.87            |
| hsa-miR-380-5p  | MI0000788_1 | 2.66            |
| hsa-miR-873-5p  | MI0005564_2 | 2.53            |
| hsa-miR-629-5p  | MI0003643_2 | 2.39            |
| hsa-miR-370-5p  | MI0000778_1 | 2.16            |
| hsa-miR-130a-3p | MI0000448_2 | 2.03            |
| hsa-miR-151a-5p | MI0000809_2 | 1.97            |
| hsa-miR-939-5p  | MI0005761_2 | 1.80            |
| hsa-miR-151a-3p | MI0000809_1 | 1.46            |
| hsa-miR-148b-5p | MI0000811_1 | 1.18            |
| miR, microRNA.  |             |                 |

Table SII. Top 29 downregulated miRs in the sebaceous gland carcinoma samples.

| miR              | Gene ID     | Log fold change |
|------------------|-------------|-----------------|
| hsa-miR-4423-3p  | MI0016760_2 | -2.72           |
| hsa-miR-182-3p   | MI0000272_1 | -2.66           |
| hsa-miR-4520a-3p | MI0016886_1 | -2.62           |
| hsa-miR-652-5p   | MI0003667_1 | -2.59           |
| hsa-miR-335-3p   | MI0000816_2 | -2.53           |
| hsa-miR-96-5p    | MI0000098_2 | -2.50           |
| hsa-miR-96-3p    | MI0000098_1 | -2.12           |
| hsa-miR-652-3p   | MI0003667_2 | -2.00           |
| hsa-miR-4520b-3p | MI0017358_2 | -1.93           |
| hsa-miR-181a-3p  | MI0000289_1 | -1.84           |
| hsa-miR-592      | MI0003604_1 | -1.79           |
| hsa-miR-146b-5p  | MI0003129_1 | -1.75           |
| hsa-miR-584-5p   | MI0003591_2 | -1.63           |
| hsa-miR-149-3p   | MI0000478_2 | -1.58           |
| hsa-miR-500b-3p  | MI0015903_2 | -1.57           |
| hsa-miR-4671-3p  | MI0017302_2 | -1.56           |
| hsa-miR-140-3p   | MI0000456_2 | -1.56           |
| hsa-miR-145-5p   | MI0000461_1 | -1.51           |
| hsa-miR-365a-3p  | MI0000767_2 | -1.50           |
| hsa-miR-365b-3p  | MI0000769_2 | -1.50           |
| hsa-miR-5091     | MI0017980_1 | -1.49           |
| hsa-miR-585-3p   | MI0003592_1 | -1.42           |
| hsa-miR-195-5p   | MI0000489_2 | -1.33           |
| hsa-miR-34a-5p   | MI0000268_2 | -1.31           |
| hsa-miR-6732-3p  | MI0022577_2 | -1.21           |
| hsa-miR-708-3p   | MI0005543_1 | -1.17           |
| hsa-miR-376c-3p  | MI0000776_2 | -1.07           |
| hsa-miR-193a-3p  | MI0000487_2 | -1.01           |
| hsa-miR-934      | MI0005756_1 | -1.01           |

miR, microRNA.