Figure S1 Downregulated genes. Presentation of different downregulated genes (marked in red) in TNF-α-(A), Relaxin-(B), MAPK-(C) and IL17-(D) signaling pathways in tumor samples of patients with MPM after platinum-based therapy presented within interaction networks from the Kyoto Encyclopedia of Gene and Genomes.

Figure S2 Upregulated genes. Presentation of different upregulated genes (marked in green) in AMPK-(A), mTOR-(B), Longevity regulating(C) and Wnt-(D) signaling pathways in tumor samples of patients with MPM after platinum-based therapy presented within interaction networks from the Kyoto Encyclopedia of Gene and Genomes.
| Gene Set                              | Enrichment Score | Normalized Enrichment Score | P value       | FDR          | Size | Leading Edge Num | Leading EdgeId | UserId  |
|--------------------------------------|------------------|-----------------------------|--------------|--------------|------|------------------|----------------|---------|
| TNF signaling pathway                | 0.62453388       | 2.03472978                  | 0            | 0.00641818   | 24   | 14               |                | CSF1    |
| Rheumatoid arthritis                 | 0.7953622        | 1.99147244                  | 0.01497575   | 0.00641818   | 24   | 14               |                | ICAM1   |
| IL-17 signaling pathway              | 0.62020339       | 1.93251228                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| Leishmaniasis                        | 0.69135566       | 1.82350312                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| Osteoclast differentiation           | 0.58229047       | 1.83940837                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| Parathyroid hormone synthesis, secretion and action | 0.57517922 | 1.76606671 | 0.00641818 | 0.00641818 | 24   | 14               |                | MAPK1   |
| MAPK signaling pathway               | 0.38339632       | 1.51300576                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| Th1 and Th2 cell differentiation     | 0.53222774       | 1.41582119                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| NOD–like receptor signaling pathway  | 0.52812711       | 1.44749671                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| Relaxin signaling pathway            | 0.40747761       | 1.42211469                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| ErbB signaling pathway               | -0.1408939       | -0.4631295                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| Endometrioid cancer                  | -0.1995341       | -0.5947989                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| mTOR signaling pathway               | -0.4997085       | -1.4996099                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| Hepatocellular carcinoma             | -0.4588698       | -1.4821795                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| AMPK signaling pathway               | -0.6094156       | -1.5758272                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| Endocytosis                          | -0.6051344       | -1.4262527                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| Breast cancer                        | -0.4187966       | -1.3702826                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| Wnt signaling pathway                | -0.3220384       | -1.3775742                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| Longevity regulating pathway         | -0.3984832       | -1.2540262                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |
| Glioma                               | -0.3970881       | -1.2450262                  | 0.00641818   | 0.00641818   | 24   | 14               |                | MAPK1   |