|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | UM | other melanomas | other tumors | other diseases  |
| PALMD | n/a | n/a | n/a | calcific aortic valve stenosis1-3 |
| ROBO1 | metastasis4 | reduce invasion5angiogenesis6 | Multiple myeloma7Bladder cancer8NSCLC9…… | Hirschsprung disease10Callosal Dysgenesis11cardiac fibrosis12…… |
| CNTN3 | n/a | n/a | renal cell carcinomas13glioblastoma multiforme14colorectal cancer15…… | neurodevelopmental delay16,17Male infertility18Acute aortic dissection19…… |
| DTWD1 | n/a | hypoxia20 | cell renal cell carcinoma21gastric cancer22 | bipolar disorder23 |
| ZNF667-AS1 | n/a | inhibit proliferation and invasion24 | bladder cancer25ovarian cancer26oral squamous cell carcinoma27…… | rheumatoid arthritis28spinal cord injury29 |
| KIRREL | n/a | prognosis30 | breast cancer31gastric cancer32pancreatic cancer33…… | mycoplasma pneumoniae34 |
| NQO1 | n/a | redox cyclemetabolizemetastasisapoptosis35 | colorectal cancer36gastric cancer37breast cancer38…… | acute kidney injury39spinal cord injury40Alzheimer's disease41…… |
| IGFBP2 | n/a | regulate PD-L1 expression42apoptosis43BRAF V600E resistance44 | glioma45colorectal cancer46osteosarcoma47…… | cardiometabolic dysfunction48obesity49diabetes50…… |
| PDLIM1 | n/a | n/a | ovarian cancer51glioma52chronic myelogenous leukaemia53…… | diabetic retinopathy54Cardiovascular Disease55Friedreich's Ataxia56…… |
| FMN1 | n/a | n/a | pancreatic cancer57colorectal cancer58 | Cenani-Lenz syndrome59Pseudoexfoliation syndrome60schizophrenia61…… |
| RAB2A | n/a | n/a | glioblastoma62bladder cancer63breast cancer64…… | osteoarthritis65autism and schizophrenia66Alzheimer's disease67…… |
| EMP3 | aggressiveness68 | n/a | lung cancer69glioma70acute myeloid leukemia71…… | keratoconus72 |
| FABP5 | prognosis73,74 | high expression75apoptosis76cisplatin sensitivity77 | lung adenocarcinoma78gastric cancer79breast cancer80…… | type 2 Diabetes Mellitus81psoriasis82cerebral ischemia-reperfusion83…… |
| PTP4A3 | liver metastasis84aggressiveness85,86 | stem cell differentiation87chemotherapy88migration89…… | multiple myeloma90ovarian cancer91colorectal cancer92…… | Alzheimer disease93 |
| CELF2 | prognosis94 | n/a | prostate cancer95nasopharyngeal carcinoma96breast cancer97…… | Alzheimer's disease98 |
| LINC00152 | n/a | n/a | glioma99acute myeloid leukemia100breast cancer101…… | rheumatoid arthritis102 |
| WARS | prognosis94progression103 | n/a | n/a | n/a |
| HTR2B | high expression104,105metastasis4 | n/a | colorectal cancer106pancreatic cancer107ovarian cancer108…… | atrial fibrillation109age-related osteoarthritis110constipation111…… |

Supplementary Table 1: Research status of differentially expressed genes in UM metastasis tissues. For more than 3 diseases, only the first three are displayed.

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