sGBJ - supplementary material

# Breast cancer

The following analysis is a complementary to the progression free survival in breast cancer. The main analysis is performed on all the patients, this additional analysis is stratified by cancer grade.

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| Kaplan-Meier curves of Breast cancer patients, stratified on the grade. Dotted lines represent the time to 50 % survival. |

Top ten pathways for the selected 70 pathways by grade, with their p-values after correction.

| Pathway | Grade | P-value | P-value (BH correction) |
| --- | --- | --- | --- |
| HSA00790\_FOLATE\_BIOSYNTHESIS | 1 | 0.0016405 | 0.3412253 |
| HSA01031\_GLYCAN\_STRUCTURES\_BIOSYNTHESIS\_2 | 1 | 0.0060491 | 1.0000000 |
| RASPATHWAY | 1 | 0.0118466 | 1.0000000 |
| ARFPATHWAY | 1 | 0.0169808 | 1.0000000 |
| P53PATHWAY | 1 | 0.0173282 | 1.0000000 |
| MTA3PATHWAY | 1 | 0.0188054 | 1.0000000 |
| PELP1PATHWAY | 1 | 0.0193764 | 1.0000000 |
| HSA01510\_NEURODEGENERATIVE\_DISEASES | 1 | 0.0195933 | 1.0000000 |
| MPRPATHWAY | 1 | 0.0201780 | 1.0000000 |
| WNT\_SIGNALING | 1 | 0.0205426 | 1.0000000 |
| HSA03050\_PROTEASOME | 2 | 0.0002997 | 0.0629473 |
| HSA00970\_AMINOACYL\_TRNA\_BIOSYNTHESIS | 2 | 0.0009983 | 0.2086548 |
| EGFR\_SMRTEPATHWAY | 2 | 0.0026145 | 0.5412103 |
| P53PATHWAY | 2 | 0.0028431 | 0.5856888 |
| HSA03030\_DNA\_POLYMERASE | 2 | 0.0049568 | 1.0000000 |
| HSA00950\_ALKALOID\_BIOSYNTHESIS\_I | 2 | 0.0092017 | 1.0000000 |
| VEGFPATHWAY | 2 | 0.0099447 | 1.0000000 |
| ATRBRCAPATHWAY | 2 | 0.0129833 | 1.0000000 |
| ARFPATHWAY | 2 | 0.0136410 | 1.0000000 |
| WNT\_SIGNALING | 2 | 0.0142909 | 1.0000000 |
| HSA00791\_ATRAZINE\_DEGRADATION | 3 | 0.0177371 | 1.0000000 |
| PELP1PATHWAY | 3 | 0.0181027 | 1.0000000 |
| HSA00770\_PANTOTHENATE\_AND\_COA\_BIOSYNTHESIS | 3 | 0.0283425 | 1.0000000 |
| HSA04310\_WNT\_SIGNALING\_PATHWAY | 3 | 0.0433067 | 1.0000000 |
| HSA00940\_PHENYLPROPANOID\_BIOSYNTHESIS | 3 | 0.0670914 | 1.0000000 |
| HSA00902\_MONOTERPENOID\_BIOSYNTHESIS | 3 | 0.0674274 | 1.0000000 |
| HSA01510\_NEURODEGENERATIVE\_DISEASES | 3 | 0.0877455 | 1.0000000 |
| PTENPATHWAY | 3 | 0.1105439 | 1.0000000 |
| HSA04150\_MTOR\_SIGNALING\_PATHWAY | 3 | 0.1167567 | 1.0000000 |
| AKTPATHWAY | 3 | 0.1364852 | 1.0000000 |