Supplementary material

The prognostic role of *miR-181a-5p* in advanced stages epithelial ovarian cancer patients enrolled inMITO16A/MaNGO-OV2 clinical trial



**Supplementary Fig. 1. Consort diagram.** The final number of patients analyzed in the study is reported. NATC: neo-adjuvant chemotherapy; IHC: immunohistochemistry.



**Supplementary Fig. 2. Expression levels of miR-181a-5p and Smad2 phosphorylation.** In Supplementary Fig. 1 are reported the percentages of normalized Cycle threshold (CT) distribution of miR-181a-5p (Panel A) and the percentages of P-Smad2 levels (Panel B). IQR: Interquartile Range; pSMAD: phosphorylated Smad2.



**Supplementary Fig. 3. Association between the expression profiles of miR-181a-5p with PFS and OS**. Effect of miR-181a-5p for PFS and OS estimate in the univariate (panel a) and multivariate (panel b) models. PFS: Progression-Free Survival OS: Overall Survival.

Supplementary Table 1. Raw CT data for control miRNAs and raw CT and normalized CT value for miR-181a-5p. For each patient out of the 271 analyzed (id\_pt) are reported the row CT values of control miRNAs (miR-181-5p, miR-16-5p and miR-24-3p) and the raw and normalized data for miR-181a-5p obtained by qRT-PCR experiments.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| id\_pt | cod\_sample | miR-24-3p | miR-16-5p | miR-191-5p | miR-181a-5p | miR-181a-5p (Norm) |
| 1 | 1 | 21.30 | 20.30 | 21.30 | 23.11 | 5 |
| 4 | 4 | 21.37 | 20.23 | 21.89 | 23.08 | 5.8 |
| 5 | 5 | 20.69 | 19.59 | 21.38 | 22.23 | 6.9 |
| 6 | 6 | 20.59 | 19.81 | 22.50 | 22.04 | 10.5 |
| 8 | 8 | 20.84 | 20.10 | 22.73 | 21.48 | 18.4 |
| 9 | 9 | 20.37 | 20.24 | 21.83 | 22.18 | 8.5 |
| 10 | 10 | 21.86 | 19.39 | 21.36 | 19.37 | 62 |
| 11 | 11 | 23.23 | 20.97 | 23.86 | 26.87 | 1.2 |
| 12 | 12 | 20.79 | 19.55 | 24.86 | 23.06 | 8.7 |
| 15 | 15 | 20.52 | 20.36 | 21.76 | 24.23 | 2.2 |
| 18 | 18 | 20.93 | 19.97 | 22.15 | 23.57 | 3.8 |
| 20 | 20 | 20.55 | 19.73 | 20.86 | 23.43 | 2.7 |
| 21 | 21 | 21.93 | 20.77 | 22.93 | 21.10 | 37.6 |
| 22 | 22 | 23.36 | 23.47 | 25.20 | 25.87 | 6 |
| 23 | 23 | 20.80 | 19.08 | 20.77 | 21.85 | 7.1 |
| 26 | 26 | 22.88 | 34.83 | 31.51 | 25.73 | 2.5 |
| 27 | 27 | 20.24 | 20.89 | 24.35 | 23.30 | 7.9 |
| 28 | 28 | 19.98 | 21.35 | 23.22 | 22.23 | 13.4 |
| 29 | 29 | 22.42 | 21.56 | 23.00 | 25.07 | 3.3 |
| 30 | 30 | 24.43 | 22.98 | 25.64 | 24.44 | 20.7 |
| 32 | 32 | 22.66 | 22.78 | 24.39 | 24.97 | 6.8 |
| 36 | 36 | 21.59 | 21.52 | 23.55 | 23.55 | 8.7 |
| 38 | 38 | 22.70 | 21.02 | 22.02 | 25.02 | 2.6 |
| 39 | 39 | 22.80 | 20.43 | 23.69 | 24.22 | 5.8 |
| 40 | 40 | 26.16 | 26.43 | 29.59 | 27.98 | 14.6 |
| 41 | 41 | 20.38 | 21.31 | 25.56 | 23.58 | 9.8 |
| 42 | 42 | 22.34 | 23.10 | 26.05 | 24.03 | 19.1 |
| 44 | 44 | 20.48 | 19.70 | 20.64 | 21.26 | 11.1 |
| 45 | 45 | 20.42 | 19.96 | 21.86 | 22.70 | 5.7 |
| 48 | 48 | 20.87 | 19.65 | 21.94 | 21.82 | 11 |
| 49 | 49 | 20.33 | 20.07 | 23.12 | 21.55 | 16.9 |
| 51 | 51 | 21.85 | 20.38 | 23.49 | 22.92 | 10.9 |
| 53 | 53 | 21.58 | 22.69 | 23.62 | 24.42 | 6.3 |
| 54 | 54 | 23.08 | 20.74 | 23.84 | 23.62 | 10.5 |
| 55 | 55 | 19.81 | 19.38 | 21.83 | 21.08 | 13.2 |
| 56 | 56 | 20.96 | 19.48 | 21.65 | 22.80 | 5.1 |
| 57 | 57 | 22.88 | 22.39 | 25.21 | 24.04 | 15 |
| 58 | 58 | 19.48 | 18.94 | 22.16 | 22.53 | 4.3 |
| 61 | 61 | 22.27 | 20.17 | 24.36 | 22.62 | 17.2 |
| 62 | 62 | 22.20 | 20.21 | 23.46 | 20.98 | 43.2 |
| 63 | 63 | 20.83 | 20.68 | 21.96 | 22.66 | 7.8 |
| 64 | 64 | 20.78 | 20.08 | 20.89 | 20.40 | 25 |
| 65 | 65 | 20.59 | 19.33 | 23.39 | 22.15 | 10.6 |
| 67 | 67 | 21.40 | 20.29 | 21.30 | 22.70 | 6.7 |
| 68 | 68 | 22.45 | 19.96 | 21.43 | 25.82 | 0.9 |
| 70 | 70 | 21.21 | 21.38 | 22.58 | 24.93 | 2.4 |
| 74 | 74 | 23.90 | 22.02 | 24.52 | 22.10 | 57.1 |
| 76 | 76 | 21.23 | 20.77 | 22.81 | 20.96 | 34.4 |
| 77 | 77 | 22.93 | 22.07 | 24.40 | 25.23 | 5.1 |
| 78 | 78 | 21.44 | 20.66 | 21.92 | 24.27 | 2.9 |
| 79 | 79 | 20.35 | Undetermined | Undetermined | 21.43 | 8.4 |
| 80 | 80 | 20.98 | 19.65 | 22.25 | 21.33 | 17 |
| 81 | 81 | 21.43 | 19.90 | 22.03 | 21.96 | 12.2 |
| 82 | 82 | 22.07 | 19.95 | 21.29 | 22.14 | 10.7 |
| 83 | 83 | 20.58 | 20.30 | 22.86 | 22.36 | 10.1 |
| 84 | 84 | 23.85 | 21.99 | 23.02 | 24.40 | 8.1 |
| 85 | 85 | 22.05 | 20.61 | 23.66 | 23.48 | 8.5 |
| 86 | 86 | 22.05 | 20.87 | 23.93 | 22.96 | 13.7 |
| 90 | 90 | 20.28 | 20.73 | 21.86 | 24.25 | 2.2 |
| 91 | 91 | 19.88 | 19.00 | 22.20 | 24.17 | 1.6 |
| 93 | 93 | 19.99 | 19.75 | 21.51 | 23.98 | 1.9 |
| 94 | 94 | 22.54 | 20.88 | 23.15 | 22.69 | 15.5 |
| 95 | 95 | 21.83 | 22.52 | 24.73 | 22.22 | 38.3 |
| 96 | 96 | 21.14 | 28.90 | 30.40 | 23.81 | 2.8 |
| 99 | 99 | 20.09 | 19.09 | 22.20 | 21.73 | 9.1 |
| 100 | 100 | 21.68 | 20.05 | 22.28 | 21.63 | 17.9 |
| 101 | 101 | 22.85 | 21.11 | 21.90 | 24.21 | 4.6 |
| 102 | 102 | 20.72 | 20.12 | 20.35 | 23.97 | 1.9 |
| 104 | 104 | 22.27 | 21.16 | 22.94 | 23.19 | 10.5 |
| 105 | 105 | 23.85 | 22.99 | 23.44 | 22.06 | 56.6 |
| 106 | 106 | 20.06 | 19.88 | 22.10 | 22.72 | 5.3 |
| 107 | 107 | 21.30 | 21.26 | 22.07 | 22.57 | 10.7 |
| 108 | 108 | 20.49 | 20.47 | 22.46 | 22.34 | 9.6 |
| 109 | 109 | 20.57 | 20.01 | 21.50 | 22.82 | 5.1 |
| 110 | 110 | 21.99 | 20.98 | 22.54 | 24.24 | 4.2 |
| 111 | 111 | 22.18 | 21.10 | 23.85 | 23.19 | 12.5 |
| 113 | 113 | 21.08 | 18.89 | 21.73 | 21.74 | 9.8 |
| 114 | 114 | 20.74 | 19.94 | 22.47 | 22.23 | 9.7 |
| 115 | 115 | 21.53 | 21.68 | 23.65 | 24.73 | 4 |
| 116 | 116 | 20.32 | 19.46 | 22.27 | 22.20 | 7.7 |
| 120 | 120 | 20.51 | 19.38 | 22.13 | 22.76 | 5.2 |
| 121 | 121 | 23.53 | 23.11 | 22.94 | 18.66 | 509 |
| 122 | 122 | 21.79 | 20.81 | 24.02 | 23.36 | 9.9 |
| 125 | 125 | 21.08 | 20.74 | 21.87 | 22.44 | 9.5 |
| 126 | 126 | 24.42 | 21.70 | 26.88 | 24.18 | 24.4 |
| 127 | 127 | 22.02 | 19.46 | 22.12 | 22.25 | 10.6 |
| 128 | 128 | 20.92 | 20.84 | 22.99 | 23.04 | 8 |
| 130 | 130 | 23.89 | 23.56 | 24.57 | 27.35 | 2.2 |
| 131 | 131 | 21.25 | 19.13 | 21.51 | 22.19 | 7.4 |
| 132 | 132 | 20.19 | 20.40 | 20.50 | 24.35 | 1.4 |
| 134 | 134 | 22.75 | 21.68 | 23.29 | 25.67 | 2.6 |
| 136 | 136 | 22.44 | 21.24 | 22.88 | 23.51 | 8.8 |
| 137 | 137 | 21.90 | 20.02 | 21.47 | 23.66 | 3.8 |
| 138 | 138 | 24.57 | 23.57 | 26.31 | 26.66 | 6.1 |
| 140 | 140 | 22.41 | 22.39 | 25.04 | 23.14 | 24.2 |
| 142 | 142 | 23.94 | 23.42 | 25.98 | 25.36 | 11.7 |
| 143 | 143 | 22.76 | 20.80 | 24.01 | 23.71 | 9.6 |
| 144 | 144 | 20.02 | 19.23 | 21.54 | 22.19 | 5.8 |
| 145 | 145 | 22.05 | 19.93 | 23.18 | 22.91 | 9.7 |
| 146 | 146 | 22.41 | 21.93 | 23.95 | 23.12 | 17.1 |
| 147 | 147 | 24.42 | 23.85 | 27.22 | 26.43 | 9.1 |
| 148 | 148 | 24.44 | 24.02 | 25.07 | 24.58 | 20.9 |
| 149 | 149 | 21.03 | 20.00 | 22.14 | 23.61 | 3.8 |
| 152 | 152 | 21.95 | 20.59 | 23.65 | 22.59 | 15.2 |
| 155 | 155 | 21.03 | 21.34 | 22.63 | 22.69 | 10.8 |
| 156 | 156 | 22.11 | 21.51 | 23.81 | 23.63 | 9.9 |
| 157 | 157 | 20.80 | 20.88 | 22.96 | 22.65 | 10.2 |
| 158 | 158 | 20.60 | 19.91 | 21.03 | 21.35 | 12.3 |
| 160 | 160 | 21.49 | 21.80 | 25.37 | 23.23 | 17.2 |
| 162 | 162 | 21.46 | 20.21 | 22.51 | 22.99 | 7.2 |
| 166 | 166 | 22.62 | 20.60 | 22.12 | 23.77 | 5.5 |
| 167 | 167 | 20.72 | 20.18 | 22.74 | 24.38 | 2.4 |
| 168 | 168 | 21.06 | 19.79 | 22.63 | 22.52 | 8.5 |
| 169 | 169 | 22.57 | 20.35 | 22.94 | 21.89 | 23 |
| 172 | 172 | 22.49 | 21.50 | 23.74 | 24.60 | 5.4 |
| 173 | 173 | 20.73 | 20.97 | 21.10 | 21.75 | 12.4 |
| 174 | 174 | 22.44 | 20.30 | 22.68 | 23.94 | 5 |
| 175 | 175 | 21.23 | 21.07 | 23.82 | 23.39 | 8.6 |
| 176 | 176 | 22.00 | 20.89 | 22.89 | 23.83 | 5.9 |
| 178 | 178 | 21.04 | 19.84 | 22.21 | 23.69 | 3.5 |
| 180 | 180 | 21.10 | 19.86 | 20.09 | 23.06 | 3.4 |
| 181 | 181 | 20.74 | 19.61 | 22.33 | 23.41 | 3.8 |
| 182 | 182 | 23.17 | 19.19 | 22.82 | 19.32 | 116.8 |
| 183 | 183 | 22.34 | 21.38 | 24.09 | 22.57 | 22.5 |
| 184 | 184 | 21.90 | 20.18 | 22.13 | 23.17 | 6.4 |
| 185 | 185 | 21.98 | 21.14 | 23.17 | 23.88 | 6.4 |
| 186 | 186 | 20.96 | 21.24 | 21.97 | 23.30 | 5.9 |
| 188 | 188 | 23.39 | 21.63 | 25.04 | 25.97 | 3.6 |
| 189 | 189 | 24.39 | 24.17 | 25.91 | 25.45 | 14.2 |
| 190 | 190 | 23.59 | 22.65 | 25.91 | 25.54 | 7.8 |
| 191 | 191 | 23.15 | 22.39 | 24.95 | 24.12 | 14.2 |
| 192 | 192 | 22.22 | 21.64 | 24.25 | 23.05 | 17.2 |
| 193 | 193 | 21.60 | 21.87 | 24.45 | 22.75 | 20.4 |
| 194 | 194 | 20.40 | 18.70 | 23.61 | 22.87 | 5.6 |
| 197 | 197 | 19.44 | 18.60 | 22.94 | 22.70 | 4.2 |
| 199 | 199 | 20.84 | 20.00 | 22.96 | 23.53 | 4.6 |
| 200 | 200 | 23.51 | 25.78 | 26.82 | 24.44 | 41.9 |
| 201 | 201 | 23.27 | 21.89 | 23.37 | 25.05 | 4.7 |
| 202 | 202 | 21.78 | 20.20 | 21.92 | 22.28 | 11.1 |
| 203 | 203 | 24.23 | 23.51 | 26.50 | 25.09 | 17.3 |
| 204 | 204 | 22.84 | 23.06 | 25.55 | 27.59 | 1.6 |
| 206 | 206 | 20.62 | 29.25 | 29.02 | 21.24 | 11.6 |
| 207 | 207 | 21.09 | 20.13 | 23.35 | 23.36 | 6.1 |
| 208 | 208 | 20.26 | 20.03 | 22.87 | 22.98 | 5.8 |
| 209 | 209 | 22.32 | 21.31 | 24.91 | 23.75 | 11.8 |
| 211 | 211 | 21.61 | 22.08 | 23.87 | 22.83 | 17.7 |
| 213 | 213 | 23.12 | 22.99 | 24.53 | 25.83 | 4.5 |
| 215 | 215 | 19.28 | 18.67 | 19.74 | 20.06 | 12.4 |
| 216 | 216 | 22.85 | 22.04 | 23.76 | 21.48 | 57.9 |
| 218 | 218 | 21.29 | 20.05 | 23.25 | 22.96 | 8.2 |
| 219 | 219 | 23.06 | 22.17 | 26.06 | 24.87 | 10.2 |
| 221 | 221 | 23.53 | 21.47 | 23.11 | 24.70 | 5.5 |
| 223 | 223 | 21.89 | 20.28 | 22.09 | 19.70 | 72.4 |
| 224 | 224 | 20.41 | 20.26 | 20.71 | 23.62 | 2.5 |
| 226 | 226 | 24.89 | 22.57 | 24.42 | 25.97 | 5.5 |
| 227 | 227 | 23.39 | 22.48 | 25.42 | 24.23 | 15.9 |
| 229 | 229 | 20.18 | 19.68 | 21.87 | 21.76 | 9.7 |
| 230 | 230 | 20.66 | 19.85 | 22.66 | 21.62 | 14.9 |
| 232 | 232 | 24.15 | 24.91 | 27.01 | 24.05 | 54.2 |
| 234 | 234 | 22.07 | 20.72 | 24.03 | 24.06 | 6.4 |
| 235 | 235 | 21.35 | 20.57 | 22.64 | 22.88 | 8.6 |
| 238 | 238 | 21.69 | 20.58 | 23.01 | 23.29 | 7.6 |
| 239 | 239 | 21.67 | 21.69 | 24.03 | 23.20 | 13.2 |
| 240 | 240 | 21.99 | 19.45 | 24.07 | 23.75 | 5.8 |
| 241 | 241 | 24.51 | 26.48 | 28.52 | 25.94 | 32.6 |
| 242 | 242 | 20.50 | 20.37 | 22.40 | 22.01 | 11.6 |
| 243 | 243 | 21.54 | 20.80 | 22.60 | 22.31 | 13.8 |
| 246 | 246 | 21.19 | 20.34 | 22.62 | 22.91 | 7.6 |
| 249 | 249 | 32.13 | Undetermined | 38.08 | 38.30 | 1.6 |
| 251 | 251 | 21.39 | 21.00 | 23.27 | 22.10 | 19 |
| 252 | 252 | 23.62 | 21.28 | 26.52 | 24.28 | 15.8 |
| 254 | 254 | 22.91 | 20.54 | 23.16 | 23.30 | 10.2 |
| 255 | 255 | 21.17 | 19.51 | 22.51 | 22.90 | 6.2 |
| 256 | 256 | 20.54 | 19.78 | 22.55 | 21.70 | 13.2 |
| 257 | 257 | 23.73 | 22.37 | 24.21 | 24.39 | 11.3 |
| 258 | 258 | 21.87 | 20.21 | 23.94 | 23.68 | 6.9 |
| 259 | 259 | 20.89 | 20.28 | 22.31 | 21.64 | 15.7 |
| 260 | 260 | 19.70 | 19.95 | 19.84 | 22.18 | 4.3 |
| 262 | 262 | 21.25 | 19.35 | 22.43 | 21.37 | 17.2 |
| 263 | 263 | 20.41 | 20.02 | 21.82 | 22.24 | 7.9 |
| 266 | 266 | 21.34 | 20.45 | 22.58 | 25.69 | 1.2 |
| 269 | 269 | 21.16 | 19.95 | 22.78 | 22.63 | 8.8 |
| 272 | 272 | 24.59 | 23.72 | 26.03 | 22.13 | 137.4 |
| 273 | 273 | 20.54 | 21.03 | 23.05 | 22.00 | 15.9 |
| 274 | 274 | 22.03 | 20.31 | 22.09 | 22.62 | 9.9 |
| 275 | 275 | 22.11 | 21.50 | 22.23 | 22.95 | 11 |
| 277 | 277 | 21.72 | 20.91 | 23.56 | 23.49 | 8.1 |
| 282 | 282 | 20.10 | 17.55 | 22.08 | 21.16 | 9.2 |
| 283 | 283 | 21.07 | 21.23 | 21.98 | 23.05 | 7.1 |
| 284 | 284 | 24.19 | 22.16 | 25.67 | 23.36 | 34.4 |
| 285 | 285 | 20.58 | 20.41 | 22.77 | 22.54 | 9 |
| 286 | 286 | 19.39 | 19.27 | 23.01 | 21.57 | 10.9 |
| 287 | 287 | 20.91 | 19.97 | 21.99 | 23.10 | 5 |
| 288 | 288 | 22.10 | 21.18 | 23.06 | 22.46 | 17.3 |
| 289 | 289 | 20.82 | 20.40 | 22.27 | 21.52 | 17.2 |
| 293 | 293 | 20.71 | 20.23 | 21.12 | 19.02 | 69.7 |
| 294 | 294 | 22.82 | 23.28 | 26.29 | 23.71 | 29.3 |
| 295 | 295 | 20.48 | 19.62 | 23.04 | 20.37 | 35.2 |
| 297 | 297 | 22.93 | 22.07 | 23.97 | 22.63 | 28.1 |
| 300 | 300 | 21.26 | 20.58 | 22.20 | 22.04 | 13.6 |
| 301 | 301 | 22.50 | 22.25 | 24.80 | 23.39 | 19 |
| 304 | 304 | 21.89 | 21.13 | 23.20 | 22.14 | 21 |
| 308 | 308 | 21.08 | 20.99 | 22.29 | 22.81 | 8.6 |
| 309 | 309 | 21.27 | 19.99 | 22.47 | 24.02 | 3.2 |
| 310 | 310 | 20.85 | 20.60 | 22.65 | 24.10 | 3.3 |
| 311 | 311 | 22.00 | 21.16 | 22.75 | 23.55 | 7.3 |
| 312 | 312 | 22.24 | 22.00 | 23.46 | 22.45 | 23.8 |
| 313 | 313 | 20.09 | 19.33 | 23.01 | 21.24 | 16.3 |
| 314 | 314 | 20.26 | 19.48 | 22.65 | 21.43 | 14.2 |
| 316 | 316 | 20.51 | 20.07 | 22.67 | 23.39 | 4.5 |
| 318 | 318 | 21.02 | 19.70 | 23.63 | 19.61 | 78.4 |
| 319 | 319 | 20.46 | 20.61 | 24.49 | 22.76 | 11.7 |
| 320 | 320 | 21.10 | 20.63 | 22.11 | 22.97 | 6.8 |
| 321 | 321 | 21.23 | 20.86 | 20.41 | 23.00 | 4.9 |
| 325 | 325 | 22.44 | 20.86 | 23.57 | 22.53 | 18.6 |
| 326 | 326 | 20.95 | 19.52 | 21.61 | 23.59 | 2.9 |
| 327 | 327 | 25.45 | 24.24 | 29.51 | 26.12 | 26.6 |
| 328 | 328 | 20.84 | 19.83 | 22.54 | 21.91 | 12.3 |
| 330 | 330 | 21.23 | 20.30 | 22.60 | 21.79 | 16.5 |
| 334 | 334 | 21.97 | 19.98 | 22.84 | 19.26 | 110.9 |
| 335 | 335 | 21.91 | 21.00 | 24.45 | 20.70 | 74.1 |
| 338 | 338 | 21.30 | 19.62 | 21.47 | 19.72 | 46.1 |
| 340 | 340 | 23.57 | 22.83 | 24.53 | 26.12 | 3.9 |
| 341 | 341 | 23.53 | 21.13 | 26.56 | 24.41 | 13.8 |
| 342 | 342 | 20.90 | 20.01 | 21.28 | 21.79 | 10.5 |
| 343 | 343 | 21.36 | 20.29 | 22.78 | 23.37 | 5.9 |
| 344 | 344 | 22.16 | 20.59 | 24.71 | 22.63 | 19.8 |
| 347 | 347 | 20.85 | 20.26 | 23.07 | 22.09 | 13.6 |
| 348 | 348 | 25.52 | 24.81 | 25.98 | 27.34 | 5.9 |
| 349 | 349 | 21.65 | 21.33 | 24.99 | 24.31 | 7 |
| 350 | 350 | 22.01 | 21.76 | 24.40 | 22.68 | 22.6 |
| 351 | 351 | 21.12 | 21.22 | 24.35 | 22.77 | 15.1 |
| 353 | 353 | 21.12 | 20.73 | 23.06 | 22.05 | 16.5 |
| 354 | 354 | 20.87 | 19.71 | 21.37 | 22.88 | 4.7 |
| 355 | 355 | 22.39 | 22.15 | 24.36 | 23.76 | 12.7 |
| 356 | 356 | 25.79 | 23.87 | 27.00 | 27.06 | 7.7 |
| 357 | 357 | 25.57 | 23.10 | 27.80 | 26.69 | 9.5 |
| 358 | 358 | 24.58 | 22.62 | 25.87 | 24.09 | 26.4 |
| 360 | 360 | 20.75 | 20.72 | 22.47 | 21.69 | 16.9 |
| 361 | 361 | 19.93 | 19.67 | 21.06 | 22.25 | 5.4 |
| 362 | 362 | 25.11 | 22.67 | 24.50 | 23.84 | 26.3 |
| 363 | 363 | 21.44 | 20.45 | 20.46 | 21.72 | 11.5 |
| 365 | 365 | 20.21 | 19.24 | 21.65 | 22.43 | 5.3 |
| 367 | 367 | 23.65 | 22.20 | 23.96 | 23.24 | 22.4 |
| 368 | 368 | 21.37 | 20.11 | 22.20 | 21.79 | 14.9 |
| 369 | 369 | 21.44 | 20.66 | 24.71 | 22.62 | 17.2 |
| 370 | 370 | 22.81 | 21.78 | 23.90 | 24.54 | 6.7 |
| 372 | 372 | 19.94 | 19.17 | 22.77 | 19.09 | 63.6 |
| 373 | 373 | 23.25 | 23.41 | 25.57 | 23.61 | 30.3 |
| 374 | 374 | 20.50 | 20.04 | 23.46 | 21.96 | 14.3 |
| 375 | 375 | 23.19 | 21.57 | 25.60 | 26.07 | 3.6 |
| 376 | 376 | 20.78 | 19.67 | 22.74 | 24.66 | 1.8 |
| 378 | 378 | 19.73 | 19.46 | 27.72 | 21.78 | 31.5 |
| 380 | 380 | 22.13 | 20.99 | 24.53 | 23.71 | 9.9 |
| 382 | 382 | 21.77 | 19.55 | 22.23 | 22.82 | 7.1 |
| 383 | 383 | 24.11 | 23.66 | 25.80 | 25.39 | 12 |
| 384 | 384 | 24.56 | 23.61 | 26.75 | 25.57 | 14.5 |
| 385 | 385 | 20.34 | 19.46 | 20.78 | 21.89 | 6.8 |
| 386 | 386 | 21.64 | 20.59 | 23.20 | 22.33 | 15.3 |
| 387 | 387 | 19.86 | 19.00 | 22.72 | 20.70 | 19.5 |
| 389 | 389 | 20.95 | 19.08 | 22.74 | 22.14 | 9.4 |
| 391 | 391 | 20.71 | 20.77 | 22.51 | 23.61 | 4.5 |
| 392 | 392 | 20.29 | 20.23 | 21.25 | 22.17 | 7.3 |
| 394 | 394 | 22.20 | 29.95 | 33.00 | 21.59 | 27.2 |
| 395 | 395 | 25.47 | 25.08 | 27.04 | 26.53 | 13.8 |
| 396 | 396 | 21.64 | 18.71 | 21.98 | 23.71 | 2.9 |
| 397 | 397 | 19.10 | 19.99 | 20.74 | 21.52 | 7.4 |
| 398 | 398 | 30.54 | 30.55 | 38.05 | 34.47 | 8.2 |
| 399 | 399 | 20.59 | 19.99 | 22.02 | 21.93 | 10.5 |
| 400 | 400 | 21.57 | 20.73 | 23.59 | 24.37 | 4.1 |
| 401 | 401 | 23.13 | 21.49 | 25.52 | 22.48 | 41 |

Norm: normalized.

Supplementary Table 2. Association of miR-181a-5p and P-Smad2 with clinical characteristics. Statistical correlation (*p*, *p*-value) between phosphorylation levels of Smad-2 and expression level of miR-18a-5p with clinical and pathological features.

|  |  |  |
| --- | --- | --- |
|  | P-Smad2 | miR-181a-5p |
|  | Median (IQR) | *p* | Median (IQR) | *p* |
| Age category |
|  | <65 | 20.0 (10.0–55.0) | 0.8019 | 10.4 (6.1–17.5) | 0.057 |
| ≥65 | 27.5 (5.0–60.0) | 8.1 (4.5–12.7) |
| ECOG Performance Status |
|  | 0 | 20.0 (10.0–40.0) | 0.0043 | 9.8 (5.5–16.9) | 0.766 |
| 1–2 | 30.0 (15.0–70.0) | 9.1 (6.4–14.1) |
| Residual disease |
|  | None | 20.0 (5.0–40.0) | <0.001 | 9.7 (5.5–17.2) | 0.2166 |
| ≤1 cm | 20.0 (10.0–40.0) | 9.7 (5.8–15.1) |
| >1 cm | 20.0 (10.0–40.0) | 9.2 (5.8–13.2) |
| not operated | 70.0 (55.0–80.0) | 12.4 (8.7–20.4) |
| FIGO stage |
|  | III | 25.0 (10.0–50.0) | 0.8236 | 10.5 (5.9–16.9) | 0.0330 |
| IV | 20.0 (10.0–60.0) | 7.2 (4.7–11.6) |
| Tumor histology |
|  | High Grade Serous | 20.0 (10.0–60.0) | 0.8584 | 9.5 (5.5–15.6) | 0.0126 |
| Other | 30.0 (10.0–55.0) | 12.5 (8.1–24.4) |
| *BRCA* status |
|  | Mutated | 20.0 (5.0–37.5) | 0.0996 | 8.1 (4.6–14.2) | 0.1162 |
| Wild Type | 25.0 (10.0–60.0) | 9.9 (5.9–16.9) |

IQR: Interquartile range; ECOG: Eastern Cooperative Oncology Group; FIGO: International Federation of Gynecology and Obstetrics; *BRCA*: BReast CAncer genes.