

Supplemental Table 5 (S5): Influence of quercetin-rich food intake (T3-vs-T1) on miR expression, by histology and smoking status

| Index | miR | Histology ¹ | | Smoking status ² | |
|-------|----------------|------------------------|-------------------------|-----------------------------|---------------|
| | | Adenocarcinoma | Squamous cell carcinoma | Former | Current |
| 2 | hsa-miR-208a | 0.8229 | 0.1431 | 0.3446 | 0.4419 |
| 4 | hsa-miR-20a | 0.8047 | 0.7100 | 0.2814 | 0.1815 |
| 6 | hsa-miR-21 | 0.8229 | 0.9609 | 0.3326 | 0.4038 |
| 7 | hsa-let-7a | 0.4436 | 0.7244 | 0.0487 | 0.7068 |
| 8 | hsa-miR-210 | 0.8024 | 0.7385 | 0.1250 | 0.9754 |
| 9 | hsa-let-7b | 0.6372 | 0.9091 | 0.1621 | 0.8282 |
| 11 | hsa-let-7c | 0.5342 | 0.7557 | 0.0910 | 0.7809 |
| 12 | hsa-miR-212 | 0.9197 | 0.1967 | 0.3263 | 0.9443 |
| 13 | hsa-let-7d | 0.7805 | 0.1564 | 0.0401 | 0.6535 |
| 15 | hsa-let-7e | 0.4942 | 0.9357 | 0.0335 | 0.6290 |
| 16 | hsa-miR-214 | 0.4703 | 0.4817 | 0.4176 | 0.1323 |
| 17 | hsa-let-7f | 0.4054 | 0.6810 | 0.0722 | 0.4363 |
| 18 | hsa-miR-215 | 0.1468 | 0.7755 | 0.9715 | 0.1121 |
| 19 | hsa-let-7g | 0.9017 | 0.9920 | 0.2881 | 0.4959 |
| 20 | hsa-miR-216a | 0.5333 | 0.4837 | 0.5285 | 0.9925 |
| 21 | hsa-let-7i | 0.6168 | 0.8463 | 0.0966 | 0.8564 |
| 25 | hsa-miR-432 | 0.7558 | 0.6648 | 0.9124 | 0.9616 |
| 31 | hsa-miR-449a | 0.2363 | 0.3110 | 0.8636 | 0.6267 |
| 35 | hsa-miR-452 | 0.6805 | 0.2713 | 0.6964 | 0.5947 |
| 41 | hsa-miR-485-5p | 0.2557 | 0.9298 | 0.5376 | 0.0874 |
| 43 | hsa-miR-487b | 0.2097 | 0.7635 | 0.2682 | 0.7082 |
| 45 | hsa-miR-488 | 0.6579 | 0.2437 | 0.5757 | 0.7958 |
| 47 | hsa-miR-489 | 0.4120 | 0.3663 | 0.4179 | 0.3083 |
| 52 | hsa-miR-22 | 0.5989 | 0.9315 | 0.2988 | 0.8092 |
| 53 | hsa-miR-103a | 0.7564 | 0.5355 | 0.5623 | 0.3927 |
| 56 | hsa-miR-221 | 0.1342 | 0.9649 | 0.5024 | 0.5056 |
| 57 | hsa-miR-106a | 0.8025 | 0.4851 | 0.1972 | 0.6071 |
| 58 | hsa-miR-222 | 0.6609 | 0.3834 | 0.7271 | 0.1740 |
| 59 | hsa-miR-106b | 0.7923 | 0.5085 | 0.4510 | 0.3332 |
| 61 | hsa-miR-107 | 0.7114 | 0.9371 | 0.7728 | 0.6838 |
| 64 | hsa-miR-23a | 0.7536 | 0.2891 | 0.4475 | 0.6819 |
| 66 | hsa-miR-23b | 0.6762 | 0.2686 | 0.5067 | 0.3736 |
| 67 | hsa-miR-122a | 0.0658 | 0.5299 | 0.9832 | 0.7653 |
| 68 | hsa-miR-24 | 0.2615 | 0.7759 | 0.2948 | 0.9934 |
| 69 | hsa-miR-124a | 0.0440 | 0.5774 | 0.5705 | 0.0829 |
| 70 | hsa-miR-25 | 0.1978 | 0.8846 | 0.7934 | 0.5375 |
| 71 | hsa-miR-125a | 0.0450 | 0.1903 | 0.7399 | 0.2239 |
| 72 | hsa-miR-26a | 0.6263 | 0.9001 | 0.1436 | 0.7119 |
| 75 | hsa-miR-491 | 0.6528 | 0.1917 | 0.0391 | 0.7904 |
| 77 | hsa-miR-492 | 0.1982 | 0.0571 | 0.2866 | 0.7160 |
| 79 | hsa-miR-493-3p | 0.2398 | 0.9818 | 0.2870 | 0.0489 |

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|-----|----------------|---------------|---------------|---------------|---------------|
| 81 | hsa-miR-493-5p | 0.1595 | 0.4460 | 0.8097 | 0.7149 |
| 83 | hsa-miR-494 | 0.4216 | 0.6557 | 0.9388 | 0.8381 |
| 85 | hsa-miR-495 | 0.6966 | 0.9847 | 0.7516 | 0.6779 |
| 86 | hsa-miR-302d | 0.9549 | 0.4213 | 0.6228 | 0.9290 |
| 91 | hsa-miR-498 | 0.4996 | 0.4778 | 0.6682 | 0.8676 |
| 93 | hsa-miR-499 | 0.9224 | 0.1345 | 0.5687 | 0.4763 |
| 95 | hsa-miR-500a | 0.1410 | 0.5697 | 0.0005 | 0.6977 |
| 97 | hsa-miR-125b | 0.1825 | 0.7222 | 0.4222 | 0.2767 |
| 98 | hsa-miR-26b | 0.4170 | 0.6497 | 0.0488 | 0.7815 |
| 99 | hsa-miR-126 | 0.1005 | 0.5797 | 0.3017 | 0.6354 |
| 100 | hsa-miR-27a | 0.4618 | 0.5362 | 0.0822 | 0.3278 |
| 106 | hsa-miR-299-3p | 0.4588 | 0.5707 | 0.9554 | 0.6628 |
| 107 | hsa-miR-129 | 0.3146 | 0.6115 | 0.4491 | 0.7239 |
| 108 | hsa-miR-29a | 0.8061 | 0.1078 | 0.1552 | 0.3920 |
| 109 | hsa-miR-130a | 0.9541 | 0.4443 | 0.8748 | 0.6650 |
| 110 | hsa-miR-29b | 0.6757 | 0.6653 | 0.0635 | 0.8626 |
| 111 | hsa-miR-130b | 0.3129 | 0.4829 | 0.2649 | 0.8498 |
| 112 | hsa-miR-29c | 0.4849 | 0.4240 | 0.2835 | 0.9156 |
| 121 | hsa-miR-501 | 0.2345 | 0.3601 | 0.0221 | 0.7713 |
| 123 | hsa-miR-502 | 0.0169 | 0.0172 | 0.7590 | 0.9489 |
| 125 | hsa-miR-503 | 0.4887 | 0.3070 | 0.3453 | 0.1078 |
| 131 | hsa-miR-506 | 0.4878 | 0.0588 | 0.8518 | 0.0300 |
| 137 | hsa-miR-509 | 0.8693 | 0.3724 | 0.6604 | 0.5948 |
| 139 | hsa-miR-510 | 0.3999 | 0.0026 | 0.1192 | 0.4393 |
| 143 | hsa-miR-512-3p | 0.5340 | 0.4351 | 0.1044 | 0.3505 |
| 146 | hsa-miR-302c* | 0.7823 | 0.6142 | 0.2363 | 0.1112 |
| 148 | hsa-miR-30a-3p | 0.7603 | 0.1733 | 0.5052 | 0.0939 |
| 149 | hsa-miR-138 | 0.8013 | 0.3010 | 0.1571 | 0.7027 |
| 150 | hsa-miR-30a-5p | 0.7175 | 0.8058 | 0.3425 | 0.5474 |
| 152 | hsa-miR-30b | 0.4387 | 0.5457 | 0.1526 | 0.3805 |
| 154 | hsa-miR-30c | 0.8692 | 0.9306 | 0.4545 | 0.4483 |
| 156 | hsa-miR-30d | 0.8653 | 0.8495 | 0.6820 | 0.9068 |
| 157 | hsa-miR-142-3p | 0.6465 | 0.4324 | 0.3614 | 0.4525 |
| 159 | hsa-miR-142-5p | 0.4182 | 0.2217 | 0.4318 | 0.6231 |
| 160 | hsa-miR-30e-5p | 0.8433 | 0.9839 | 0.7414 | 0.5472 |
| 161 | hsa-miR-143 | 0.3270 | 0.7785 | 0.5127 | 0.5137 |
| 162 | hsa-miR-31 | 0.7769 | 0.7566 | 0.7466 | 0.9295 |
| 166 | hsa-miR-320a | 0.8074 | 0.1652 | 0.1720 | 0.9793 |
| 167 | hsa-miR-146a | 0.9017 | 0.1863 | 0.0266 | 0.5279 |
| 171 | hsa-miR-513a | 0.3374 | 0.4863 | 0.0894 | 0.5098 |
| 175 | hsa-miR-515-3p | 0.5716 | 0.9693 | 0.1818 | 0.1067 |
| 181 | hsa-miR-517* | 0.8714 | 0.5279 | 0.7737 | 0.8376 |
| 187 | hsa-miR-518c* | 0.6297 | 0.4901 | 0.9219 | 0.8078 |
| 193 | hsa-miR-147 | 0.3952 | 0.4869 | 0.6345 | 0.8976 |
| 194 | hsa-miR-324-3p | 0.7844 | 0.4724 | 0.6618 | 0.7181 |
| 197 | hsa-miR-149 | 0.3761 | 0.8195 | 0.2793 | 0.9829 |

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|-----|----------------|--------|---------------|---------------|---------------|
| 198 | hsa-miR-325 | 0.8866 | 0.1412 | 0.6100 | 0.3810 |
| 202 | hsa-miR-328 | 0.0534 | 0.6629 | 0.1076 | 0.2703 |
| 210 | hsa-miR-335 | 0.1098 | 0.8367 | 0.7677 | 0.6916 |
| 211 | hsa-miR-155 | 0.2776 | 0.0122 | 0.2789 | 0.5639 |
| 213 | hsa-miR-15a | 0.0886 | 0.9932 | 0.6680 | 0.8733 |
| 215 | hsa-miR-16 | 0.4841 | 0.6298 | 0.0458 | 0.6092 |
| 217 | hsa-miR-518f* | 0.1510 | 0.7616 | 0.4732 | 0.1855 |
| 227 | hsa-miR-519e* | 0.1141 | 0.1587 | 0.5406 | 0.6723 |
| 233 | hsa-miR-520b | 0.7900 | 0.3012 | 0.9909 | 0.1686 |
| 234 | hsa-miR-520c | 0.7383 | 0.1451 | 0.9384 | 0.0428 |
| 236 | hsa-miR-520d | 0.1585 | 0.2469 | 0.4294 | 0.0800 |
| 240 | hsa-miR-17-3p | 0.3102 | 0.4110 | 0.5838 | 0.1800 |
| 242 | hsa-miR-17-5p | 0.9066 | 0.4032 | 0.3087 | 0.1812 |
| 243 | hsa-miR-342 | 0.7820 | 0.5675 | 0.7911 | 0.8743 |
| 244 | hsa-miR-181a | 0.6801 | 0.7851 | 0.4917 | 0.6046 |
| 246 | hsa-miR-181b | 0.8236 | 0.9749 | 0.9950 | 0.6676 |
| 249 | hsa-miR-34a | 0.6075 | 0.8969 | 0.3345 | 0.5597 |
| 250 | hsa-miR-182 | 0.8743 | 0.7440 | 0.8318 | 0.1987 |
| 251 | hsa-miR-34b | 0.1318 | 0.6682 | 0.2911 | 0.8489 |
| 253 | hsa-miR-34c | 0.6467 | 0.3420 | 0.9115 | 0.9743 |
| 254 | hsa-miR-183 | 0.1112 | 0.0215 | 0.1385 | 0.0176 |
| 255 | hsa-miR-361 | 0.7747 | 0.2642 | 0.5881 | 0.8184 |
| 256 | hsa-miR-184 | 0.7026 | 0.7346 | 0.0289 | 0.4362 |
| 258 | hsa-miR-185 | 0.3527 | 0.1138 | 0.0772 | 0.4363 |
| 274 | hsa-miR-524* | 0.4394 | 0.0358 | 0.3333 | 0.1055 |
| 276 | hsa-miR-525 | 0.3503 | 0.5706 | 0.6327 | 0.6793 |
| 279 | hsa-miR-363* | 0.8910 | 0.0464 | 0.0969 | 0.4823 |
| 280 | hsa-miR-526b | 0.9401 | 0.3407 | 0.8761 | 0.5424 |
| 283 | hsa-miR-527 | 0.7190 | 0.6890 | 0.1153 | 0.7134 |
| 287 | hsa-miR-188 | 0.8927 | 0.3955 | 0.9800 | 0.1894 |
| 288 | hsa-miR-370 | 0.9140 | 0.6162 | 0.7276 | 0.1978 |
| 291 | hsa-miR-18a | 0.7261 | 0.7367 | 0.4380 | 0.8728 |
| 294 | hsa-miR-373 | 0.2532 | 0.0142 | 0.4126 | 0.9874 |
| 295 | hsa-miR-191 | 0.8830 | 0.5884 | 0.9630 | 0.9643 |
| 296 | hsa-miR-373* | 0.6906 | 0.5041 | 0.1341 | 0.4668 |
| 298 | hsa-miR-374a | 0.3093 | 0.0572 | 0.1921 | 0.3061 |
| 303 | hsa-miR-194 | 0.1116 | 0.6146 | 0.7424 | 0.0523 |
| 304 | hsa-miR-195 | 0.8304 | 0.8349 | 0.1216 | 0.5811 |
| 306 | hsa-miR-378 | 0.5504 | 0.3547 | 0.8965 | 0.2998 |
| 308 | hsa-miR-379 | 0.8614 | 0.4049 | 0.6095 | 0.2791 |
| 309 | hsa-miR-542-3p | 0.4667 | 0.2969 | 0.0479 | 0.1930 |
| 311 | hsa-miR-542-5p | 0.9047 | 0.3654 | 0.3095 | 0.8716 |
| 323 | hsa-miR-92a | 0.9112 | 0.8013 | 0.2386 | 0.8116 |
| 325 | hsa-miR-93 | 0.9336 | 0.4666 | 0.2800 | 0.5912 |
| 327 | hsa-miR-95 | 0.7858 | 0.3316 | 0.8586 | 0.7367 |
| 331 | hsa-miR-98 | 0.8426 | 0.8798 | 0.1134 | 0.4354 |

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|-----|-----------------|--------|---------------|--------|---------------|
| 335 | hsa-miR-198 | 0.9349 | 0.5373 | 0.2957 | 0.8123 |
| 338 | hsa-miR-381 | 0.9353 | 0.4004 | 0.9660 | 0.1979 |
| 340 | hsa-miR-382 | 0.6094 | 0.6174 | 0.3585 | 0.3694 |
| 341 | hsa-miR-19a | 0.3521 | 0.2833 | 0.4701 | 0.4629 |
| 342 | hsa-miR-383 | 0.7021 | 0.7870 | 0.6722 | 0.1909 |
| 343 | hsa-miR-19b | 0.7379 | 0.6169 | 0.3483 | 0.6064 |
| 345 | hsa-miR-200b | 0.3708 | 0.2468 | 0.5283 | 0.3897 |
| 346 | hsa-miR-422a | 0.4735 | 0.4368 | 0.5308 | 0.7547 |
| 347 | hsa-miR-200c | 0.3164 | 0.7010 | 0.8214 | 0.2130 |
| 352 | hsa-miR-424 | 0.9431 | 0.8230 | 0.7034 | 0.2183 |
| 355 | hsa-miR-206 | 0.5643 | 0.7469 | 0.8075 | 0.9447 |
| 356 | hsa-miR-429 | 0.3656 | 0.1424 | 0.2357 | 0.5712 |
| 358 | hsa-miR-99b | 0.7472 | 0.6604 | 0.5886 | 0.2771 |
| 367 | hsa-miR-20b | 0.7005 | 0.6072 | 0.3871 | 0.5999 |
| 373 | hsa-miR-518a-2* | 0.5517 | 0.3731 | 0.3437 | 0.0204 |
| 389 | hsa-mir-552 | 0.7678 | 0.4523 | 0.4701 | 0.6778 |
| 393 | hsa-mir-637 | 0.9047 | 0.8972 | 0.3205 | 0.1702 |
| 398 | hsa-mir-612 | 0.4130 | 0.0420 | 0.2303 | 0.9779 |
| 399 | hsa-mir-555 | 0.6362 | 0.6843 | 0.1661 | 0.9028 |
| 417 | hsa-mir-601 | 0.9500 | 0.6616 | 0.3193 | 0.1552 |
| 419 | hsa-mir-584 | 0.5183 | 0.1291 | 0.0669 | 0.6796 |
| 435 | hsa-mir-614 | 0.3828 | 0.6113 | 0.4607 | 0.8846 |
| 444 | hsa-mir-623 | 0.2652 | 0.8951 | 0.5113 | 0.5167 |
| 445 | hsa-mir-557 | 0.9339 | 0.5020 | 0.1493 | 0.5619 |
| 447 | hsa-mir-598 | 0.1016 | 0.6897 | 0.8546 | 0.1292 |
| 457 | hsa-miR-146b | 0.4714 | 0.9854 | 0.1398 | 0.6102 |
| 460 | hsa-mir-654 | 0.2643 | 0.1136 | 0.0732 | 0.9729 |
| 471 | hsa-mir-532 | 0.9619 | 0.7994 | 0.7123 | 0.4296 |
| 477 | hsa-mir-595 | 0.5805 | 0.3151 | 0.1066 | 0.6664 |
| 490 | hsa-mir-583 | 0.3906 | 0.8979 | 0.8450 | 0.4080 |
| 492 | hsa-mir-574 | 0.2309 | 0.3597 | 0.5225 | 0.3619 |
| 493 | hsa-mir-610 | 0.6765 | 0.6846 | 0.9628 | 0.4698 |
| 498 | hsa-miR-202 | 0.7445 | 0.4448 | 0.1325 | 0.6232 |
| 505 | hsa-mir-580 | 0.2513 | 0.0605 | 0.6208 | 0.0053 |
| 515 | hsa-mir-622 | 0.2838 | 0.2610 | 0.3485 | 0.6337 |
| 516 | hsa-mir-573 | 0.5838 | 0.0243 | 0.8321 | 0.1005 |
| 518 | hsa-mir-602 | 0.6988 | 0.8461 | 0.8935 | 0.8372 |
| 521 | hsa-mir-663 | 0.9966 | 0.5382 | 0.1066 | 0.5064 |
| 528 | hsa-mir-605 | 0.8400 | 0.0040 | 0.1337 | 0.0256 |
| 532 | hsa-mir-615 | 0.3659 | 0.0846 | 0.8462 | 0.3587 |
| 540 | hsa-miR-18a* | 0.5092 | 0.6886 | 0.9875 | 0.9450 |
| 548 | hsa-miR-453 | 0.4847 | 0.0166 | 0.3871 | 0.6016 |
| 561 | hsa-mir-658 | 0.8412 | 0.7392 | 0.3538 | 0.2742 |
| 562 | hsa-mir-630 | 0.1369 | 0.5951 | 0.8782 | 0.2982 |
| 569 | hsa-mir-411 | 0.8016 | 0.1283 | 0.9649 | 0.5100 |
| 574 | hsa-miR-134 | 0.4836 | 0.3112 | 0.3776 | 0.2604 |

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|-----|---------------|---------------|---------------|---------------|--------|
| 579 | hsa-miR-526a | 0.5361 | 0.6333 | 0.9049 | 0.3227 |
| 589 | hsa-mir-641 | 0.2450 | 0.6531 | 0.0254 | 0.4205 |
| 595 | hsa-mir-591 | 0.9831 | 0.0975 | 0.3508 | 0.3255 |
| 597 | hsa-mir-650 | 0.0522 | 0.8653 | 0.1839 | 0.2914 |
| 599 | hsa-mir-638 | 0.7636 | 0.3830 | 0.0900 | 0.6113 |
| 622 | hsa-miR-18b | 0.0580 | 0.0197 | 0.5474 | 0.3113 |
| 631 | hsa-mir-594 | 0.1916 | 0.5765 | 0.6613 | 0.6447 |
| 640 | hsa-mir-625 | 0.8092 | 0.5384 | 0.8557 | 0.4717 |
| 641 | hsa-mir-565 | 0.6690 | 0.9783 | 0.7937 | 0.8410 |
| 662 | hsa-mir-582 | 0.5505 | 0.9939 | 0.5897 | 0.7029 |
| 666 | hsa-miR-200a* | 0.3325 | 0.6440 | 0.0879 | 0.4900 |
| 669 | hsa-miR-487a | 0.8881 | 0.7209 | 0.2677 | 0.6850 |
| 675 | hsa-mir-659 | 0.8885 | 0.6914 | 0.5834 | 0.9685 |
| 677 | hsa-mir-575 | 0.5637 | 0.7406 | 0.9265 | 0.4266 |
| 678 | hsa-mir-564 | 0.0297 | 0.4062 | 0.7739 | 0.4732 |
| 680 | hsa-mir-608 | 0.9925 | 0.6572 | 0.8586 | 0.8659 |
| 689 | hsa-mir-92b | 0.3182 | 0.8248 | 0.5832 | 0.9801 |
| 691 | hsa-mir-628 | 0.3764 | 0.6644 | 0.6364 | 0.9750 |
| 693 | hsa-mir-661 | 0.7033 | 0.7674 | 0.1416 | 0.8087 |

¹Adjusted for age, sex, BMI, smoking status, non-querctetin-rich foods, red-processed meat, alcohol, and cigarette packyears

²Adjusted for age, sex, BMI, non-querctetin-rich foods, red-processed meat, alcohol, and cigarette packyears

Bolded p-values indicated p-values <0.05