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| **Supplementary Table 1.** The AUCs and corresponding sensitivity and specificity of the ten miRNAs that display different expression between lung cancer patients and controls in a training set.  |
| miRNAs | P-value | AUC | Sensitivity (95% CI) | Specificity (95% CI) |  |
| miR-21 | 0.005 | 0.61 | 53.1 (40.2% to 65.7%) | 55.9 (43.3% to 67.9%) |  |
| miR-126 | 0.003 | 0.62 | 56.2 (44.1% to 67.8%) | 58.1 (47.4% to 68.2%) |  |
| miR-205 | 0.008 | 0.62 | 55 (41.6% to 67.9%) | 62.3 (48.9% to 74.4%) |  |
| miR-375 | 0.002 | 0.64 | 53.6 (39.7% to 67.0%) | 61.0 (47.4% to 73.5%) |  |
| miR200b | <0.001 | 0.67 | 57.9 (45.5% to 69.8%) | 55.9 (43.3% to 67.9%) |  |
| miR-182 | <0.001 | 0.68 | 60 (45.2% to 73.6%) | 58.5 (42.1% to 73.7%) |  |
| miR-486-5p | <0.001 | 0.68 | 57.5 (45.4% to 69.0%) | 57.1 (44.1% to 69.5%) |  |
| miR-708 | <0.001 | 0.69 | 57.9 (45.5% to 69.8%) | 65 (51.6% to 76.9%) |  |
| miR-210 | <0.001 | 0.78 | 65.8 (54.0% to 76.3%) | 73.8 (63.1% to 82.8%) |  |
| miR-31 | <0.001 | 0.79 | 76 (64.8% to 85.1%) | 71.4 (59.4% to 81.6%) |  |
| Abbreviations: AUC, the area under receiver operating characteristic curve; CI, confidence interval. |  |

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| **Supplementary Table 2.** The AUCs and corresponding sensitivity and specificity of the two miRNAs that display different expression between lung cancer patients and controls in a testing set.  |
| miRNAs | P-value | AUC | Sensitivity (95% CI) | Specificity (95% CI) |  |
| miR-210 | <0.001 | 0.79 | 62.6 (53.0% to 78.5%) | 71.8 (62.8% to 85.1%) |  |
| miR-31 | <0.001 | 0.77 | 75.3 (62.5% to 84.8%) | 73.5 (57.6% to 79.5%) |  |
| Abbreviations: AUC, the area under receiver operating characteristic curve; CI, confidence interval. |  |