

**Figure S1:** Differential miRNA expression in paired NSCLC tumors versus brain metastatic lesions;

**Table S1:** Differentially expressed miRNAs in primary NSCLC tumors versus brain metastatic lesions;

**Table S2:** Normalized counts and statistical analysis of differential miRNA expression in paired NSCLC tumors versus brain metastatic lesions;

**Table S3:** Target gene ranking of differentially expressed miRNAs ranked on their cumulative context score;

**Table S4:** Significantly altered pathways of target genes from all differentially expressed miRNAs;

**Table S5:** Interactions between differentially expressed miRNAs and core hub target genes in published literature.