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miR-199a-5p and miR-495 target GRP78 within UPR pathway of lung cancer

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Running head: Hsa-miR-199a-5p and hsa-miR-495 target GRP78 in UPR pathway

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High lights:

- miRNAs targeting GRP78 within UPR pathway is proposed.
- GRP78 is up-regulated in tissue lung tumors, compared to non-tumor samples. miR-199a-5p and miR-495 are down-regulated in lung tumor samples compared to non-tumor samples.
- Down-regulation of these miRNAs, might be the reason for up-regulation of GRP78 in NSCLC patients.
- miR-199a-5p and miR-495 have interaction with 3'-UTR of GRP78.
- These miRNAs might have effect on ER stress in lung cancer, and can be used as diagnostic biomarkers for activated UPR in NSCLC.

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