Supplementary Material

MicroRNA-21 overexpression promotes the neuroprotective efficacy of mesenchymal stem cells for treatment of intracerebral hemorrhage

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# Supplementary Data

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# Supplementary Figures and Tables

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## Supplementary Figures



Supplementary Figure 1. Apoptosis rate of PC12 cells transfected with miR-21 mimics, miR-21 inhibitors and their corresponding negative control (NC).



**Supplementary Figure 2.** Relative expression of potential target genes.



**Supplementary Figure 3**. Original Western Blotting. (A). Western blotting of cleaved-caspase 3. (B). Western blotting of β-actin. (C).Western blotting of MMP2. (D).Western blotting of MMP9. (E).Western blotting of TIMP1. (F).Western blotting of β-actin. (G). Western blotting of nucleus p65. (H). Western blotting of plasma p65. (I). Western blotting of p-IκB. (J).Western blotting of TRPM7. (K).Western blotting of β-actin. (L). Western blotting of Histone 3. (M). Western blotting of CD63. (N).Western blotting of CD9. (O). Western blotting of CD81.



**Supplement Figure 4.** The expression of PTEN detecting by western blotting.

## Supplementary Tables

**Table 1. The sequence of miRNA oligoes**

|  |  |
| --- | --- |
|  | Sequence |
| miR-21 mimics | 5’-UAGCUUAUCAGACUGAUGUUGA-3’  5’-AACAUCAGUCUGAUAAGCUAUU-3’ |
| miR-21 inhibitors | 5’-UCAACAUCAGUCUGAUAAGCUA-3’ |
| miRNA negative control | 5’-UUCUCCGAACGUGUCACGUTT-3’  5’-ACGUGACACGUUCGGAGAATT-3’ |
| miRNA inhibitors negative control | 5’-CAGUACUUUUGUGUAGUACAA-3’ |
| siRNA TRPM7(-3820) | 5’-GGCUCAGAAUCUUAUUGAUUU-3’  5’-AUCAAUAAGAUUCUGAGCCUU-3’ |
| siRNA negative control | 5’-UUCUCCGAACGUGUCACGUTT-3’  5’-ACGUGACACGUUCGGAGAATT-3’ |

**Table 2. The sequence of primers**

|  |  |  |
| --- | --- | --- |
|  | Forward | Reverse |
| miR-21 | 5’-TCGCCCGTAGCTTATCAGACT-3’ | 5’-CAGAGCAGGGTCCGAGGTA-3’ |
| U6 | 5′-ATTGGAACGATACAGAGAAGATT-3′ | 5′-GGAACGCTTCACGAATTTG-3′ |
| TRPM7 | 5’-TGCCATCTGAAGGAGGAACA-3’ | 5’-ACTCTGCGACAGCCTCATCA-3’ |
| β-actin | 5′-TGTCACCAACTGGGACGATA-3′ | 5′-GGGGTGTTGAAGGTCTCAAA-3′ |