



## Editorial

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# Understanding of Neurological Diseases

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Guest Editor

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This issue of the *International Neurology Journal* presented a special issue on the causes and treatments of neurological diseases considered as incurable diseases in modern medicine and science. It would be better if more articles could be included in the issue, however, the updated underlying mechanisms and suggestable treatments of major neurological diseases were supplied.

Hussaini and Jang [1] reviewed the role of astrocyte, which has recently gained attention, in the onset of neurological diseases, while Lee et al. [2] presented and discussed presynaptic dysfunction as a cause of Parkinson disease. In addition, BubR1 insufficiency was suggested as the cause of affective behavior and memory impairments [3].

Treatment modalities for neurological diseases include stem cells, drugs, or alternative and complementary treatments such as exercise. Lim et al. [4] used human turbinate-derived mesenchymal stem cells for the brain stroke. Among the diverse actions of dexmedetomidine, the possibility of treatment for depression by sleep deprivation was studied [5]. The effect of treadmill running on Purkinje cell loss in Parkinson disease [6] and the mechanism of treadmill exercise to overcome short-term memory impairments in cerebral palsy were also suggested [7].

As can be seen in the poster topic “Knowing Brain Healing Brain,” of an academic society, many studies are being done to overcome brain diseases. Management of neurological diseases is important because it affects the quality of life and survival of patients, furthermore, neurological diseases also cause secondary peripheral diseases including urological diseases.

For this reason, the *International Neurology Journal* published a special issue for neurological diseases to achieve a fundamental approach for urologic diseases. I would like to thank

the authors for contributing valuable articles and hope that this chance will provide a new perspective in the urology field.

• **Conflict of Interest:** No potential conflict of interest relevant to this article was reported.

## REFERENCES

1. Hussaini SM, Jang MH. New roles for old glue: astrocyte function in synaptic plasticity and neurological disorders. *Int Neurol J* 2018;22 Suppl 3:S106-14.
2. Lee W, Koh S, Hwang S, Kim SH. Presynaptic dysfunction by familial factors in Parkinson disease. *Int Neurol J* 2018;22 Suppl 3:S115-21.
3. Cho CH, Yang Z, Yoo KH, Oliveros A, Jang MH. BubR1 insufficiency impairs affective behavior and memory function in mice. *Int Neurol J* 2018;22 Suppl 3:S122-30.
4. Lim H, Park SH, Kim SW, Cho KO. Therapeutic potential of human turbinate-derived mesenchymal stem cells in experimental acute ischemic stroke. *Int Neurol J* 2018;22 Suppl 3:S131-8.
5. Moon EJ, Ko IG, Kim SE, Jin JJ, Hwang L, Kim CJ, et al. Dexmedetomidine ameliorates sleep deprivation-induced depressive behaviors in mice. *Int Neurol J* 2018;22 Suppl 3:S139-46.
6. Lee JM, Kim TW, Park SS, Han JH, Shin MS, Lim BV, et al. Treadmill exercise improves motor function by suppressing Purkinje cell loss in Parkinson disease rats. *Int Neurol J* 2018;22 Suppl 3:S147-55.
7. Cho JW, Jung SY, Kim DY, Chung YR, Choi HH, Jeon JJ, et al. PI3K-Akt-Wnt pathway is implicated in exercise-induced improvement of short-term memory in cerebral palsy rats. *Int Neurol J* 2018;22 Suppl 3:S156-64.



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