



Pathogenesis and Molecular Treatment Strategies of Diabetic Neuropathy 2.0

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Diabetic peripheral neuropathy (DPN), one of the major chronic complications of diabetes mellitus, is characterized by nerve-length-dependent depletion of peripheral sensory, motor, and autonomic nerve fibers, and its progression can result in serious consequences such as lower limb amputation and lethal arrhythmia. It is recognized that both metabolic and microvascular abnormalities are involved in the development of DPN, but no effective therapies have yet been established. The aim of this Special Issue is to introduce molecular mechanisms of how hyperglycemia and impaired insulin actions lead to DPN, as well as therapeutic strategies based on those mechanisms.

Topics of this Special Issue include, but are not limited to:

- Collateral glucose-utilizing pathways (polyol pathway, hexosamine pathway, protein kinase C pathway, and AGEs pathway);
- Oxidative stress and ER stress;
- Impaired actions of neurotrophic molecules;
- Microinflammation;
- Microvasculature and blood–nerve barrier;
- Genomic, proteomic, and metabolomic databases and applications;
- Therapeutic approaches utilizing cell transplantation.





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Message from the Editor-in-Chief

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