

Special Issue

The Pathogenesis and Therapeutic Strategies for Understanding and Treating Diabetic Neuropathy of the Retina

Message from the Guest Editor

There is growing evidence that not only vascular abnormalities but also neuronal abnormalities, including retinal neuronal cell death, are associated with the pathogenesis of diabetic retinopathy. Neuronal cell death is an irreversible change and directly leads to vision loss in diabetic patients. In addition, numerous studies have demonstrated that retinal ganglion cell axons and dendrites are degenerated in the early stage of diabetes. The ultimate purpose of the therapies for patients with diabetic retinopathy is to protect their visual function by neuroprotection, axonal protection, and regeneration. Thus, some clues to determine the pathogenesis of the development and the progression of diabetic neuropathy in the retina must be obtained from other acute injury models such as ischemia and physical injury models. Therefore, in this Special Issue, we welcome articles from wide areas of neuroscience that are able to provide clues to determine the pathogenesis of diabetic neuropathy in the retina and to apply therapeutic strategies for the neuroprotection and regeneration of the neurons damaged by diabetic retinopathy.

Guest Editor

Dr. Toshiyuki Oshitari

Department of Ophthalmology and Visual Science, Chiba University Graduate School of Medicine, Inohana 1-8-1, Chuo-ku, Chiba 260-8670, Japan

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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