

Special Issue on  
**Diabetic Retinopathy**

# CALL FOR PAPERS

The global epidemic of diabetic retinopathy, a leading cause of blindness in the working age population, is expected to have an increasingly significant impact within societies worldwide. Meanwhile, new concepts regarding the pathogenesis and anatomical changes in the diabetic retina have been translated to potential therapies for this sight-threatening condition. Diabetic retinopathy is no longer understood as merely a microvascular complication of diabetes. It is a disease of the whole retina in the setting of diabetes, in which vascular and neural cells form the diseased units within a larger glial network. Therefore, diabetic retinopathy is not only a microangiopathy, but also a neuropathy. Hyperglycemia, the key clinical feature of diabetes, induces abnormal biochemical pathways leading to retinal inflammation and cellular apoptosis. As the vascular cells in the diabetic retina lose their regenerative capacity, pathological neovascularization ensues.

Achievements in clinical and basic research in recent decades have prompted a greater understanding of the layer-specific and zone-specific anatomy and pathology in diabetic retinas. Therefore, novel pharmacological therapy and potentially effective stem-cell and gene therapies are emerging rapidly.

We invite investigators in basic science and clinical research to contribute review articles and original papers describing recent advances in diabetic retinopathy.

Potential topics include but are not limited to the following:

- ▶ Mechanistic and “proof-of-concept” studies of diabetic retinopathy
- ▶ Pathophysiological studies on retinal neuropathy and microangiopathy in diabetes
- ▶ Regulation of inflammatory and apoptotic pathways in the diabetic retina
- ▶ Translational medicine and novel treatments for diabetic retinopathy, particularly pharmacological therapies, regenerative medicine, and gene therapies
- ▶ Applications of advance in technology for diabetic retinopathy
- ▶ Management algorithms in diabetic macular edema and diabetic retinopathy

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jdr/dbrp/>.

**Lead Guest Editor**

Weiye Li, Drexel University,  
Philadelphia, USA  
[weiye.li@drexelmed.edu](mailto:weiye.li@drexelmed.edu)

**Guest Editors**

Lisa Hark, Thomas Jefferson University,  
Philadelphia, USA  
[lhark@willseye.org](mailto:lhark@willseye.org)

Jason Hsu, Thomas Jefferson University,  
Philadelphia, USA  
[jhsu@midatlanticretina.com](mailto:jhsu@midatlanticretina.com)

Guotong Xu, Tongji University,  
Shanghai, China  
[gtxu@tongji.edu.cn](mailto:gtxu@tongji.edu.cn)

Jingfa Zhang, Tongji University,  
Shanghai, China  
[jingfazhang@tongji.edu.cn](mailto:jingfazhang@tongji.edu.cn)

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