

Special Issue

Pharmacotherapy for Retinopathy

Message from the Guest Editor

The mechanisms underlying retinopathy of prematurity (ROP) development, progression and recurrence have not been fully elucidated. As with most pathologic proliferative retinal vascular diseases, the blockage of vascular endothelial growth factor (VEGF) by an intravitreal injection has become the mainstay of treatment. Several anti-VEGF agents are in use for aggressive posterior ROP, and trials have indicated non-inferiority to laser photocoagulation. Although anatomic and functional outcomes may be improved with pharmacotherapy, recurrences are common, unpredictable and may lead to blindness. Furthermore, the disease presents lifelong risks of visual loss. In furtherance of advancing ROP treatment, we wish to better understand the role of VEGF blockade, the precise molecular switching mechanisms at play, inducible-factor interactions, nutrition and tissue-constitutive factors that play a role in the complex formation of pathologic neovascularization in ROP.

Guest Editor

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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