



Studies on Retinal and Choroidal Disorders (Oxidative Stress in Applied Basic Research and Clinical Practice)

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Studies on Retinal and Choroidal Disorders examines the role that oxidative and nitrosative stress plays in the complex physiology and pathophysiology of the retina and choroid. Both the basic science researcher and the clinical practitioner can use this book as a guide to the current understanding of retinal and choroidal cellular mechanisms involved in aging and disease. Beginning with a review of oxidative stress and inflammation in the pathoetiology of AMD and a review of the complement system in the retina, the book then takes a detailed look at oxidative stress in lipid metabolism and oxidized lipoproteins in the retina. It examines the anti-apoptotic activity of α -crystallins in the presence of glutathione, oxidative stress in the mitochondria and endoplasmic reticulum, the role of iron in retinal disease, the mechanisms of pathological VEGF expression, NAPDH oxidase mechanisms, and Hepatocyte Growth Factor in oxidative stress in the retina.

A detailed look at the $Ccl2^{-/-}/Cx3cr1^{-/-}$ mouse model of AMD follows. Then a detailed examination of the systemic changes in AMD is followed by a discussion of cerium oxide nanoparticle reduction of oxidative stress. Two chapters discuss progenitor cells in the cause and treatment of retinal diseases including AMD and diabetic retinopathy. Natural compounds in the prevention and treatment of retinal diseases are exhaustively presented, followed by a chapter on serotonin 5-HT_{1A} receptor agonists in oxidative stress of the retina. The current anti-VEGF treatment strategies of neovascular AMD are then given. The volume continues with a detailed look at nitric oxide and inducible nitric oxide synthase in retinal vascular disease, an explanation of an *in vivo* technique of studying the effect of lipid hydroperoxides on circulating leucocytes in the retina, an excellent review of oxidative stress in retinopathy of prematurity, and a look at VEGF induced oxidative stress in the retinal ganglion cell. The book ends with a detail examination of the role of carotenoids in retinal health and disease. These 31 chapters summarize what is known about oxidative stress in retinal and choroidal disorders. All those involved with degenerative diseases of the eye will find *Studies on Retinal and Choroidal Disorders* to be illuminating and comprehensive.

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