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Gene Mutations in Retinal Dystrophies

Guest Editors:

Prof. Dr. Benedetto Falsini
1. Ophthalmology Unit, Fondazione Policlinico Universitario A. Gemelli IRCCS, 00168 Rome, Italy
2. Ophthalmology Unit, Catholic University "Sacro Cuore", 00168 Rome, Italy

Dr. Emiliano Giardina
1. Genomic Medicine Laboratory UILDM, Santa Lucia Foundation, 00142 Rome, Italy
2. Forensic Genetics Laboratoty, Department of Biomedicine and Prevention, Tor Vergata University, 00133 Rome, Italy

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Message from the Guest Editors

Since the early nineties, the discovery of genes implicated in IRDs has been tumultuous and has led to the identification of many disease genes, whose role in the phototransduction, visual cycle and structure of photoreceptor cells and protein trafficking in retinal cells has been progressively elucidated. Gene discovery has been pivotal in obtaining a better understanding of retinal physiology and, most importantly, for the development of therapeutic strategies for an increasing number of IRD subtypes. The focus of this Special Issue is on the gene mutations in inherited retinal dystrophies (IRD). Studies on new genes responsible for IRDs or studies on new mutations in known genes and their consequences on the physiology of retinal cells will be given special consideration. Studies on the interactions among genes and the mutational burden on disease phenotype will be also of specific interest for this Special Issue. In the hope that this Special Issue will help to expand the knowledge in the important field of genetics of IRD, we invite contributions from the laboratories and researchers engaged in this fascinating field of science.

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Editors-in-Chief

Prof. Dr. Peter E. Nielsen
Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan
Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

Message from the Editorial Board

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Contact Us

Biomolecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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