

1. Record Nr.	UNINA9910350239203321
Titolo	Advances in Vision Research, Volume II : Genetic Eye Research in Asia and the Pacific // edited by Gyan Prakash, Takeshi Iwata
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-0884-5
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (464 pages)
Collana	Essentials in Ophthalmology, , 2196-890X
Disciplina	617.7042
Soggetti	Ophthalmology Medical genetics Medical Genetics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Foreword -- Chapter 1: Update on Asian Eye Genetics Consortium (AEGC) -- Chapter 2: A Bibliometric Analysis of AEGC Publications -- Chapter 3: Opportunity for population based eye research in Asia and the Middle East: An NGO perspective -- Chapter 4 eyeGENE®: A model for advancing research of rare, inherited eye conditions through biobanking and data sharing -- Chapter 5: Inherited Ocular Disease in the New Zealand Mori; Novel genetic mechanisms and founder effects -- Chapter 6: Genetics of ocular diseases in Malaysia -- Chapter 7: Challenges and Opportunities in Genetic Research from the Perspective of a Tertiary Eye Care Hospital in Bangladesh -- Chapter 8: Genetic Research on Ocular Health and Disease in a Population from Nepal -- Chapter 9: The beginnings of genetic eye research in the Philippines: Case studies and a research center development framework -- Chapter 10: Hereditary Eye Disease in Ningxia Hui Autonomous Region of China -- Chapter 11: Ophthalmic Genetics in India; From Tentative Beginnings in the 1980s to Major Achievements in the 21st century -- Chapter 12: Panel-Based Next-Generation Sequencing for Inherited Retinal Degenerations in Koreans -- Chapter 13: Genetic Disease in Ophthalmology: Health Care and Research Opportunity in Bangladesh -- Chapter 14: Update on Japan Eye Genetics Consortium -- Chapter 15: Genetics and susceptibility of retinal eye diseases in India -- Chapter 16: Unique Patient Populations in Asia for Genetic Eye Research

-- Chapter 17: Retina Genes in Chinese -- Chapter 18: Leber Congenital Amaurosis in Asia -- Chapter 19: The genetics of inherited retinal diseases in the Israeli and Palestinian populations: a lesson from populations with high consanguinity levels -- Chapter 20: Occult Macular Dystrophy -- Chapter 21: Adeno-Associated Virus (AAV) Mediated Gene Therapy for Leber Hereditary Optic Neuropathy -- Chapter 22: Stargardt disease in Asian population -- Chapter 23 Retinoblastoma Genes in Chinese Studies -- Chapter 24: Genetics of Retinoblastoma: Basic Research and Clinical Applications -- Chapter 25: Genotype-Phenotype correlation in retinal degenerations -- Chapter 26: Cyp1B1 gene in Primary Congenital Glaucoma" and "Genetic Analysis of LCA in Indonesian patients -- Chapter 27: "Diabetic Retinopathy: Clinical, Genetic and Health Economics-An Asian Perspective" -- Chapter 28: Quantitative Trait for Glaucoma -- Chapter 29: Genetics of Exfoliation Syndrome in Asians -- Chapter 30: Proteomics of Neurodegenerative Disorders of the Eye -- Chapter 31: Genomic Approaches to Eye Diseases: An Asian Perspective -- Chapter 32: Myopia genes in Asians -- Chapter 33: Keratoconus Genes in Chinese -- Chapter 34 Granular corneal dystrophy type 2: Prevalence in Korea, Molecular Cell Biology and trials for the treatment -- Chapter 35: Glaucoma Genes in East Asian Studies -- Chapter 36: Clinical Genetics of Vitelliform Macular Dystrophy: An Asian Perspective.

Sommario/riassunto

This second volume continues with a focus on the state of the art in genetic eye research in Asia and the Pacific. Though there has been an explosion of information on genetic eye research in western countries, more than sixty percent of the human genes involved in eye diseases in the Asian and Pacific population remain unknown. However, new efforts and a new awareness have sparked important discussions on the subject, and new plans are being implemented to discover the genes responsible for many eye diseases in the population. The book reviews the latest findings; its content ranges from genetic aspects of human migration to DNA sequence analysis, genome-wide association analysis, and disease phenotypes. The efforts of the Asian Eye Genetic Consortium (AEGC) are also discussed. The book's editors have been instrumental in developing strategies for discovering the new Asian genes involved in many eye diseases. All chapters were written by leading researchers working on Asian eye genetics from the fields of Human Genetics, Ophthalmology, Molecular Biology, Biochemistry, Sensory Sciences, and Clinical Research. *Advances in Vision Research, Volume II* will prove to be a major resource for all researchers, clinicians, clinical researchers, and allied eye health professionals with an interest in eye diseases among the Asian population.