1. Record Nr. UNINA9910254468603321 Advances in Vision Research, Volume I: Genetic Eye Research in Asia Titolo and the Pacific / / edited by Gyan Prakash, Takeshi Iwata Tokyo:,: Springer Japan:,: Imprint: Springer,, 2017 Pubbl/distr/stampa **ISBN** 4-431-56511-6 Edizione [1st ed. 2017.] 1 online resource (XV, 523 p. 71 illus., 55 illus. in color.) Descrizione fisica Essentials in Ophthalmology, , 1612-3212 Collana Disciplina 617.7 Soggetti Ophthalmology Human genetics **Human Genetics** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Includes bibliographical references at the end of each chapters and Nota di bibliografia index. Nota di contenuto 1. Foundation of Asian Eye Genetics Consortium (AEGC) (Gyan Prakash, Takeshi Iwata) -- 2. Japan consortium for whole exome analysis of hereditary retinal diseases (Takeshi Iwata) -- 3. Whole-genome sequencing in genetic eye diseases in China (Zi-bing Jin) -- 4. Targeted exome sequencing in Japanese patients with Retinitis Pigmentosa (Maho Oishi, Akio Oishi, Nagahisa Yoshimura) -- 5. Genetic Epidemiology of Congenital Cataracts and Autosomal Recessive Retinal Degenerations in Pakistan (Fielding Heitmancik, Qiwei Wang, Yabin

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Sommario/riassunto

This book presents 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 I 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.