
Contents

1 Johannes Kepler and René Descartes: A Retinal Image is Transmitted to the Brain.	1
Ronald S. Fishman	
2 Jacques Daviel: The Invention of Modern Cataract Surgery . .	11
Daniel M. Albert	
3 John Dalton: The Recognition of Color Deficiency	23
Michael F. Marmor	
4 Thomas Young: The Foundations of Light, Color, and Optics	35
John W. Gittinger Jr.	
5 Valentin Haüy and Louis Braille: Enabling Education for the Blind.	45
Alan R. Morse	
6 Jan Evangelista Purkinje: Visual Physiologist	65
Gerald A. Fishman and Marlene Fishman	
7 Franciscus Donders: The Management of Anomalies of Refraction	77
David G. Harper	
8 Hermann von Helmholtz: The Power of Ophthalmoscopy . . .	85
James G. Ravin	
9 Albrecht von Graefe: The Beginnings of Scientific Ophthalmology and Education	95
Steven A. Newman	
10 Karl Koller: The Introduction of Local Anesthesia	117
Ronald S. Fishman	
11 Allvar Gullstrand: Dioptrics of the Eye and the Slit Lamp	129
Richard Keeler	
12 Marie Curie: Radiation as a Medium That Can Cure	145
Jasmine H. Francis	

13 Jules Gonin: Proving the Cause and Cure of Retinal Detachment	157
Michael F. Marmor and Balder P. Gloor	
14 Harold Ridley: The Development of a Plastic Implantable Lens	169
Curtis E. Margo	
15 Arnall Patz and Norman Alston: Oxygen and Retinopathy of Prematurity	183
Monte D. Mills and Graham E. Quinn	
16 Charles Kelman: Phacoemulsification and Small Incision Cataract Surgery	199
Norman B. Medow	
Name Index	209
Subject Index	215

Foundations of Ophthalmology

Great Insights that Established the Discipline

Marmor, M.; Albert, D.M. (Eds.)

2017, X, 221 p. 155 illus., 55 illus. in color., Hardcover

ISBN: 978-3-319-59640-2