The field of strabismology has long suffered from a discrepancy between its levels of sophistication in practice and theory. Although its diagnostic and therapeutic armamentarium has become quite advanced, the scientific understanding of disease pathogenesis has remained rudimentary. Consequently, educational training in strabismus diagnosis and treatment has become a didactic exercise in “learning the rules.”

Recent advances in epidemiology, neuroimaging, genetics, and neurobiology have revolutionized our understanding of strabismus. Conceptualizing strabismus within an evolutionary framework has advanced our understanding of why it arises and provided new clues to its neurological underpinnings. As new information is consolidated, we are beginning to formulate a unified philosophy of strabismus that integrates new concepts of pathogenesis into the clinic.

This book provides a compendium of chapters that highlight new ideas in the field of strabismus. We have assembled an international panel of contributors who have advanced our understanding of strabismus pathogenesis. Some chapters are new while others are derived from recent seminal articles that have challenged our understanding of strabismus diagnosis and treatment. Original sources for these chapters are appropriately acknowledged. We thank our innovative authors for their important contributions, and hope that the reader finds this edition both stimulating and enlightening.

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