

# Contents

Preface	vii
Introduction: Visual Lessons and the Life Sciences NANCY ANDERSON AND MICHAEL R. DIETRICH	1
1. Trained Judgment, Intervention, and the Biological Gaze: How Charles Sedgwick Minot Saw Senescence MARA MILLS	14
2. Facing Animals in the Laboratory: Lessons of Nineteenth- Century Medical School Microscopy Manuals NANCY ANDERSON	44
3. Photography and Medical Observation SCOTT CURTIS	68
4. Cinematography without Film: Architectures and Technologies of Visual Instruction in Biology around 1900 HENNING SCHMIDGEN	94
5. Cinema as Universal Language of Health Education: Translating Science in <i>Unhooking the Hookworm</i> (1920) KIRSTEN OSTHERR	121
6. Screening Science: Pedagogy and Practice in William Dieterle's Film Biographies of Scientists T. HUGH CRAWFORD	141

7. Optical Constancy, Discontinuity, and Nondiscontinuity in the Eameses' <i>Rough Sketch</i> MICHAEL J. GOLEC	162
8. Educating the High-Speed Eye: Harold E. Edgerton's Early Visual Conventions RICHARD L. KREMER	186
9. On Fate and Specification: Images and Models of Developmental Biology SABINE BRAUCKMANN	213
10. Form and Function: A Semiotic Analysis of Figures in Biology Textbooks LAURA PERINI	235
11. Neuroimages, Pedagogy, and Society ADINA L. ROSKIES	255
12. The Anatomy of a Surgical Simulation: The Mutual Articulation of Bodies in and through the Machine RACHEL PRENTICE	277
Contributors	311
Index	315