Contents

Preface vii

Introduction: Visual Lessons and the Life Sciences 1
NANCY ANDERSON AND MICHAEL R. DIETRICH

1. Trained Judgment, Intervention, and the Biological Gaze: 14
How Charles Sedgwick Minot Saw Senescence
MARA MILLS

2. Facing Animals in the Laboratory: Lessons of Nineteenth-Century Medical School Microscopy Manuals 44
NANCY ANDERSON

3. Photography and Medical Observation 68
SCOTT CURTIS

4. Cinematography without Film: Architectures and Technologies of Visual Instruction in Biology around 1900 94
HENNING SCHMIDGEN

5. Cinema as Universal Language of Health Education: 121
Translating Science in Unhooking the Hookworm (1920)
KIRSTEN OSTHERR

6. Screening Science: Pedagogy and Practice in William 141
Dieterle’s Film Biographies of Scientists
T. HUGH CRAWFORD