

Contents

I Introduction 1

- 1 *From Heredity to Genetics: Political, Medical, and Agro-Industrial Contexts* 3
Staffan Müller-Wille and Christina Brandt

II Genealogy, Kinship, and Population 27

- 2 *The Bachelor: A Case of Failed Generativity in Nineteenth-Century Literature and Science* 29
Ulrike Vedder
- 3 *Eugenics without Eugenists? Anglo-American Critiques of Cousin Marriage in the Nineteenth and Early Twentieth Centuries* 49
Diane B. Paul and Hamish G. Spencer
- 4 *Asylums of Hereditary Research in the Efficient Modern State* 81
Theodore M. Porter
- 5 *The Emancipatory Power of Heredity: Anthropological Discourse and Jewish Integration in Germany, 1892–1935* 111
Veronika Lipphardt

III Heredity, Evolution, and Reproduction 141

- 6 *Heredity before Genetics* 143
Hans-Jörg Rheinberger and Staffan Müller-Wille
- 7 *Natural Selection, Regression, and Heredity in Darwinian and Post-Darwinian Evolutionary Theory* 167
Jean Gayon
- 8 *Concepts of Gender Difference in Genetics* 189
Helga Satzinger

IV Heredity in Agro-Industrial Contexts 211

- 9** *Pure Lines as Industrial Simulacra: A Cultural History of Genetics from Darwin to Johannsen* 213

Christophe Bonneuil

- 10** *Message in a Bottle: Vaccines and the Nature of Heredity after 1880* 243

J. Andrew Mendelsohn

- 11** *Clonal Patents: A Convergence of Heredity and Invention* 265

Alain Pottage

V Heredity in Medical Contexts 283

- 12** *The Prenatal: Contingencies of Procreation and Transmission in the Nineteenth Century* 285

Caroline Arni

- 13** *The Hereditary Transmission of Human Pathologies between 1900 and 1940: The Good Reasons Not to Become "Mendelian"* 311

Jean-Paul Gaudillière and Ilana Löwy

- 14** *In Search of the Ideal Population: The Study of Human Heredity before and after the Mendelian Break* 337

Bernd Gausemeier

VI Mendelism 365

- 15** *Revisiting the Origins of Genetics* 367

Staffan Müller-Wille and Marsha L. Richmond

- 16** *Transatlantic Mutants: Evolution, Epistemics, and the Engineering of Variation, 1903–1930* 395

Luis Campos and Alexander von Schwerin

- 17** *"Pure Lines" in the Laboratory: Protozoa as Research Models in Early Twentieth Century Heredity Studies* 417

Christina Brandt and Judy Johns Schloegel

About the Authors 447

Index 453