

CAMBRIDGE LIBRARY COLLECTION

Books of enduring scholarly value

Darwin

Two hundred years after his birth and 150 years after the publication of 'On the Origin of Species', Charles Darwin and his theories are still the focus of worldwide attention. This series offers not only works by Darwin, but also the writings of his mentors in Cambridge and elsewhere, and a survey of the impassioned scientific, philosophical and theological debates sparked by his 'dangerous idea'.

The Descent of Man and Selection in Relation to Sex

In his Introduction to this book, Darwin reveals that for many years he had no intention of publishing his notes on the descent of man, 'as I thought that I should thus only add to the prejudices against my views'. By 1871, however, he felt that his fellow scientists, 'especially the younger and rising naturalists', would show a greater openness of mind to arguments for natural selection, even when taken to their logical conclusion and applied to the descent of man from the apes – the aspect of his theory which had been so widely mocked since the notorious question asked by Bishop Samuel Wilberforce at the British Association Oxford debate of 1860: was it through his grandmother or his grandfather that Thomas Huxley, Darwin's champion, considered himself descended from a monkey? In fact, the book's focus on the area of sexual selection and the evolutionary importance of secondary sexual characteristics across the whole of the animal kingdom meant that the book was received without the public outrage that Darwin had feared.



Cambridge University Press has long been a pioneer in the reissuing of out-of-print titles from its own backlist, producing digital reprints of books that are still sought after by scholars and students but could not be reprinted economically using traditional technology. The Cambridge Library Collection extends this activity to a wider range of books which are still of importance to researchers and professionals, either for the source material they contain, or as landmarks in the history of their academic discipline.

Drawing from the world-renowned collections in the Cambridge University Library, and guided by the advice of experts in each subject area, Cambridge University Press is using state-of-the-art scanning machines in its own Printing House to capture the content of each book selected for inclusion. The files are processed to give a consistently clear, crisp image, and the books finished to the high quality standard for which the Press is recognised around the world. The latest print-on-demand technology ensures that the books will remain available indefinitely, and that orders for single or multiple copies can quickly be supplied.

The Cambridge Library Collection will bring back to life books of enduring scholarly value across a wide range of disciplines in the humanities and social sciences and in science and technology.



The Descent of Man and Selection in Relation to Sex

VOLUME 1

CHARLES DARWIN





CAMBRIDGE UNIVERSITY PRESS

Cambridge New York Melbourne Madrid Cape Town Singapore São Paolo Delhi

Published in the United States of America by Cambridge University Press, New York

www.cambridge.org Information on this title: www.cambridge.org/9781108005098

© in this compilation Cambridge University Press 2009

This edition first published 1871 This digitally printed version 2009

ISBN 978-1-108-00509-8

This book reproduces the text of the original edition. The content and language reflect the beliefs, practices and terminology of their time, and have not been updated.



THE DESCENT OF MAN,

AND

SELECTION IN RELATION TO SEX.



THE

DESCENT OF MAN,

AND

SELECTION IN RELATION TO SEX.

BY CHARLES DARWIN, M.A., F.R.S., &c.

IN TWO VOLUMES.-Vol. I.

WITH ILLUSTRATIONS.

LONDON:

JOHN MURRAY, ALBEMARLE STREET.

1871.

[The right of Translation is reserved.]



BY THE SAME AUTHOR.

- ON THE ORIGIN OF SPECIES BY MEANS OF NATURAL SELECTION; or, THE PRESERVATION OF FAVOURED RACES IN THE STRUGGLE FOR LIFE; Fifth Edition (Tenth Thousand), with Additions and Corrections.

 MURRAY.
- THE VARIATION OF ANIMALS AND PLANTS UNDER DOMESTICATION. In two vols. With Illustrations. 1868. MURRAY.
- ON THE VARIOUS CONTRIVANCES BY WHICH BRITISH AND FOREIGN ORCHIDS ARE FERTILISED BY INSECTS; and on the GOOD EFFECTS OF CROSSING. With numerous Woodcuts.
- A NATURALIST'S VOYAGE ROUND THE WORLD; or, A JOURNAL OF RESEARCHES INTO THE NATURAL HISTORY AND GEOLOGY OF THE COUNTRIES visited during the voyage of H.M.S. 'Beagle,' under the command of Captain FitzRoy, R.N. Eleventh Thousand.
- ON THE STRUCTURE AND DISTRIBUTION OF CORAL REEFS. SMITH, ELDER, & CO.
- GEOLOGICAL OBSERVATIONS ON VOLCANIC ISLANDS.

 SMITH, ELDER, & CO.
- GEOLOGICAL OBSERVATIONS ON SOUTH AMERICA.

 Smith, Elder, & Co.
- A MONOGRAPH OF THE CIRRIPEDIA. With numerous lilustrations. 2 vols. 8vo. HARDWICKE.
- ON THE MOVEMENTS AND HABITS OF CLIMBING PLANTS. With Woodcuts. WILLIAMS & NORGATE.



CONTENTS.

PART I.

ON THE DESCENT OF MAN.

CHAPTER I.

THE EVIDENCE OF THE DESCENT OF MAN FROM SOME LOWER FORM.

Nature of the evidence bearing on the origin of man—Homologous structures in man and the lower animals—Miscellaneous points of correspondence—Development—Rudimentary structures, muscles, sense-organs, hair, bones, reproductive organs, &c.—The bearing of these three great classes of facts on the origin of man 9-33

CHAPTER II.

Comparison of the Mental Powers of Man and the Lower Animals.

The difference in mental power between the highest ape and the lowest savage, immense—Certain instincts in common—The emotions—Curiosity—Imitation—Attention—Memory—Imagination—Reason—Progressive improvement—Tools and weapons used by animals—Language—Self-consciousness—Sense of beauty—Belief in God, spiritual agencies, superstitions

34-69

CHAPTER III.

Comparison of the Mental Powers of Man and the Lower Animals—continued.

The moral sense—Fundamental proposition—The qualities of social animals — Origin of sociability—Struggle between opposed instincts—Man a social animal—The more enduring social instincts



vi CONTENTS OF VOL. I.

conquer other less persistent instincts—The social virtues alone regarded by savages—The self-regarding virtues acquired at a later stage of development—The importance of the judgment of the members of the same community on conduct—Transmission of moral tendencies—Summary ... Page 70-106

CHAPTER IV.

On the Manner of Development of Man from some Lower Form.

CHAPTER V.

On the Development of the Intellectual and Moral Faculties during Primeyal and Civilised Times.

CHAPTER VI.

On the Affinities and Genealogy of Man.

Position of man in the animal series—The natural system genealogical—Adaptive characters of slight value—Various small points of resemblance between man and the Quadrumana—Rank of man in the natural system—Birthplace and antiquity



CONTENTS OF VOL. I.

vii

CHAPTER VII.

On the Races of Man.

The nature and value of specific characters—Application to the races of man — Arguments in favour of, and opposed to, ranking the so-called races of man as distinct species—Sub-species—Monogenists and polygenists—Convergence of character—Numerous points of resemblance in body and mind between the most distinct races of man—The state of man when he first spread over the earth—Each race not descended from a single pair—The extinction of races—The formation of races—The effects of crossing—Slight influence of the direct action of the conditions of life—Slight or no influence of natural selection—Sexual selection.

214-250

PART II.

SEXUAL SELECTION.

CHAPTER VIII.

PRINCIPLES OF SEXUAL SELECTION.

Secondary sexual characters—Sexual selection—Manner of action

— Excess of males — Polygamy — The male alone generally
modified through sexual selection—Eagerness of the male—
Variability of the male—Choice exerted by the female—Sexual
compared with natural selection—Inheritance at corresponding
periods of life, at corresponding seasons of the year, and as limited
by sex—Relations between the several forms of inheritance—
Causes why one sex and the young are not modified through
sexual selection—Supplement on the proportional numbers of
the two sexes throughout the animal kingdom—On the limitation of the numbers of the two sexes through natural selection

253-320



viii

CONTENTS OF VOL. I.

CHAPTER IX.

SECONDARY SEXUAL CHARACTERS IN THE LOWER CLASSES OF THE ANIMAL KINGDOM.

CHAPTER X.

SECONDARY SEXUAL CHARACTERS OF INSECTS.

CHAPTER XI.

INSECTS, continued.—ORDER LEPIDOPTERA.