

**THE EVOLUTION OF MAN; A
SERIES OF LECTURES DELIVERED
BEFORE THE YALE CHAPTER OF
THE SIGMA XI DURING THE
ACADEMIC YEAR 1921-1922**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649171378

The evolution of man; a series of lectures delivered before the Yale chapter of the Sigma xi during the academic year 1921-1922 by Various

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THE EVOLUTION OF MAN



Fig. 1. Above, skull from La Chapelle-aux-Saints representing Neanderthal man. Restored by McGregor. R, portion restored. Below, skull from Grotte des Enfants, representing Crô-Magnon man. After Verneau. Reproduced by courtesy of Professors J. H. McGregor and W. K. Gregory.

UNIV. OF
CALIFORNIA

The Evolution of Man

*A Series of Lectures Delivered before the
Yale Chapter of the Sigma Xi during the
Academic Year 1921-1922*

By

Richard Swann Lull

Harry Burr Ferris

George Howard Parker

James Rowland Angell

Albert Galloway Keller

Edwin Grant Conklin

Edited by George Alfred Batsell



NEW HAVEN

YALE UNIVERSITY PRESS

London : Humphrey Milford : Oxford University Press

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THE
ANATOMICAL
AMERICAN

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First published, October, 1922
Second printing, December, 1922

Dental Dept

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PREFACE

The contents of this book have as their basis a series of lectures bearing the same title which were given at Yale University, during the academic year 1921-1922, under the auspices of the Society of the Sigma Xi. As President of the Yale Chapter for that year it became my duty to arrange the program for the Society, and after considerable thought I came to the conclusion that the previous successful series of Sigma Xi lectures, which were given in 1916-1917, and later published by the Yale University Press, on "The Evolution of the Earth and Its Inhabitants," could be continued with interest and profit by another series in which specific consideration was given to the question of the evolution of man. Accordingly a series of lectures was arranged as follows:

THE EVOLUTION OF MAN

- Lecture I. The Antiquity of Man, December 2, 1921, *Professor Richard Swann Lull.*
- Lecture II. The Natural History of Man, January 20, 1922, *Professor Harry Burr Ferris.*
- Lecture III. The Evolution of the Nervous System of Man, February 10, 1922, *Professor George Howard Parker.*
- Lecture IV. The Evolution of Intelligence, April 11, 1922, *President James Rowland Angell.*
- Lecture V. Societal Evolution, March 10, 1922, *Professor Albert Galloway Keller.*
- Lecture VI. The Trend of Evolution, March 22, 1922, *Professor Edwin Grant Conklin.*

The first lecture, by Professor Lull, sets forth the paleontological evidence for the evolution of man. In the second, Professor Ferris gives in detail, largely from the anatomical and embryological standpoints, some of the important

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evidence for evolution which is to be found in the development and structure of present-day man. The third and fourth lectures, by Professor Parker and President Angell respectively, constitute a unit in which the evolution of the highly specialized and preëminent nervous system of man together with the development of intelligence are given consideration. Professor Keller, in the fifth chapter, presents the question of evolution in the various institutions of human society, and, finally, Professor Conklin sets forth his views with regard to the trend, or future, of evolution. The large attendance at each of the lectures is sufficient evidence of the extreme interest in the question of the evolution of man, and it is hoped that the publication of this book will stimulate an even greater interest in this very important subject. It is believed that the main scientific facts which bear upon the question are here presented from a modern viewpoint in an interesting as well as authoritative manner.

In conclusion, as President of the Society and editor of this volume, I desire to express my deep gratitude to the authors for their willingness to take the time and energy to prepare the lectures and to arrange their manuscripts for publication; to the officers, committees, and members of the Yale Chapter of Sigma Xi who by their enthusiastic coöperation made it possible to carry through the year's program successfully; to my colleagues in the Department of Zoölogy and elsewhere in the University, who have shown their active interest in the project in many ways, and, finally, to the Yale University Press for the splendid attitude they have shown in all matters connected with the publication of this volume.

GEORGE A. BAITSELL,
President, Yale Chapter, Sigma Xi.
1921-1922.

*Osborn Zoölogical Laboratory,
Yale University, July, 1922.*

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