THE EVOLUTION OF PLANTS

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649171934

The evolution of plants by Dukinfield Henry Scott

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd. Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

DUKINFIELD HENRY SCOTT

THE EVOLUTION OF PLANTS



HOME UNIVERSITY LIBRARY OF MODERN KNOWLEDGE

No. 9

Kdisara :

HERBERT FISHER, M.A., P.B.A.
PROF. GUIDERT MURKAY, LITT.D.,
LI., D., F.B.A.
PROF. J. ARTHUR THOMSON, M.A.
PROF. WILLIAM T. HERWSTER, M.A.

THE HOME UNIVERSITY LIBRARY OF MODERN KNOWLEDGE

VOLUMES NOW READY

HISTORY OF WAR AND PEACE .	G. H. Pennen
POLAR EXPLORATION	Da. W.S. Ducce, LL. D., F.R.S.R.
THE FRENCH REVOLUTION	HILARR BRIDGE, M. P.
THE STOCK EXCHANGE: A Some	30000 HOURE ROSE, 185 (0 t (0 t)
STUDY OF INVESTMENT AND SPECULATION	F. W. Hitsr
UGISH NATIONALITY	ALBER STOPPORD GREEK
THE SOCIAL MOVEMENT	J. BANKAY MACROSALD, M.P.
PARLIAMENT: Its Hostory, Constitu-	HITCH MAN II AND AMERICAN AND AND A
TION, AND PRACTICE	Siz Courtway Leaser, R.C.R., E.C.S.I.
MUDEEN GEOGRAPHY	Market I. Nawment, D.S.C. (Lond.)
WILLIAM SHAKESPEARE	JOHN MARKETHEE,
THE EVOLUTION OF PLANTS	D. H. SCOTT, M.A., LL. D., F.R.S.
VOLUMES READ	Y IN JULY
THE OPENING-UP OF APRICA	So. H. H. JOHNSON, G.C.M.G., K.O.B., D.Sc., F.2.8.
MEDIASVAL EUBOPE	H. W. C. Davis, M.A.
MOHAMMEDANIBM	D. S. Manouloute, M.A., D.Leve.
THE SCIENCE OF WRALTH	J. A. Honson, M.A.
HEALTH AND DISEASE	W. LIBRAR MACKETONS, M.D.
INTRODUCTION TO MATHEMATICS	A. N. WEITERSTAIN, Sc.D. F.R.S.
THE ANIMAL WORLD	F. W. GAMBAR, D.Sc., F.R.S.
EVOLUTION	J. ARTHUR THORSON, M.A., and PATRICE GREENS, M.A.
LIBERALISM	L. T. Hosnovan, M.A.
CRIME AND INSANITY	Dr. C. A. Manous, F.R.C.P., F.R.C.S.

[&]quot;." Other volumes in active preparation

THE EVOLUTION OF PLANTS

BY

DUKINFIELD HENRY SCOTT

M.A., LL.D., F.R.S.

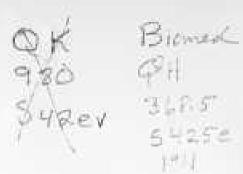
PRESIDENT OF THE LIBNEAU SOCIETY OF LONDON



NEW YORK
HENRY HOLT AND COMPANY
LONDON
WILLIAMS AND NORGATE

COPYRIGHT, 1981, BY HENRY HOLT AND COMPANY

THE UNIVERSITY PRESS, CAMBRIDGE, U.S.A.



CONTENTS

CHA:	P.	PAGE
1	INTRODUCTION — THE DARWINIAN THEORY — NATURE OF THE EVIDENCE — THE FOSSIL	
	RECORD	7
п	THE EVOLUTION OF THE FLOWERING PLANTS -	
3.5	Тие Рвовски	28
111	THE EVOLUTION OF THE FLOWERING PLANTS -	66
LV	THE EVOLUTION OF THE SEED-PLANTS	98
V	THE EVOLUTION OF THE HIGHER SPORE-PLANTS — THE FERRS	135
VI	THE EVOLUTION OF THE HIGHER SPORE-PLANTS - THE CLUB-MOSSES	155
VII	THE EVOLUTION OF THE HIGHER SPORE-PLANTS -THE HORSETALLS AND THE SPHENOPHYLIS	
7111	Conclusion	219
	GLOSSARY	241
	Bernography	245
	Innex	248



THE EVOLUTION OF PLANTS

CHAPTER I

INTRODUCTION — THE DARWINIAN THEORY —
NATURE OF THE EVIDENCE — THE FOSSIL
RECORD

The doctrine of Evolution is an attempt to answer the question, "What was the origin of all the multitude of forms of living animals and plants which now people the earth?" This question, so natural to ask, was long regarded by the majority of competent naturalists as insoluble.

Though we cannot, in the nature of things, have any direct knowledge of the origin of nature species (i. c. the different kinds of wild plants and animals), yet there are a great many familiar and often very distinct forms of living things, of which we do know the history, in whole or in part. These are our cultivated plants whole or in part. These are our cultivated plants and domestic animals. We know, for example (to confine ourselves to the plants), that our Roses and Tulips, Potatoes and Pars-