# SCIENTIFIC FEATURES OF MODERN MEDICINE

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649293346

Scientific features of modern medicine by Frederic S. Lee

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

## **FREDERIC S. LEE**

# SCIENTIFIC FEATURES OF MODERN MEDICINE

Trieste

## Columbia Anibersity Lectures

### SCIENTIFIC FEATURES OF MODERN MEDICINE

THE JESUP LECTURES

1911

COLUMBIA UNIVERSITY PRESS SALES AGENTS NEW YORK: LEMCKE & BUECHNEB 30-83 WENT 2TOB STERET LONDON: HENRY FROWDE AMEN CONVER, E.C. TORONTO: HENRY FROWDE 25 RIDEMOND ST., W.

55

#### COLUMBIA UNIVERSITY LECTURES

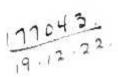
MPr.

## SCIENTIFIC FEATURES OF MODERN MEDICINE

BY

FREDERIC S. LEE, PH.D. DALTON PROFESSOR OF PHYFIOLOGY, COLUMBIA UNIVERSITY





New Pork THE COLUMBIA UNIVERSITY PRESS 1911

All rights reserved

Corversion, 1911, By THE COLUMBIA UNIVERSITY PRESS.

Set up and electrotyped. Published November, 1911.

Noticeob Briss J. S. Onshing Co."-- Berwick & Smith Co. Norwood, Mass., U.S.A.

#### PREFACE

An appointment to the lectureship founded by an appreciative and generous patron of science, the late Morris K. Jesup, Esq., has given me an opportunity to present some of the striking features of modern medicine which illustrate its genuinely scientific character, its great change from the medicine of the past, and its hopeful outlook for the future. Obviously no attempt could here be made to survey its whole field; but I have endeavored, through a consideration of selected topics, to depict its spirit. Human beings may be divided into those who do, and those who do not, believe in the efficiency of medicine. The relative number of nonbelievers has always been small, and is doubtless much less now than in the days of the Greeks and of Molière, but their sentiments have ever been loudly proclaimed. It is hoped that these pages may be read by both classes. They may perchance help to fortify the believers, and, if not actually to convert the dissenters, at least to make their doubts appear less rational. The labors of a learned profession can easily be belittled by those who are less learned. I shall be gratified if what I have here written shall be instrumental in inducing laymen to study the human body and appreciate what men of medicine are now doing to maintain health and to prevent, diagnose, treat, and cure disease. When laymen do this, the influence of medical cults and healing sects is sure to decline.

The lectures here published were delivered at the American Museum of Natural History in the city of New York during the months of February and March, 1911. As with previous lectures on the same foundation, the endeavor has been to present the subject matter clear-cut and in language that is

#### PREFACE

not too technical for the intelligent layman. The latter is often eager to learn, but cannot be criticised if he finds the literature of science written in words that are foreign to his mother tongue. In a few cases I have taken the liberty of quoting from previous writings of my own, without acknowledging the repetition of my language. It has been found impracticable to reproduce the many illustrations that were helpful in the oral presentation of the lectures.

My thanks are due to my colleagues, Professors Francis Carter Wood and Phillip Hanson Hiss, and Drs. W. A. Bastedo and H. H. Janeway, and to other friends, Drs. Simon Flexner, William Hallock Park, James Ewing, Alexis Carrel, Nathan W. Green, and Major F. F. Russell. Several of these friends have read critically portions of my manuscript and have offered helpful suggestions.

FREDERIC S. LEE.

COLUMBIA UNIVERSITY, October 1, 1911.

٤.

vi

## CONTENTS

T.	A St	ETCH OF	THE	NOF	MAL	Hu	MAN	Вору		2	1	PAGE 1
22	1999-1992	NATURE								IAGN	03-	
	IN	DISEAS	E		•	ð.			•	•		22
III.	MET	DODS OF	Тяк	TING	¥ D18	RAS	R	4	$2^{\circ}$	( <b>;</b> )		42
IV.	BACTERIA AND PROTOZOA AND THEIR RELATION TO											
	Di	SEASE	8	3	1			$(\bullet)$		•		64
v.	THE TREATMENT			AND	AND THE PREVENTION			OF INFEC-				
	TI	ous Dise.	ASES	1	10	8		•	-	8	٠	86
VI.	Тпе	PROBLEM	t of	CAN	CER A	ND	OTHE	R Pr	OBL	EMS	•	110
VII.	FEAT	URES OF	Mor	DERN	SURG	ER	r.	12.6	ş	12	14	182
VIII.	THE RÔLE OF EXPERIMENT IN MEDICINE. THE											
	Por	BLIC AND	THE	MEI	DICAL	PR	OFESS	ION	2	3		154
INDEX			×	3	<b>8</b> 0		×.		2	÷2		177

vii

2