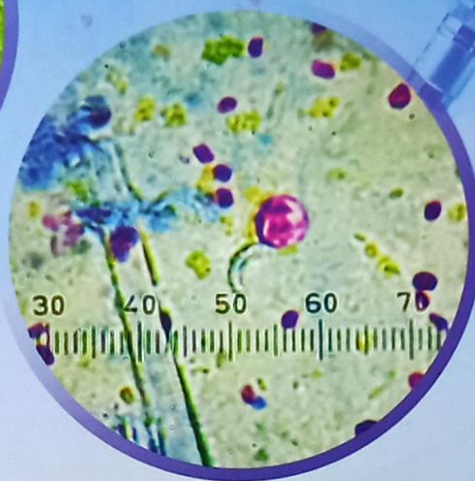




Laboratory Manual in **Diagnostic Medical Parasitology** with **Molecular Techniques**

SECOND EDITION

Giovanni De Jesus Milanez, RMT, MSMT

Frederick Ramirez Masangkay, RMT, MSMT

Kristina E. Ogot, RMT

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C & E Publishing, Inc.
2020



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Laboratory Manual in Diagnostic Medical Parasitology
with Molecular Techniques
Second Edition

Published in 2020 by C & E Publishing, Inc.
839 EDSA, South Triangle, Quezon City
Tel. No.: (02) 8929-5088
Email: info@cebookshop.com

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Giovanni De Jesus Milanez, Frederick Ramirez Masangkay,
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Cataloguing in Publication Data

QR Milanez, Giovanni De Jesus
255 Laboratory manual in diagnostic medical parasitology with
.M589 molecular techniques/Giovanni De Jesus Milanez, Frederick
2020 Ramirez Masangkay, Kristina E. Ogot.—2nd edition—Quezon City:
C & E Publishing, Inc., ©2020.
xi, 201 p. : ill ; 26 cm.
Includes bibliography.
ISBN: 978-971-98-1308-8
1. Diagnostic parasitology—Laboratory manuals. 2. Parasites—
Laboratory manuals. I. Masangkay, Frederick Ramirez. II. Ogot,
Kristina E. III. Title.

Book Design: Paul Andrew L. Pagunsan
Cover Design: Ruth Anne D. Ellorin

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THE AUTHORS	

With the discovery of new organisms that infect humans, the discovery of *Trichomonas vaginalis* as an opportunistic parasite in immunocompromised patients. The field has evolved in a way that the development of new techniques for isolating and identifying specimens is necessary. Some experts call it the birth of diagnostic medical parasitology (Garcia, n.d.).

This laboratory manual intends to equip medical technology students with skills for identifying parasites, a crucial step in medical laboratory science. The topics will cover the most common species that infect humans and will also help students perform the different procedures for collecting and processing specimens efficiently.

This second edition includes new ways to further aid technologists in providing the correct healthcare intervention to patients. The development of molecular techniques has been instrumental to laboratory diagnosis in providing accurate identification. These techniques are vital skills that students must acquire in modern practice. This manual hopes to provide learners with an initial outlook and guide when conducting molecular testing and identification, since procedures and protocols differ for each organism.

The manual format begins with schematic illustrating different techniques in identifying and quantitative reporting of parasitic forms. It is then followed by hands-on microscopic visualization and application to isolate and identify particular specimens. We hope that by the end of the semester, this book will have aided the students in developing their skills, expertise, and passion in laboratory work as well as motivating future parasitologists in the country.

— The Authors

Laboratory Manual in Diagnostic Medical Parasitology with Molecular Techniques (Second Edition) is a practical guide to routine diagnostic procedures of human parasites. It contains brief reviews of specific groups of parasitic organisms, as well as activities that would help future medical technologists identify infections in the clinical setting. This book will also be of great use to future laboratory technicians and researchers who are reviewing basic and molecular techniques.



Excello™ is a continuously expanding aggregation of high-quality learning assessments designed to help students master the Philippine curriculum's key skills and provide teachers with easy-to-use test creation tools.



Published by:
C & E Publishing, Inc.
839 EDSA, South Triangle
Quezon City, Philippines
Tel. No.: (02) 8929-5088
E-mail: info@cebookshop.com
Website: www.cebookshop.com



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ISBN 978-971-98-1308-8

