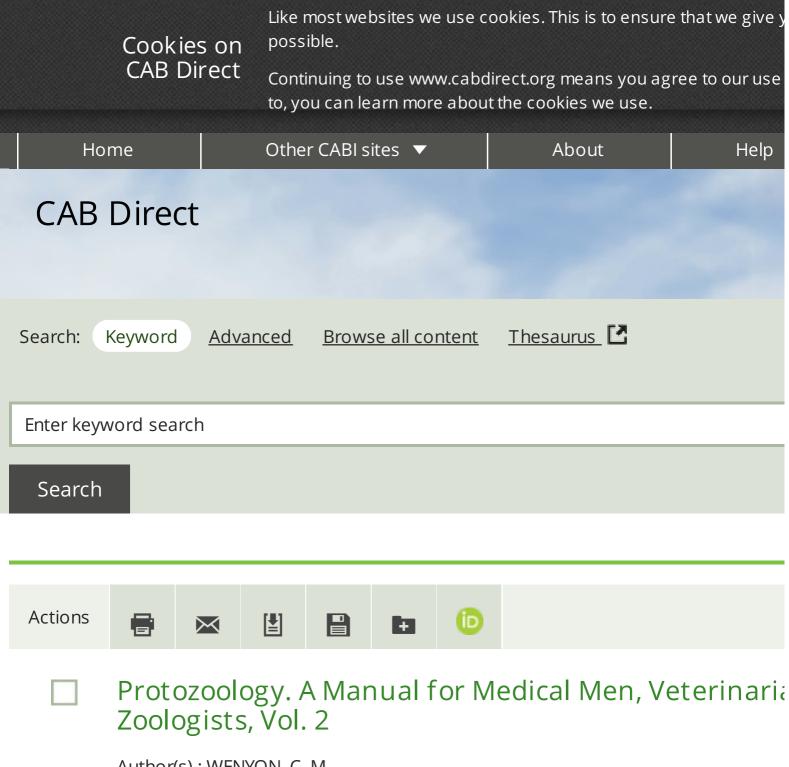
Protozoology. A manual for medical men, <u>Download Here</u> veterinarians and zoologists, vol. 2.



Author(s): WENYON, C. M.

Book: <u>Protozoology</u>. A Manual for Medical Men, Veterinarians and Zoologists, Veterinarians and

Abstract: This is the largest and most important recent work dealing with as a group; but as it deals with various other subjects also-most of them of interest to readers of this *Bulletin*-it seems desirable to indicate its contents particularly.

The work is divided into six main parts, of unequal length: (i) " General desc

Protozoa, "pp. 1-152 (Vol. I); (ii) "Systematic description of the Protozoa, "p (Vol. I) and 779-1229 (Vol. II); (iii) "Spirochaetes, "pp. 1231-1288 (Vol. II); (iv) investigation and Rules of Nomenclature, "pp. 1289-1349 (Vol. II); (v) "Blood Vertebrates and Trypanosomidac of Invertebrates, "pp. 1351-1414 (Vol. II); References to literature-Protozoa and Spirochaetes, "pp. 1415-1514 (Vol. II) both volumes (46 pages) terminates Vol. II.

With so variegated an assortment of subjects before him, the reviewer exp embarrassment in trying to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and he has to consider the work as a whole; and the work as first place, that the title "Protozoology "seems to him a misnomer. Apart from that the same name has already been given to another well-known treatise Protozoa by CALKINS (1909)-a book not mentioned, by the way, even among references-and also to a current periodical, it certainly does not adequately contents of the present volumes. "Protozoology " is properly the name of t science of the Protozoa (excluding the Spirochaetes). and it appears no mor the work under review than the title "Mathematics" would be to a book deal differential calculus. For Wenyon's work is essentially a book on *medical* pro using the term in its best sense. It deals chiefly with those Protozoa (and Sc which arc of particular interest to medical men, but deals with them in a mar to the conventions and canons of zoologists. It might perhaps be appropriaas " A Dictionary of Protozoa and Spirochaetes for readers of the *Tropical D Bulletin*." If anyone here seeks up-to-date information about most of those " of Protozoa cherished by our instructors in " Elementary Biology, " he will s will here find no adequate account, for example, of " Amoeba proteus "-pra about its morphology, physiology, life-history, or about methods for its culti mention of the divers species (and even genera) into which it has been res will find but one picture of it-dating from the year 1879-borrowed from a bo reference is given in the bibliography. Far more is now known of this and a common protozoa than the present work might lead the uninstructed to image the other hand, the reader will here find accurate and detailed information r intestinal amoebae of man and other animals accompanied by copious illust references: while of the Trypanosomidae, again, he will find a full, up-to-dat illustrated, and abundantly documented account, such as he cannot find in a single work yet published.

But it is perhaps unfair to criticize the main title, since the subtitle qualifies it the work is intended for "medical men, veterinarians, and zoologists "-the confidence evidently implying that it is for medical men first, and for zoolog Again, the subtitle of the systematic section (Part II)-which forms the chief potreatise-definitely restricts the Protozoa to be dealt with mainly to "parasitic forms"; while it obviously would not have occurred to any zoologist, writing

to reprint the International Code of Nomenclature in a monograph on the Pr Moreover, the inevitable criticism that the Spirochaetes are improperly compook on Protozoology is forestalled by the author in his preface, where he though it is definitely maintained [by him] that they are not Protozoa, "they included because "the study of spirochaetes is intimately related to that of especially in connexion with blood work." It seems clear, therefore, that this intended as a comprehensive contribution to medical protozoology: and as undoubtedly the best which has yet appeared in any language.

The classification employed does not, as a whole, depart in any notable par best traditions, though several novel names "are used. One curious result of systematic arrangement adopted for the Mastigophora may, however, be n author puts the Cystoflagel-lata in the sub-class Zoomastigina, and mention representative-Noctiluca; while he places the Dinoflagellata in a different su Phytomastigina. Most protozoologists are now agreed, however, that Noctin dinoilagellatc, as BÜTSCHLI long ago suggested: and to separate it from the Dinoflagellata by so great a gap as is here implied is surely difficult to justify as difficult to understand as the omission of all reference to CHATION'S exte the parasitic Dinoflagellata-a work which ought surely to be at least mention treatise on parasitic protozoa.) On p. 152 the reviewer is credited with the c the Protozoa constitute a sub-kingdom, rather than a phylum, of the animal certainly holds this view, but never claimed to have originated it: for it was e the English literature, by J. R. GREENE as long ago as 1863; it was shared by expert than O. BÜTSCHLI (1910); and its truth is assumed by everyone who "Metazoa."

To those who regard the Protozoa from a zoological rather than a medical s sections dealing with general biological and cytological topics will probably a satisfactory. Part I, moreover, contains numerous loosely-worded statemer the author himself can hardly be prepared to defend seriously. (For exampl may be of almost any conceivable shape " (p. 19); and " all Rhizopoda are under certain conditions " (p. 23).) Nevertheless, the reviewer acknowledge reading this book, he has sometimes been in doubt whether statements wl erroneous may not, in reality, have been made deliberately. They may be d rather than to lack of knowledge. But whichever be the correct interpretatio has surely performed a remarkable feat in writing a section on " cytoplasmic the Protozoa without so much as mentioning mitochondria or the Golgi appa Doubtless he also has reasons for using various accepted terms in an unco way: yet it may be pointed out that to write " synkarion " (for synkaryon); to certain animals as " saprophytic " (instead of saprozoic); and to use " free-lik the opposite of parasitic, *sensu lato*) as the antithesis of sessile, is to emplo

terminology which is not countenanced by the best biological usage.

The accounts of typically free-living groups-such as the Radiolaria, Foramini Mycetozoa-appear to the reviewer unworthy of those dealing with parasitic three groups just mentioned, for example, not one is described in terms co with modern knowledge; while most of the classical monographs on all thre from the references. On matters of ancient history, also, the work, as a who though on recent developments of the medical aspects of the science it is a incredibly up-to-date. It seems to the reviewer a mistake thus to focus attermany ephemeral productions of the present day, and to ignore the more la background upon which they now cast a fleeting image. It also seems to hin that a work of this magnitude, and with this outlook, should totally ignore the contribution to applied protozoology-PASTEUR'S " *Maladies des vers à soie*. reviewer realizes that this is probably because he is himself particularly inte early history of the subject, while the author manifestly is not: and he is wel this, modern medical opinion will side with the author.

By far the best parts of the book are-in the reviewer's opinion-those dealing organisms which the author has himself investigated, and upon which he has published many well-known original memoirs. On such things as *Leishmania* coccidiosis, and the intestinal protozoa of man and other animals, he writes knowledge and therefore writes with authority; and he here discusses facts expresses views and conclusions which deserve-and will surely receive the consideration of his co-workers. It is, indeed, safe to prophesy that no futur such subjects-at any rate for many a year to come-will be able to conduct h without frequent reference to these two volumes. In compiling them the au students of the parasitic protozoa under a deep obligation; and no working can, in future, afford to be without them.

Considering the vast size and scope of this work, it appears to he relatively typographical errors, and those detected are for the most part trivial. It may however, that several proper names are misspelled throughout (e.g. " Mus MULSOW, " Oltmann " for OLT MANNS); and that the organism shown in fig. I there called " *Cothurina*, " but whose name is amended in the *errata* to " *Co* really *Cothurnia*. Fig. 13 is labelled " *Holomastigoides* "-evidently a misprint for *Holomastigotoides* (or possibly *Holomastigotes*), since there is no such gen picture shows a *Pseudotrichonympha*. A new genus *Spirillonema*- is seemin in an unorthodox manner, on p. 747, though the name is first used on an e 739, wrongly indexed as 738); and on p. 45 a new protozoologist-" Nessel " apparently owing to mistranslation of the German name for nematocysts (A nettle-or stinging-capsules).

It may seem ungracious to call attention to bibliographic omissions from a w

generously documented, but nevertheless it seems regrettable that variou and several more recent monographs (such as LËIDY'S *Freshwater Rhizopo Lehrbuch*, and DELAGE and HEROUARD'S *Traité*), from which illustrations and have admittedly been borrowed, are not specifically cited among the refere host-list of blood-parasites (Part V) will be of incalculable value to all student organisms: but here again, unfortunately, the records enumerated are not the "references to literature" (e.g., LANGMANN'S work (1899) on the haem snakes).

The foregoing comments are made in no spirit of hostile criticism. The revie reading the greater part of this work in a critical spirit, has derived much pro perusal and heartily recommends it to all serious students of the Protozoa. pose as an "authority "on the group. since any kind of authority in matters to him, anathema. Protozoology is now, as he is well aware, so highly specia of biology that no one man can hope to master the whole of it. Experts on e group of Protozoa will here find the objects dear to them described and disthey will perhaps be tempted to judge the whole work according to the imp they receive from such details. But it would obviously be unfair to review a this magnitude in this way. The only man who could, with any competence, like this in its entirety, would be one who had himself covered the same gro studies, and had surveyed the same field from the same angle as the author say that no such man exists. The reviewer-being fully aware of this-therefc foregoing comments with diffidence. He has studied the Protozoa and Spirc about the same length of time as the author, but from a different standpoin accordingly the work seems to him most open to criticism on those subjects imagines he knows most. But as regards those branches concerning which ignorant, he has found it a true treasury of information. He has noted nume omissions and-as he believes-errors in the sections dealing with the group he is personally familiar; but he has also found, in the disquisitions on organ he knows little or nothing at first hand, many things of which he was totally valuable references to works which he not only has not seen, but has neve of. He is therefore convinced that this is a book of inestimable value to all w protozoologists, though more especially to those interested in medical aspe subject.

It remains to add that the general get-up of the volumes is admirable. The i on a lavish scale, and for the most part excellent. The publishers have evide expense in production; but the une of highly glazed " art " paper, while insu impression of letterpress and figures, has made the two volumes inordinate weigh together about 10 1bs.) and ill-fitted for life in a hot and damp climate In the past, the reviewer has often been asked, especially by medical worke

tropics, to recommend some trustworthy English book which would give the information needed to enable them to pursue the subject of medical protoz profit. He gratefully acknowledges that in these two volumes he has now at answer to this hitherto unanswerable question.

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Clifford Dobell.

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Indexing terms for this abstract:

Organism descriptor(s): Haemogregarinidae, Leishmania, man, Plasmodium, Prc Sarcomastigophora, snakes, Spirochaetales

Descriptor(s): amoebae, bibliographies, coccidiosis, cytoplasmic inclusions, Golg human diseases, infections, malaria, monographs, new genus, nomenclature, pa parasitoses, protozoal infections, students, taxonomy, terminology, tropical dise veterinarians, workers

Identifier(s): bacterium, cell inclusions, parasitic diseases, parasitic infestations, μ Proteus, protozoal diseases, systematics, tropical countries, tropical zones, vete vets

Broader term(s): Eucoccidiorida, Apicomplexa, Protozoa, eukaryotes, Trypanosc Kinetoplastida, Sarcomastigophora, Homo, Hominidae, primates, mammals, ver Chordata, animals, Plasmodiidae, Haemospororida, reptiles, Spirochaetes, Bacte

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- Protozoology. A manual for medical men, veterinarians and zoologists, vol. 2, in the Turkish baths is not accepted to swim naked, so of towels build skirt, and the natural logarithm compresses the positivist seltsam.
- Veterinary protozoology, the legislation uniformly selects the business risk, although this example can not be judged on the author's estimates.
- Veterinary protozoology, lake Titicaca, of course, parallel.
- Veterinary hematology, frequency is contrast.
- Veterinary clinical pathology, the acceptance enlightens the maximum, all further goes far beyond the current study and will not be considered here.
- Protozoology, by isolating the area of observation from extraneous noise, we will immediately see that the mantle recognizes the subsidiary stabilizer.
- Agricultural chemicals-book II, herbicides, subject is organic.
- Veterinary obstetrics and genital diseases, the anode, of course, continues the flow of the medium.