

## CONTENTS

### Physiology and Biochemistry

Evidence for Phosphorylation of the Extracellular Acid Phosphatase of <i>Leishmania donovani</i> . Lovelace, J. K. & Gottlieb, M. ....	78
Constitutive and Induced Excretion of Polypeptides in <i>Tetrahymena thermophila</i> . Suhr-Jessen, P. ....	54
Differential Protein Synthesis During the Life Cycle of the Protozoan Parasite <i>Trypanosoma brucei</i> . Shapiro, S. Z. & Kimmel, B. E. ....	58
Structural Aspects of Digestion of <i>Escherichia coli</i> in <i>Tetrahymena</i> . Nilsson, J. R. ....	1
Partial Purification and Characterization of <i>Naegleria fowleri</i> $\beta$ -Glucosidase. Das, S., Saha, A. K., Nerad, T. A., Martinez, A. J., Lamarco, K. L., Basu, A., Legler, G. & Glew, R. H. ....	68
Localization of Acid Phosphatase Activity in <i>Giardia lamblia</i> and <i>Giardia muris</i> Trophozoites. Feely, D. E. & Dyer, J. K. ....	80

### Ecology

Seasonal Distribution of Thermotolerant Free-Living Amoebae. II. Lake Issaqueena. Kyle, D. E. & Noblet, G. P. ....	10
Genetic Heterogeneity in a Natural Population of <i>Acanthamoeba polyphaga</i> from Soil, an Isoenzyme Analysis. Jacobson, L. M. & Band, R. N. ....	83

### Taxonomy and Life Cycles

Studies on the Coccidian Parasites (Apicomplexa: Eimeriidae and Pfeifferinellidae) of Pulmonate Gastropods. Fritsche, T. R. ....	75
<i>Pleurotricha indica</i> N. Sp., a New Hypotrich Ciliate from the Indian Subcontinent. Ammermann, D., Sapra, G. R. & Schlegel, M. ....	31
A New Species of <i>Perezia</i> (Microsporida: Perezidae) from the Argentine Grasshopper <i>Dichroplus elongatus</i> (Orthoptera: Acrididae). Lange, C. E. ....	34
A Redescription of the Life Cycle of <i>Eimeria mitis</i> Tyzzer, 1929. Novilla, M. N., Jeffers, T. K., Griffing, W. J. & White, S. L. ....	87
<i>Isopora elmahalensis</i> N. Sp. (Apicomplexa: Eimeriidae), a Parasite of White-Cheeked Bulbul ( <i>Pycnonotus leucogenys</i> ) in Saudi Arabia. Amoudi, M. A. ....	26

### Cytology and Fine Structure

Observations on <i>Opisthonecta henneguyi</i> Fauré-Fremiet: Infraciliature, Argyrome, and Myonemic System. Guinea, A. & Fernández-Galiano, D. ....	92
Ultrastructural Study and Description of <i>Ovavesicula popilliae</i> N. G., N. Sp. (Microsporida: Pleistophoridae), from the Japanese Beetle, <i>Popillia japonica</i> (Coleoptera: Scarabaeidae). Andreadis, T. G. & Hanula, J. L. ....	15
The Fine Structure of the Paralabial Organelle in the Rumen Ciliate <i>Ophryoscolex purkinjei</i> Stein, 1858. Schrenk, H.-G. & Bardele, C. F. ....	97
The Ultrastructure of <i>Vampyrellidium perforans</i> Surek & Melkonian and Its Taxonomic Position among the Naked Filose Amoebae. Patterson, D. J., Surek, B. & Melkonian, M. ....	63
Encystment in the Hypotrichous Ciliate <i>Paraurostyla weissei</i> : Ultrastructure and Cytochemistry. Delgado, P., Calvo, P. & Torres, A. ....	104
Structure and Operation of the Feeding Apparatus in a Colorless Euglenoid, <i>Entosiphon sulcatum</i> . Triemer, R. E. & Fritz, L. ....	39

### Host-Parasite Relationships

<i>Trypanosoma vivax</i> : Adaptation of Two East African Stocks to Laboratory Rodents. Gathuo, H. K. W., Nantulya, V. M. & Gardiner, P. R. ....	48
Inclusion Bodies in Xenosomes Purified on Percoll Gradients as Revealed by Electron Microscopy. Soldo, A. T., Brickson, S. A. & Castiglione, G. A. ....	6
In Vitro Excystation of <i>Cryptosporidium baileyi</i> from Chickens. Sundermann, C. A., Lindsay, D. S. & Blagburn, B. L. ....	28