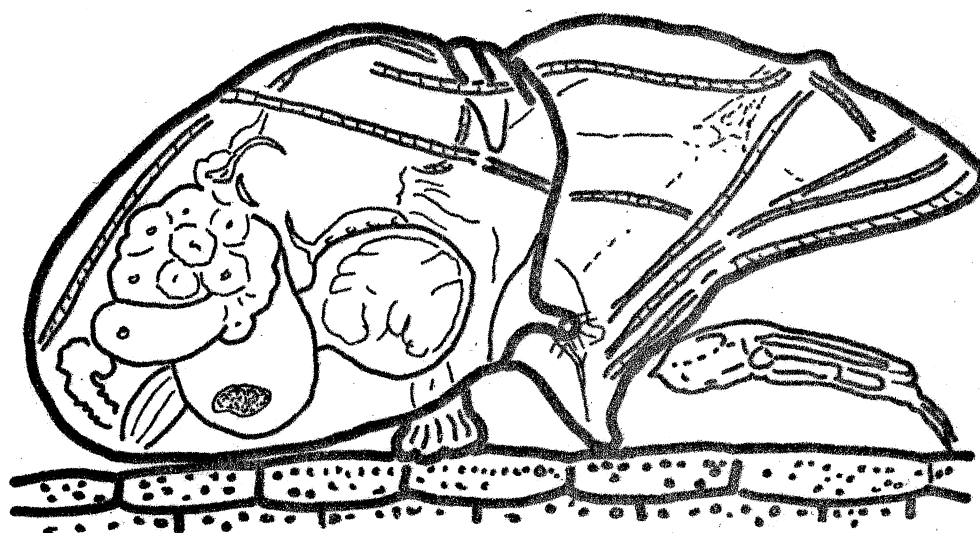


NUMBER 1

July 1973

ROTIFER NEWS

A Newsletter for Rotiferologists throughout the World



Cupelopagis vorax
(from Koste, 1973)

Printed at :
Department of Biological Sciences
Dartmouth College
Hanover, New Hampshire 03755
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Editor:
John J. Gilbert

Dear Rotiferologist:

I have now received more than one hundred completed questionnaires. The mailing addresses and research interests of these rotiferologists are printed in this issue of the newsletter in separate lists.

The names of rotiferologists who have been sent questionnaires but have not yet returned them to me are printed in another list. I hope that many of these will respond in the future by sending me their complete mailing addresses and a description of their current research activities and interests. It is possible that I did not have the correct addresses for some of these investigators and, therefore, that some of them never received the questionnaires. I hope you will all help to notify these and other rotiferologists about our newsletter so that as many people as possible may contribute.

The newsletter "Rotifer News" will be sent, free of charge, to everyone who sends to me his or her complete mailing address and a description of his or her current research activities and interests relating to rotifers. Therefore, people presently not on the mailing list may receive the newsletter simply by sending me the appropriate information.

It is my intention to make the newsletter informal and to encourage maximum participation by both professional and amateur students of rotifers. Partly for this reason, I have decided to use names without any titles, such as "Dr." or "Prof. Dr.," throughout the newsletter.

Many very good suggestions for items to include in the newsletter were submitted to me with the questionnaires. These items are listed below and will be arranged, at least for the present, in the following way: I. New Subscribers; II. Personal; III. Requests; IV. Notices; V. Notes; VI. Bibliography.

The "New Subscribers" section will contain the names, complete mailing addresses, and descriptions of current research activities and interests of rotiferologists who become new subscribers. Every other year or so, the complete mailing list will be updated, alphabetized, and printed in the newsletter.

The "Personal" section will contain: a) changes of address; b) addresses during sabbaticals, leaves, or long visits; c) new research activities and interests; d) obituary notices; e) and other information about individual subscribers.

The "Requests" section will contain requests for anything, such as: a) living cultures of rotifers and algae; b) preserved material for systematic revision of genera; c) advice or information on any matter; d) help in taxonomy; e) location of type specimens; f) books or reprints for exchange or sale; etc.

The "Notices" section will contain items, such as: a) announcements of conferences, symposia, and meetings where papers on rotifers or of interest to rotiferologists will be given; b) announcements and reviews of newly published books of interest to rotiferologists;

c) information about jobs and about study opportunities, e.g. possibilities for joint research programs; d) announcements of publications in preparation and in press; e) notices of expeditions or proposed expeditions; f) notices of books and reprints that individuals might have for exchange or sale or for distribution on request; g) notices of the availability of bibliographies prepared on special topics or taxonomic groups; h) information on useful new equipment, such as sampling apparatus, and newly developed techniques which can be applied to the study of rotifers; i) lists of preserved samples available to those who might request them; j) lists of rotifer species in culture or in resting eggs which could be made available to those requesting them; etc.

The "Notes" section will contain items, such as: a) hints for the collection, preservation, and mounting of rotifers; b) suggestions for interesting projects which could be undertaken with very little equipment; c) concise reports of studies not intended for publication; d) new observations and techniques which can be released prior to publication -- e.g. culture methods, preliminary notes, etc.; e) findings of new species; f) short summaries of published research not likely to be readily available; etc. Items b) and c) above might be of especial interest to non-professional students, who can make very important and interesting contributions.

The "Bibliography" section will consist of two parts. The first part will be available for complete individual bibliographies of rotifer papers. Several investigators suggested that each issue might contain a few such reference lists. Therefore, please submit to me your complete list of rotifer publications, and I will print them as space is available. Please use the format of reference citation that is used in the recent bibliography of this issue.

The second part of the "Bibliography" section will contain recent references. Upon receipt of reprints or of complete references from individual subscribers, I will print these references in the newsletter.

At the present, I am planning to print two issues of the newsletter each year, one approximately every six months. It is clear that the success of this newsletter will depend upon the extent to which individual subscribers participate and send me items for printing and distribution. Therefore, please send me all types of items! Please typewrite all submitted material. Items will be printed in English, French, and German. The editor reserves the right to determine the acceptability of items and to condense and edit as he sees fit. Each subscriber should feel free to respond to any item in any issue by submitting corrections and additions.

I sincerely hope that we will all work to make this newsletter a useful, interesting, and enjoyable undertaking.

Best wishes,

John J. Gilbert

John J. Gilbert

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CURRENT RESEARCH INTERESTS OF
ROTIFER INVESTIGATORS

- ADALSTEINSSON, H.--Ecology of planktonic rotifers of Lake Myvatn, north Iceland.
- AMRÉN, H.--Planktonic rotifer ecology.
- ANDERSON, R.S.--Distribution and abundance of rotifers in alpine lakes and ponds. Relationships between distribution of rotifers and certain planktonic crustaceans. Seasonal variations in rotifer communities in alpine lakes.
- AUER, M.--The relationship of rotifers to algal populations.
- BADINO, G.--Genetics and sex determination of rotifers.
- BIRKY, C. W., Jr.--Occasional studies on developmental polymorphism in Asplanchna; attempts to use Asplanchna in studies of mitochondrial genetics by using inhibitors of mitochondrial function (e.g. erythromycin) and inducers of mitochondrial mutation (e.g. ethidium bromide).
- BJÖRKLUND, B. G.--Taxonomy and ecology of monogonont rotifers, especially those living in the sea and in brackish water, but also, in freshwater. Interested mostly in the non-planktonic species of the genera Notholca, Colurella, Lecane, Lepadella, and Cephalodella.
- BOGOSLOVSKY, A. S.--Latest, published results on resting eggs are summarized in the "Notes" section of this issue. Now retired and inactive.
- BUCHNER, H.--Sexualität der Rotatorien: Ablauf und Bedingungen der Heterogonie.
- BUNTING, D. L.--The lethal and sublethal effects of herbicides on rotifers, with special reference to pelagic species. The distribution of pelagic rotifers in reservoirs, in relation to water quality and drainage. The effects of thermal stress on rotifer species.
- CHENGALATH, R.--Rotifera of the tropics; littoral Rotifera of Ontario.
- COOHILL, T. P.--Rotifers and aging. The effects of radiation and anti-oxidants on longevity. Have used Asplanchna and will also use Philodina in the future. Hope to be able to study the activity of the rotifer brain as a function of age.
- DAEMS, G.--Ecology and production of periphytic rotifers in a polluted river.
- DARTNALL, H. G. J.--Ecology of freshwater rotifers from the Antarctic.
- DE MAESENEER, J.--Population dynamics of rotifers in shallow waters.

- DE RIDDER, M.--Systematic, ecological, and biogeographical research on rotifers.
- DOMENECH, F. A.--Cultivation of Brachionus plicatilis as food for larvae of the crustacea Penaeus kerathurus and Palaemon serratus.
- DONNER, J.--Vorkommen in den Altwässern der Donau bei Wallsee und in der Lobau, Österreich (Jahressukzession). Vorkommen im Schilfgürtel des Neusiedler Sees, Österreich (Jahressukzession). Plankton des Kainji Lake, Nigeria.
- DOOHAN, M.--Thesis recently completed on energetics and productivity of planktonic rotifers of reservoir populations. Empirical relationships established between temperature/respiration, size/respiration, productivity/respiration, and productivity/biomass for a small group of species. Energy budget, including consumption and assimilation, prepared for Brachionus plicatilis, and age-dependent respiration studied in collaboration with Prof. Ruttner-Kolisko. Similar work to be continued on Bdelloidea in slow, sand filters using Cartesian divers and radiotracer technique.
- DUMONT, H. J.--Rotifer fauna of Europe, North Africa, and Asia Minor. Ecology of rotifers: patchiness and vertical migration. Rotifers and pollution: indicator value, competitive potential.
- EDMONDSON, W. T.--Birth and death rates of zooplankton, including rotifers, in Lake Washington as its productivity has changed after diversion of sewage. Improvement of the use of egg data for this purpose. Part of the work involves determining the actual age distribution of eggs.
- EJSMONT-KARABIN, J.--Investigation of the biology and ecology of Asplanchna priodonta in some lakes of northern Poland--distribution, morphological variation, feeding. Composition and dynamics of planktonic rotifers in experimentally fertilized lakes.
- ELLIOTT, J. I.--The distribution of planktonic rotifers in Grasmere (English Lake District). Analysis of four years of data from weekly samples taken at four depths in the deepest part of the lake, before, during, and after operation of activated sewage plant.
- ELMORE, J.--Seasonal and ecological succession patterns of rotifers and other zooplankton. Current research site is Woods Reservoir near Tullahoma, Tennessee.
- FERNANDO, C.H.--Rotifera of tropical Asia. Systematics and composition of rotifer faunas of Malaysia, Ceylon, India, Indonesia, Burma, Thailand and Bangladesh. Rotifera of the littoral regions in Ontario lakes and ponds.
- FOTT, J.--Phytoplankton-zooplankton relationships; seasonal changes in the rotifer populations of fish ponds.

FROCK, R. L.--Identification and records of rotifers associated with samples of algae taken in fresh waters of Pennsylvania.

GEORGE, M.--Taxonomy and ecology of littoral rotifers. Currently concentrating on the Lecane-Monostyla group from Ontario.

GILBERT, J. J.--Mictic female production and feeding behavior in Brachionus calyciflorus. Polymorphism in the phenotype of Asplanchna sieboldi. Effects of tocopherol in rotifers.

GILLARD, A.--Taxonomy of Brachionidae. Rotifers from Belgium and Africa.

GODEANU, S.--Ecology of planktonic organisms. Study of different types of rotifer associations from marshes, peat bogs, and temporary waters in Romania.

GOPINATH, N. V.--The biochemical control of nuclear constancy in the rotifer Asplanchna. A study of the rotifer fauna of Rajasthan is in progress.

GREEN, J.--Systematics and ecology of tropical rotifers.

GRÖNBERG, B.--Work with the National Swedish Environment Protection Board, Limnological Survey, in Uppsala on an investigation of the great lakes in Sweden and also lakes in their drainage areas. The work consists mainly of describing the distribution and abundance of zooplankton in relation to phytoplankton, bacteria, oxygen content, and fish predation. The composition of the rotifer fauna in the different types of lakes seems to be important in attempting to characterize the lakes.

GROSSNICKLE, N. E.--Will initiate a study on the temperature tolerance of some rotifers that appear to be warm-water stenotherms, namely, Ploesoma truncatum and Trichocerca multicrotus. This study might expand to include other warm-water species. Interested in studying feeding in rotifers and in problems associated with rotifer taxonomy.

HAKKARI, L.--Zooplankton species as environmental indicators. Effect of fish predation on the abundance of rotifers and other zooplankton.

HALBACH, U.--Population dynamics, competition and predator-prey relationships in laboratory experiments and in the field. Main species under study: several species of Brachionus and Asplanchna.

HALL, D. J.--Rotifer population dynamics and production; competitive interactions of rotifers with other zooplankters (Crustacea).

HAMMER, U. T.--Limnological importance of the rotifer component of the plankton in Saskatchewan and Australian lakes.

- HAMMERMAN, I.--Studies on the degree of symmetry of the rotifer brain and examination of the variations among genetically identical rotifers, using a serial three-dimensional reconstruction of nerves in the brain. A graphics computer system is employed to keep track of contours abstracted from aligned electron microscope photographs.
- HERBST, H. V.--Quantitative Zooplanktonuntersuchungen an stehenden Gewässern aller Typen. Saprobitätsindikation bdelloider u.a. Rotatorien.
- HERTEL, H.--Ascertaining the spectral sensitivity of the central and lateral photoreceptors in Asplanchna priodonta Gosse. Ultra-structural analysis of these photoreceptors. Examination of the spectral sensitivity of the response under different chromatic adaptation conditions.
- HILLBRICHT-ILKOWSKA, A.--Seasonal dynamics, composition, biomass, and egg ratio of the planktonic rotifers in the lakes of Northern Poland--lowland lakes of various trophy and morphometry. Assessments of rotifer production in comparison with other components of the zooplankton, mainly crustaceans. Feeding rate and food composition of some rotifers, e.g. Asplanchna. Planktonic rotifers as an indicator of lake eutrophication and fish management. The role of rotifers in the food web and energy flow of plankton communities.
- HOFMANN, W.--Populationsdynamik und Populationsökologie der Planktonrotatorien des Plusses bei Plön. Verbreitung der planktischen Rotatorien in schleswig-holsteinischen Gewässern. Taxonomische Untersuchungen, z.B. in der Gattung Filinia.
- HOLLOWDAY, E. D.--A ten year qualitative and quantitative study of the Rotifera and Cladocera of six closely associated clay pits near Aylesbury, using as a filtering media a stainless-steel wire fabric with apertures of only 37 μ m.
- HOLMBERG, O.--Rotifers in the waters of Swedish pine forests. Ecology and methods for studying their ecology (species composition, numbers, food, etc.).
- HOLMSTRAND, L. L.--Ecology of the rotifer Lindia euchromatica.
- HORKAN, J. P. K.--Preparing a list of Irish Rotifers (now complete). Planktonic Rotatoria of Killarney Valley Lakes with reference to the effects of eutrophication and senescence on populations and reproductive rates.
- HUTCHINSON, G. E.--Studies limited now to summarizing data on attached and benthic rotifers in Treatise on Limnology, volume III. Much information already assembled.
- JENNINGS, P. G.--Ecological investigations on selected sites of Signy Island, South Orkney Islands.

- JOHANSSON, J.--Involved in a project studying the effects of fertilization of forests. Examining the production of the littoral zone zooplankton, including rotifers, in two lakes.
- KABAY, M.--Biochemical characterization of allelochemic substance produced by Asplanchna sieboldi and inducing spine growth in Brachionus calyciflorus. Determination of site(s) of action of this allelochemic-- transcriptional, translational, enzyme regulation, other?
- KEEN, R.--Investigations of predator-prey relationships in natural populations of Keratella and Asplanchna.
- KING, C. E.--Genetics and ecology of the adaptation of rotifers to seasonal variation.
- KJELLBERG, G.--Investigation of the zooplankton in Lake Mjøsa, Norway.
- KOCH-ALTHAUS, B.--Im moment untersuche ich das Rotatorienplankton zweier Talsperren des Mittelgebirges.
- KOEHLER, J. K.--Ultrastructural characteristics of the integumental and reproductive systems of rotifers. Rotifer cryobiology.
- KOSTE, W.--Taxonomy and distribution of Rotifera. Currently working on the rotifer fauna of a lagoon in Brazil and of the south shore of the Caspian Sea. A monograph of the genus Ptygura is in preparation.
- KÜSTERS, E.--Quantitative Zooplanktonuntersuchungen an stehenden Gewässern aller Typen. Saprobitätsindikation bdelloider u.a. Rotatorien.
- KUTIKOVA, L. A.--Systematic, taxonomic, ecological, phylogenetic and faunistic studies of rotifers; also the functional morphology of their coronal apparatus.
- LAN, O. B.--Rotifers of the fish ponds of Bojong Loa. (South of Bandung, Indonesia).
- LARRSON, P.--Production studies on zooplankton, including rotifers, in a sub-alpine lake in southern Norway.
- LEENTVAAR, P.--Ecology of rotifers. Identification of rotifers in plankton communities from different types of water, especially nature reserves. Rotifers as indicators of water quality. Planktonic rotifers from Lake Brokopondo and other inland waters in Surinam, S. America.
- LEVINTHAL, C.--Analysis of the three dimensional neural anatomy and developmental neural anatomy of rotifers by means of serial section microscopy and computer reconstruction.
- LEWKOWICZ, M.--Studies of planktonic rotifer species in fish ponds with different degrees of eutrophication--unfertilized ponds and ponds fertilized with minerals and organics. The following parameters are being investigated in relation to some chemical factors and the phytoplankton: species composition, population density, egg ratio and rate of mixis.

- LIKENS, G.--General ecology of rotifers -- trophic dynamics, population dynamics, and role in ecosystems.
- MAKAREWICZ, J.--Analysis of the production, biomass, and seasonal distribution of rotifers in a small oligotrophic lake.
- MALY, E.--The dynamics of predators and prey as they relate to theoretical models of stability. Asplanchna brightwelli is the predator being used in a laboratory system which presently includes Euglena and Paramecium as prey. Specific focus is on the extent to which Euglena induces mictic production and the consequences of sexuality on Asplanchna reproduction and on the system as a whole.
- MARKELLO, S. J.--Temporal and spatial distribution, production, and competitive interactions (using a mathematical niche analysis) of planktonic rotifers along the southern inshore zone of Lake Ontario.
- MUNRO, I. G.--The zooplankton of a new reservoir in Kent, England. The work includes an investigation of the planktonic rotifers, especially during periods of thermal stratification and artificial destratification.
- OLOFSSON, H.--Involved in a project studying the effects of fertilization of forests. Examining the production of the pelagic zone zooplankton, including rotifers, in two lakes.
- PEJLER, B.--Notholca: taxonomy, ecology and distribution. Keratella cochlearis: experimental studies of the form variation. Rotifers of Surtsey (the new volcanic island outside Iceland). Rotifers of Lake Erken (Central Sweden).
- PENNAK, R. W.--Seasonal distribution of rotifers in alpine lakes.
- PERSSON, G.--Horizontal and temporal variation in rotifer populations of small subalpine tarns exposed to experimental P₀₄ - fertilization.
- PONTIN, R. M.--Distribution, records, and keys for British Rotifera, especially for the planktonic ones. Ecology of rotifers in an English canal.
- POURRIOT, R.--Biology and ecology of Rotifers: population dynamics (duration of embryonic and post-embryonic development, generation time, intrinsic rate of increase), trophic relations, predator-prey relationships, and determination of sexual reproduction (photoperiodism, population density, temperature). Current research not yet published: influence of population density on the production of mictic females in Notommata copeus; predator-prey relationships (Asplanchna-Brachionus); population dynamics in Brachionus inermis, B. bidentatus, and B. plicatilis.
- PRAY, F. A.--Studies on the life history of rotifers, with special emphasis on the early embryology and the development up to and including hatching.

- PREISSLER, A. K.--Okologische Studien. Orientierungsphysiologische Untersuchungen zum Problem der "Uferflucht" ("avoidance of shore") bei Pelagialrotatorien.
- PRINS, R.--Limnological survey work.
- RADWAN, S.--Taxonomy and ecology of Rotatoria. Dependence of species on the major environmental factors. Rotifers as indicators of lake trophy. Biomass and productivity of Rotatoria in lakes.
- RAKE, A.--Memory and learning in rotifers and other organisms.
- REED, J. V.--Trying to culture as many species as possible from Cephalodella and Trichocerca groups and also to find means of storing cultures (e.g. as resting eggs). Long term objective is to compare diets, tolerances and requirements of closely related species.
- ROBOTTI, C.--Sex determination of rotifers.
- RONNEBERGER, D.--Untersuchungen zur Systematik und Ökologie der Rotatorien. Bau der Kauer bei Brachionus und Asplanchna Arten.
- RUTTNER-KOLISKO, A.--Life histories, and the food and temperature dependency of Brachionus plicatilis, B. calyciflorus, Hexarthra fennica, and Keratella cochlearis. Reproductive rates of Brachionus plicatilis and Hexarthra fennica in relation to ionic strength and composition. Cartesian diver measurements of rotifer metabolism. Vertical distribution of rotifers in Lunz Upper Lake related to oxygen depletion.
- SCHABER, P.--Das zooplankton des Piburger Sees, das hauptsächlich aus Rotatorien besteht. Es wird eine Populationsdynamik der wichtigsten Arten, Polyarthra spp, Keratella quadrata, Asplanchna priodonta, Filinia longiseta und Synchaeta spp. versucht.
- SCHADEN, R.--Untersuchung von Planktonproben (im Institut vorhanden) aus Amazonien, zur Auswärtung für das systematische Stadium der Rädertiere Amazoniens und zur Aufstellung von Assoziationsdiagrammen.
- SCHMERENBECK, W.--Quantitative Zooplanktonuntersuchungen an Gewässern aller Typen. Saprobitätsindikation bdelloider u.a. Rotatorien.
- SCHULTE, H.--Pollution control. The faunistics, systematics and ecology of rotifers.
- SERAFIMOVA-HADŽIŠČE, J.--Ecological studies on the zooplankton of Lake Ohrid and Lake Prespa, in Yugoslavia, and of some lakes in Greece. These researches involve the annual cycles, the periodicity, the vertical and horizontal distribution, and the reproduction of some planktonic rotifer species.
- SERRA, A. G.--Ecology of rotifers in Spanish lakes -- distribution, competitive interactions, and indicators of lake type.

- SETH, V.--Embryology of the rotifer Asplanchna brightwelli, with special reference to chromosomes and vitamin E during initiation of sexual reproduction. The studies involve histochemical and autoradiographic techniques.
- SLÁDEČEK, V.--Rotifers as indicators of saprobity. Speciation within the genus Collotheca. Rotifers as constituents of the community of activated sludge.
- STEMBERGER, R.--Seasonal, horizontal and vertical distribution of the planktonic rotifers of Lake Michigan. Taxonomic problems in the genus Synchaeta, i.e. lackowitziana-oblonga -- possible introgression and seasonal changes in the trophi.
- STĚPÁNEK, M.--Ecology and production of rotifers.
- STORCH, V.--Receptors of rotifers and other invertebrates.
- STOUT, V. M.--Population dynamics, productivity and distribution of species present in several New Zealand lakes in conjunction with general limnological studies.
- SUDZUKI, M.--New systematic approach to Rotatoria. Valid criteria for the classification of rotifers. Systematic and ecological studies on interstitial rotifers. Rotifers of the paddy fields in Southeast Asia. Nuclear constancy in rotifers. Affinities of the Rotifera with the Archiannelida, Gastrotricha, and Turbellaria.
- THOMASSON, K.--Taxonomy, ecology and distribution of freshwater, planktonic rotifers.
- TIEFENBACHER, L.--Ecology of sessile, tube-building rotifers. Special interests are tube-building, reproduction, and factors affecting the distribution of these species.
- VANCIL, J. E.--Laboratory cultivation of several limnetic and limnetic-littoral species to learn more about their life history characteristics and to use them in toxicity work. The position of variously specialized rotifers in the energy and material economy of lakes. Currently, as regards toxicity, 2,4,5,-T (herbicide) is being investigated. I expect to continue this work for some time and hope ultimately to check on the concentration of this herbicide through trophic levels, doing the quantitative analysis with gas chromatography.
- VASISHT, H. S.--Ecology and anatomy of rotifers.
- VRONOVSKY, M.--Die qualitative Zusammensetzung und die Abundanz der Rotatorien und Entomostraken im Potamoplankton der Donau und deren Nebenarmen. Der Einfluss der Strömungsgeschwindigkeit auf die Zusammensetzung des Donauzooplanktons. Die Bedeutung der Gewässer des Inundationsgebietes auf das Zooplankton des Donauhauptstromes.

WALLACE, R. L.--Substrate specificity of sessile rotifers: mechanisms and adaptive significance of substrate site selection by the larvae of sessile rotifers. Population structure and sexuality of sessile rotifers. Feeding mechanisms of sessile rotifers.

WHITE, R. W. G.--Population dynamics of planktonic rotifers in eutrophic ponds containing different densities of fish. Production ecology of planktonic rotifers in small ponds.

WURDAK, E. S.--Ultrastructure and histochemistry of the digestive system of female Asplanchna sieboldi and of the rudimentary gut of the male of this species.

ZUREK, R.--Production of some rotifer species in ponds fertilized with nitrogen and phosphorus. Evaluation of some bioenergetical parameters in the presence of mineral suspensions. The cartesian diver and C^{14} techniques are employed.

Addendum

SALT, G. W.--Food chain dynamics of several sympatric species of Asplanchna in the Sacramento-San Joaquin delta, California.

Items for First Issue

I. Requests

1. F. A. Domenech would appreciate information about the cultivation of marine or mixohaline rotifer species. For example, which species can be cultured and what culture techniques are used?

2. W. T. Edmondson would like preserved material of Hexarthra from saline lakes.

II. Notices

1. J. P. K. Horkan has available a list of Irish rotifers.

2. R. W. Pennak has several copies that he would be willing to sell of: "The rotifer fauna of Wisconsin. V. The genera Euchlanis and Monommata," by F. J. Myers (1930).

3. A. Ruttner-Kolisko's monograph on plankton rotifers is now published (in German) in Die Binnengewässer XXVI/1, pp. 99-233. It contains a section on their biology and an extensive, illustrated key to species. Dr. Ruttner-Kolisko is now preparing an English version and would appreciate any comments and suggestions.

4. Several rotiferologists suggested that there be a meeting for rotifer investigators. Would anyone like to organize such an event?

5. Several rotiferologists suggested that reprints of articles published by subscribers of "Rotifer News" be sent to all of those on the mailing list of this newsletter. If possible, let us try to do this.

6. Many people indicated on the questionnaire that they would like to have abstracts printed in the newsletter. I suggest that only abstracts of articles in preparation or in press be printed, because the abstracts of published papers can be obtained either from the journals or directly from the authors. Perhaps, abstracts could be submitted to me whenever an article is submitted to a journal or at least as soon as the article has been accepted for publication. In this way we might become aware of each others work before it actually appears in the journals.

7. To keep everyone up to date on each others research activities please submit to me from time to time a summary of what you are doing.

8. Will all those rotiferologists currently engaged in the systematic revision or treatment of a group please submit the pertinent information to me. At present, I am aware only that W. Koste is preparing a monograph on Ptygura.

9. Please submit to me a list of rotifer species that you have in long-term, laboratory culture. This list will be very useful in obtaining cultures for experimental work and was requested in several of the questionnaires.

III. Notes

1. A. S. Bogoslovsky has briefly summarized below some of his recent work on rotifer resting eggs, published in the Bulletin of the Moscow Society of Nature Investigators, Section of Biology, volumes 68: 50-67 (1963), 72: 46-67 (1967), and 74: 60-79 (1969). All articles are in Russian with English summaries.

The morphology and development of the resting eggs of eleven different species of rotifers are described; 26 line drawings are presented. Within a species there may be a strongly pronounced variability of the shell structure, the color, and the dimensions of resting eggs. The dimorphism and polymorphism of resting eggs is in most cases caused by the underdevelopment of the shell of some eggs.

The development of resting eggs was observed, taking into account the influence of freezing and drying. The duration of the period of rest is less dependent on the influence of the environment on the egg than on the morphological variability and physiological differences among the eggs themselves. Thus, rotifers do not hatch simultaneously but in separate groups. This irregularity is thought to be an adaptation to "catching" the environmental conditions a species needs for its reproduction.

Monocyclicity in the reproduction of rotifers occurs in those species in which all of the resting eggs have a long period of rest (6 to 9 months). This uniformity of hatching is caused by the absence (or insignificance) of variability in characters which may influence egg development. When within a year we find in a water reservoir two or more periods of bisexual reproduction for a rotifer species, it is difficult to tell whether it is dicyclicity or polycyclicity, because the period(s) following the first one may have no connection whatever with the population of that year: they may be caused by the appearance of females from resting eggs oviposited in a previous year. If a second period is caused in this way, for example, one may mistakenly think that the rotifer is a dicyclic one (when, in fact, this is a false dicyclicity).

To determine whether we are dealing with a true or false dicyclicity or polycyclicity one must know the origin of the resting eggs (i.e. when these eggs were formed) from which the sexually reproducing population was derived.

IV. Bibliography

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ROTIFER SYMPOSIUM

During the 19th Congress of the Societas Internationalis Limnologiae, held at Winnipeg, Canada from 22-29 August, there was a brief meeting of rotifer investigators. We considered the possibility of having a 3- or 4-day symposium on rotifers sometime in September 1976. Dr. Agnes Ruttner-Kolisko kindly suggested that this symposium might be held at Lunz, Austria. This proposed symposium on rotifers has already been endorsed by the Societas Internationalis Limnologiae. The purpose of this circular is to attempt to determine the size and nature of this symposium.

We agreed that the meeting should not be too large (for example, 20-30 investigators) and should be attended only by scientists working specifically with rotifers and intending to actively contribute. The symposium could contain invited lectures, contributed papers, films, and various informal workshops, discussions, and field trips. It is possible that lectures and papers could be published.

To help plan this symposium please fill out the enclosed questionnaire as soon as possible and return it to me, via airmail if you are not in North America. The results of these questionnaires will be summarized in the next issue of Rotifer News, which should be out by January 1975.

Sincerely,

John J. Gilbert