

Curriculum Vitae of John J. Gilbert

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Born July 18, 1937, Southampton, New York.
B.A. with Honors in Biology, June 1959, Williams College.
Ph.D. in Biology, June 1963, Yale University.
NIH Postdoctoral Fellow, 1963-64, Department of Zoology, University of Washington.
Assistant Professor, 1964-1966, Department of Biology, Princeton University.
Assistant Professor, 1966-1969, Department of Biological Sciences, Dartmouth College.
Associate Professor, 1969-1974, Department of Biological Sciences, Dartmouth College.
Professor, 1974-2004, Department of Biological Sciences, Dartmouth College.
Professor Emeritus, 2004-present, Department of Biological Sciences, Dartmouth College.

Memberships in Scientific Societies

American Society of Zoologists (1964-1988).
Ecological Society of America (1964-present).
American Society of Limnology and Oceanography (1964-present).
International Association of Theoretical and Applied Limnology (1964-present).
American Association for the Advancement of Science (1963-present, Fellow).

Editorial Activities

Editorial Board of *Oecologia* (1968-1977, 1989-1992).
Editor of *Rotifer News*, an international newsletter for rotifer investigators with a circulation of about 300 (1973-1981).
Editor, with E. Lubzens and M.R. Miracle, Proceedings of the sixth rotifer symposium, Banyoles, Spain, 1991. *Hydrobiologia* **255/256** (1993).
Editor, with V. Alekseev and B. De Stasio, *Diapause in aquatic invertebrates: role for ecology, physiology, and human uses*. Kluwer Academic Publishers, Dordrecht, The Netherlands. (2006).
Editor, with N. Walz, R. Adrian, M.T. Monaghan, G. Weithoff and H. Zimmermann-Timm, Proceedings of the twelfth rotifer symposium, Berlin, Germany, 2009. *Hydrobiologia* **662** (2011).

Fellowships and Awards

1963-1964. NIH Postdoctoral Fellowship F2 GM-20, 171-01, to study environmental controls of rotifer development with W.T. Edmondson, Department of Zoology, University of Washington.
1973-1978. NIH Career Development Award K04 GM 70557, Vitamin E: new bioassay, role in rotifers, new compound.

1997. William Evans Visiting Fellowship, Department of Zoology, University of Otago, New Zealand.
2003. Lifetime Achievement Award, American Society of Limnology and Oceanography.

Publications: Research Papers

- Gilbert, J.J. 1963. Mictic female production in the rotifer *Brachionus calyciflorus*. J. Exp. Zool. **153**: 113-124.
- Gilbert, J.J. 1963. Contact chemoreception, mating behaviour, and sexual isolation in the rotifer genus *Brachionus*. J. Exp. Biol. **40**: 625-641.
- Gilbert, J.J. 1966. Rotifer ecology and embryological induction. Science **151**: 1234-1237.
- Gilbert, J.J. 1967. Control of sexuality in the rotifer *Asplanchna brightwelli* by dietary lipids of plant origin. Proc. Natl. Acad. Sci. USA **57**: 1218-1225.
- Gilbert, J.J. 1967. *Asplanchna* and posterolateral spine production in *Brachionus calyciflorus*. Arch. Hydrobiol. **64**: 1-62.
- Gilbert, J.J. and J.K. Waage. 1967. *Asplanchna*, *Asplanchna*-substance and posterolateral spine length variation of the rotifer *Brachionus calyciflorus* in a natural environment. Ecology **48**: 1027-1031.
- Gilbert, J.J. 1968. Dietary control of sexuality in the rotifer *Asplanchna brightwelli* Gosse. Physiol. Zool. **41**: 14-43.
- Gilbert, J.J. and G.A. Thompson, Jr. 1968. Alpha-tocopherol control of sexuality and polymorphism in the rotifer *Asplanchna*. Science **159**: 734-736.
- Gilbert, J.J. 1970. Monoxenic cultivation of the rotifer *Brachionus calyciflorus* in a defined medium. Oecologia **4**: 89-101.
- Likens, G.E. and J.J. Gilbert. 1970. Notes on quantitative sampling of natural populations of planktonic rotifers. Limnol. Oceanogr. **15**: 816-820.
- Gilbert, J.J. 1971. Some notes on the control of sexuality in the rotifer *Asplanchna sieboldi*. Limnol. Oceanogr. **16**: 309-319.
- Gilbert, J.J. and C.W. Birky, Jr. 1971. Sensitivity and specificity of the *Asplanchna* response to dietary α -tocopherol. J. Nutrition **101**: 113-126.
- Birky, C.W., Jr. and J.J. Gilbert. 1972. Vitamin E as an extrinsic and intrinsic signal controlling development in the rotifer *Asplanchna*: uptake, transmission, and localization of [^3H] α -tocopherol. J. Embryol. exp. Morphol. **27**: 103-120.

- Gilbert, J.J. 1972. α -Tocopherol in males of the rotifer *Asplanchna sieboldi*: its metabolism and its distribution in the testis and rudimentary gut. *J. Exp. Zool.* **181**: 117-128.
- Riggs, L.A. and J.J. Gilbert. 1972. The labile period for α -tocopherol-induced mictic female and body wall outgrowth responses in embryos of the rotifer *Asplanchna sieboldi*. *Int. Rev. ges. Hydrobiol.* **57**: 675-683.
- Simpson, T.L. and J.J. Gilbert. 1973. Gemmulation, gemmule hatching, and sexual reproduction in fresh-water sponges. I. The life cycles of *Spongilla lacustris* and *Tubella pennsylvanica*. *Trans. Amer. Micros. Soc.* **92**: 422-433.
- Gilbert, J.J. and H.L. Allen. 1973. Studies on the physiology of the green freshwater sponge *Spongilla lacustris*: primary productivity, organic matter, and chlorophyll content. *Verh. Int. Ver. Limnol.* **18**: 1413-1420.
- Gilbert, J.J. and H.L. Allen. 1973. Chlorophyll and primary productivity of some green, freshwater sponges. *Int. Rev. ges. Hydrobiol.* **58**: 633-658.
- Gilbert, J.J. 1973. The significance of polymorphism in the rotifer *Asplanchna*. Humps in males and females. *Oecologia* **13**: 135-146.
- Gilbert, J.J. 1973. The induction and ecological significance of gigantism in the rotifer *Asplanchna sieboldi*. *Science* **181**: 63-66.
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- Gilbert, J.J. 1974. Effect of tocopherol on the growth and development of rotifers. *Amer. J. Clin. Nutr.* **27**: 1005-1016.
- Gilbert, J.J. 1974. Field experiments on sexuality in the freshwater sponge *Spongilla lacustris*. The control of oocyte production and the fate of unfertilized oocytes. *J. Exp. Zool.* **188**: 165-178.
- Gilbert, J.J. 1974. Polymorphism in the rotifer *Asplanchna sieboldi*. Variability in the body-wall-outgrowth response to dietary tocopherol. *Physiol. Zool.* **48**: 404-419.
- Gilbert, J.J., T.L. Simpson, and G. de Nagy. 1975. Field experiments on egg production in the freshwater sponge *Spongilla lacustris*. *Hydrobiologia* **46**: 17-27.
- Gilbert, J.J. 1975. Polymorphism and sexuality in the rotifer *Asplanchna*, with special reference to the effects of prey-type and clonal variation. *Arch. Hydrobiol.* **75**: 442-483.

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