

## A selected list of the published writings of Tracy M. Sonneborn

The following references, compiled from among 216 publications to date, have been selected as representative of the breadth and productivity of Sonneborn's career. It should be noted that many of his important discoveries have been announced solely in abstracts.

- SONNEBORN, T. M. (1930). Genetic studies on *Stenostomum incaudatum* (nov. spec.). I. The nature and origin of differences among individuals formed during vegetative reproduction. *Journal of Experimental Zoology* **57**, 57–108.
- SONNEBORN, T. M. (1930). Genetic studies on *Stenostomum incaudatum*. II. The effects of lead acetate on hereditary constitution. *Journal of Experimental Zoology* **57**, 409–439.
- SONNEBORN, T. M. (1931). McDougall's Lamarckian experiment. *American Naturalist* **65**, 541–550.
- SONNEBORN, T. M. (1932). Experimental production of chains and its genetic consequences in the ciliate protozoan *Colpidium campylum*. *Biological Bulletin* **63**, 187–211.
- SONNEBORN, T. M. & LYNCH, R. S. (1932). Racial differences in the early physiological effects of conjugation in *Paramecium aurelia*. *Biological Bulletin* **62**, 258–293.
- SONNEBORN, T. M. & LYNCH, R. S. (1934). Hybridization and segregation in *Paramecium aurelia*. *Journal of Experimental Zoology* **67**, 1–72.
- SONNEBORN, T. M. (1937). Sex, sex inheritance and sex determination in *Paramecium aurelia*. *Proceedings of the National Academy of Sciences, U.S.A.* **23**, 378–385.
- SONNEBORN, T. M. (1938). Mating types in *Paramecium aurelia*: diverse conditions for mating in different stocks; occurrence, number and interrelations of the types. *Proceedings of the American Philosophical Society* **79** 411–434.
- SONNEBORN, T. M. (1939). *Paramecium aurelia*: mating types and groups; lethal interactions; determination and inheritance. *American Naturalist* **73**, 390–413.
- SONNEBORN, T. M. (1942). Inheritance in ciliate protozoa. *American Naturalist* **76**, 46–62.
- SONNEBORN, T. M. & DIPPELL, R. V. (1943). Sexual isolation, mating types, and sexual responses to diverse conditions in variety 4, *Paramecium aurelia*. *Biological Bulletin* **85**, 36–43.
- SONNEBORN, T. M. (1943). Gene and cytoplasm. I. The determination and inheritance of the killer character in variety 4 of *Paramecium aurelia*. *Proceedings of the National Academy of Sciences, U.S.A.* **29**, 329–338.
- SONNEBORN, T. M. (1943). Gene and cytoplasm. II. The bearing of the determination and inheritance of characters in *Paramecium aurelia* on the problems of cytoplasmic inheritance, pneumococcus transformations, mutations and development. *Proceedings of the National Academy of Sciences, U.S.A.* **29**, 338–343.
- SONNEBORN, T. M. (1945). The dependence of the physiological action of a gene on a primer and the relation of primer to gene. *American Naturalist* **79**, 318–339.
- SONNEBORN, T. M. & DIPPELL, R. V. (1946). Mating reactions and conjugation between varieties of *Paramecium aurelia* in relation to conceptions of mating type and variety. *Physiological Zoology* **19**, 1–18.
- SONNEBORN, T. M. (1946). Experimental control of the concentration of cytoplasmic genetic factors in *Paramecium*. *Cold Spring Harbor Symposium on Quantitative Biology* **11**, 236–255.
- SONNEBORN, T. M. (1947). Recent advances in the genetics of *Paramecium* and *Euplotes*. *Advances in Genetics* **1**, 264–358.
- SONNEBORN, T. M. (1947). Developmental mechanisms in *Paramecium*. *Growth Symposium*. **11**, 291–307.
- SONNEBORN, T. M. (1948). The determination of hereditary antigenic differences in genically identical *Paramecium* cells. *Proceedings of the National Academy of Sciences, U.S.A.* **34**, 413–418.

- SONNEBORN, T. M. & LESUER, A. (1948). Antigenic characters in *Paramecium aurelia* (variety 4): determination, inheritance and induced mutations. *American Naturalist* **82**, 69–78.
- SONNEBORN, T. M. (1949). Beyond the gene. *American Scientist*, **37**, 33–59.
- SONNEBORN, T. M. (1949). Ciliated protozoa: cytogenetics, genetics, and evolution. *Annual Review of Microbiology*, pp. 55–80.
- SONNEBORN, T. M. (1950). Methods in the general biology and genetics of *Paramecium aurelia*. *Journal of Experimental Zoology* **113**, 87–148.
- SONNEBORN, T. M. (1950). The cytoplasm in heredity. *Heredity* **4**, 11–36.
- SONNEBORN, T. M. (1950). Heredity, environment, and politics. *Science* **111** (2890): 529–539.
- SONNEBORN, T. M. (1950). Cellular transformation. *Harvey Lecture Series* **44**, 145–164.
- SONNEBORN, T. M. (1951). The role of the gene in cytoplasmic inheritance. Chapter 14 of *Genetics in the 20th Century* (ed. by L. C. Dunn). New York: MacMillan.
- SONNEBORN, T. M. (1951). Some current problems of genetics in the light of investigations on *Chlamydomonas* and *Paramecium*. *Cold Spring Harbor Symposium on Quantitative Biology* **16**, 483–503.
- SONNEBORN, T. M. (1952). Problems of tumors in relation to studies on *Paramecium*. *Proceedings of the IIInd National Cancer Conference*, pp. 1139–1147.
- SONNEBORN, T. M. (1954). The relation of autogamy to senescence and rejuvenescence in *Paramecium aurelia*. *Journal of Protozoology* **1**, 38–53.
- SONNEBORN, T. M. (1954). Patterns of nucleocytoplasmic integration in *Paramecium*. *Caryologia*, vol. suppl., pp. 307–325.
- SONNEBORN, T. M. (1955). Heredity, development and evolution in *Paramecium*. *Nature* **175**, 1100.
- SONNEBORN, T. M. (1957). Breeding systems, reproductive methods, and species problems in Protozoa. In *The Species Problem* (ed. by E. Mayr), pp. 155–324. American Association for the Advancement of Science.
- SONNEBORN, T. M. (1960). The gene and cell differentiation. *Proceedings of the National Academy of Sciences, U.S.A.* **46**, 149–165.
- SONNEBORN, T. M. (1960). Some comments on the general biological situation with regard to aging. In *The Biology of Aging* (ed. by B. L. Strehler), pp. 279–280. American Institute of Biological Sciences, publication no. 60.
- SONNEBORN, T. M. (1960). Tests and critique of some theories of aging. In *The Biology of Aging* (ed. by B. L. Strehler), pp. 281–282. American Institute of Biological Sciences.
- SONNEBORN, T. M. & DIPPELL, R. V. (1960). Cellular changes with age in *Paramecium*. In *The Biology of Aging* (ed. by B. L. Strehler), pp. 285. American Institute of Biological Sciences.
- SONNEBORN, T. M. & SCHNELLER, M. V. (1960). Age-induced mutations in *Paramecium*. In *The Biology of Aging* (ed. by B. L. Strehler), pp. 286–287. American Institute of Biological Sciences.
- SONNEBORN, T. M. (1960). The human early foetal death rate in relation to age of father. In *The Biology of Aging* (ed. by B. L. Strehler), p. 288. American Institute of Biological Sciences.
- SONNEBORN, T. M. (1960). Enormous differences in length of life of closely related ciliates and their significance. In *The Biology of Aging* (ed. by B. L. Strehler), p. 289. American Institute of Biological Sciences.
- SONNEBORN, T. M. & SCHNELLER, M. V. (1960). Measures of the rate and amount of aging on the cellular level. In *The Biology of Aging* (ed. by B. L. Strehler), pp. 290–291. American Institute of Biological Sciences.
- SONNEBORN, T. M. & SCHNELLER, M. V. (1960). Physiological basis of aging in *Paramecium*. In *The Biology of Aging* (ed. by B. L. Strehler), pp. 283–284. American Institute of Biological Sciences.
- SONNEBORN, T. M. (1963). Does preformed cell structure play an essential role in cell heredity? In *The Nature of Biological Diversity* (ed. by J. M. Allen), pp. 165–221. New York: McGraw-Hill.
- SONNEBORN, T. M. (1963). Implications of the new genetics for biology and man. *American Institute of Biological Sciences Bulletin* **13**, 22–26.
- SONNEBORN, T. M. (1963). Bearing of protozoan studies on current theory of genic and cytoplasmic action. *Proceedings XVIIth International Congress of Zoology* **3**, 197–202.

- SONNEBORN, T. M. (1964). The differentiation of cells. *Proceedings of the National Academy of Sciences, U.S.A.* **51**, 915–929.
- SONNEBORN, T. M. (1965). Degeneracy of the genetic code: extent, nature and genetic implication. In *Evolving Genes and Proteins* (ed. by V. Bryson and H. J. Vogel), pp. 377–397. New York: Academic Press.
- SONNEBORN, T. M. (1965). Editor of *The Control of Human Heredity and Evolution*. New York: Macmillan Company.
- BEISSON, J. and SONNEBORN, T. M. (1965). Cytoplasmic inheritance of the organization of the cell cortex in *Paramecium aurelia*. *Proceedings of the National Academy of Sciences, U.S.A.* **53**, 275–282.
- SONNEBORN, T. M. (1965). Nucleotide sequence of a gene: first complete specification. *Science* **148** (3676), 1410.
- SONNEBORN, T. M. (1965). Genetics and man's vision. *Proceedings of the American Philosophical Society* **109**, 237–241.
- SONNEBORN, T. M. (1965). The metagon: RNA and cytoplasmic inheritance. *American Naturalist* **46** (907), 279–307.
- SONNEBORN, T. M. (1966). Genetics of the protozoa. *Genetika* **11**, 31–41.
- SONNEBORN, T. M. (1966). Models for somatic cell variation based on studies of ciliate protozoa. Proceedings of the Mendel Centennial Celebration, Czechoslovakian Academy of Science, Prague, *Genetic Variations in Somatic Cells*, pp. 87–97.
- SONNEBORN, T. M. (1967). The evolutionary integration of the genetic material into genetic systems. Chapter 19 of *Heritage from Mendel* (ed. by R. A. Brink), pp. 375–402. Madison, Wisconsin: University of Wisconsin Press.
- SONNEBORN, T. M. (1969). Man's choices. In *Genetic Engineering* (ed. by D. Paterson), BBC Publication.
- SONNEBORN, T. M. (1970). Methods in paramecium research. In *Methods of Cell Physiology*, vol. 4 (ed. by D. M. Prescott), pp. 241–339. New York and London: Academic Press.
- SONNEBORN, T. M. (1970). Gene action in development. *Proceedings of the Royal Society (London)* B **176**, 347–366.
- SONNEBORN, T. M. (1973). Ethical issues arising from the possible uses of genetic knowledge. In *Ethical Issues in Human Genetics* (ed. by B. Hilton, D. Callahan, M. Harris, P. Condliffe and B. Berkley), pp. 1–6. New York and London: Plenum Press.
- SONNEBORN, T. M. (1974). Ciliate morphogenesis and its bearing on general cellular morphogenesis. *Actualités Protozoologiques*, vol. 1 (ed. by P. De Puytorac and J. Grain), pp. 337–355. Résumé des discussions des tables rondes du 4th Congress International de Protozoologie, Clermont-Ferrand, France, 1973.
- SONNEBORN, T. M. (1974). *Tetrahymena pyriformis*. In *Handbook of Genetics*, vol. 2 (ed. by R. C. King), pp. 433–467. New York and London: Plenum Press.
- SONNEBORN, T. M. (1974). *Paramecium aurelia*. In *Handbook of Genetics*, vol. 2 (ed. by R. C. King), pp. 469–594. New York and London: Plenum Press.
- SONNEBORN, T. M. (1975). The *Paramecium aurelia* complex of fourteen sibling species. *Transactions of the American Microscopical Society* **94**, 155–178.
- SONNEBORN, T. M. (1975). Cell differentiation and communication: patterns, problems and probes. *Microbiology* (in the Press).