

George Ledyard Stebbins

Bibliography

George Ledyard Stebbins—Bibliography

- (1) 1929 Further additions to the Mt. Desert Flora. *Rhodora* **31**, 81-87.
- (2) 1929 *Lomatogonium rotatum* (L.) Fries in Maine. *Rhodora* **31**, 143.
- (3) 1929 Some interesting plants from Mt. Katahdin. *Rhodora* **31**, 142-143.
- (4) 1930 An interesting form of *Eupatorium perfoliatum*. *Rhodora* **32**, 132-133.
- (5) 1930 Contributions from the Gray Herbarium of Harvard University--No. LXXXVII: III. A revision of some North American species of *Calamagrostis*. *Rhodora* **32**, 35-57.
- (6) 1932 Some interesting plants from the North Shore of the St. Lawrence. *Rhodora* **34**, 66-67.
- (7) 1932 Cytology of *Antennaria*. I. Normal Species. *Botanical Gazette* **94**, 134-151.
- (8) 1932 Cytology of *Antennaria*. II. Parthenogenetic species. *Botanical Gazette* **94**, 322-345.
- (9) 1934 (With G.C. Hicks) Meiosis in some species and a hybrid of *Paeonia*. *Am. J. Bot.* **21**, 228-241.
- (10) 1935 Some observations on the flora of the Bruce Peninsula, Ontario. *Rhodora* **37**, 63-74.
- (11) 1935 A new species of *Antennaria* from the Appalachian region. *Rhodora*, **37**, 229-237.
- (12) 1936 A note on species differentiation in *Antennaria*. *Rhodora*, **38**, 367-369.
- (13) 1936 Two new species of *Lactuca* from tropical Africa. *Bulletin du Jardin Botanique de L'État* **14**, 223-226.
- (14) 1937 The Genus *Youngia*. Carnegie Inst. Washington, Washington, D.C.
- (15) 1937 Critical notes on *Lactuca* and related genera. *J. Bot.* January, 1937: 12-18.
- (16) 1937 Critical notes on the genus *Ixeris*. *J. Bot.* February, 1937: 43-51.
- (17) 1937 (With E.B. Babcock, E. B., & J. A. Jenkins) Chromosomes and phylogeny in some genera of the Cypripinae. *Cytologia*. Fujii Jubilee Volume: 188-210.
- (18) 1937 The scandent species of *Prenanthes* and *Lactuca* in Africa. *Bulletin du Jardin Botanique de L'État* **14**, 333-352.
- (19) 1938 (With A.P. Saunders) Cytogenetic studies in *Paeonia*. I. The compatibility of the species and the appearance of the hybrids. *Genetics* **23**, 65-82.
- (20) 1938 Cytogenetic studies in *Paeonia*. II. The cytology of the diploid species and hybrids. *Genetics* **23**, 83-110.
- (21) 1938 A bleaching and clearing method for plant tissues. *Science* **87**, 21-22.
- (22) 1938 An anomalous new species of *Lapsana* from China. *Madroño* **4**, 154-157.
- (23) 1938 Cytological characteristics associated with the different growth habits in the dicotyledons. *Am. J. Bot.* **25**, 189-198.
- (24) 1938 The Western American Species of *Paeonia*. *Madroño* **4**, 252-260.
- (25) 1938 (With E.B. Babcock) The American species of *Crepis*: their interrelationships and distribution as affected by polyploidy and apomixis. *Carnegie Inst. Wash. Pub.* **504**, Washington, D. C.
- (26) 1938 (With C. W. Young.) *The Human Organism and the World of Life*. New York, Harper and Brothers.
- (27) 1939 Notes on some systematic relationships in the genus *Paeonia*. *University of California Publications in Botany* **19**, 245-266.
- (28) 1939 (With S. Ellerton.) Structural hybridity in *Paeonia californica* and *P. brownii*. *J. Genetics* **38**, 1-36.
- (29) 1939 (With E. B. Babcock) The effect of polyploidy and apomixis on the evolution of species in *Crepis*. *J. Hered.* **30**, 519-530.
- (30) 1939 (With J. A. Jenkins) Aposporic development in the North American species of *Crepis*. *Genetica* **21**, 191-224.
- (31) 1939 Notes on *Lactuca* in Western North America. *Madroño* **5**, 123-126.
- (32) 1939 Notes on some Indian species of *Lactuca*. *Indian Forest Records* **1**, 237-245.
- (33) 1940 The significance of polyploidy in plant evolution. *Am. Nat.* **74**, 54-66.
- (34) 1940 Studies in the Cichorieae: *Dubyaea* and *Sorozeris*, endemics of the Sino-Himalayan Region. *Memoirs of the Torrey Botanical Club* **19**, 5-76.
- (35) 1941 (With R. M. Love). A cytological study of California forage grasses. *Am. J. Bot.* **28**, 371-382.
- (36) 1941 Additional evidence for a holarctic dispersal of flowering plants in the Mesozoic era. *Proceedings of Sixth Pacific Science Congress*, pp. 649-660.
- (37) 1941 Apomixis in the angiosperms. *Bot. Rev.* **7**, 507-542.
- (38) 1941 (With R. M. Love). An undescribed species of *Stipa* from California. *Madroño* **6**, 137-141.
- (39) 1942 Polyploid complexes in relation to ecology and the history of floras. *Am. Nat.* **76**, 336-345.
- (40) 1942 (With E.B. Babcock, & J. A. Jenkins) Genetic evolutionary processes in *Crepis*. *Am. Nat.* **76**, 337-363.
- (41) 1942 The role of isolation in the differentiation of plant species. *Biological Symposia* **6**, 217-233.
- (42) 1942 The genetic approach to problems of rare and endemic species. *Madroño* **6**, 241-258.
- (43) 1942 The concept of genetic homogeneity as an explanation from the existence and behavior of rare and endemic species. *Chronica Botanica* **7**: 252-253.
- (44) 1943 (With E.B. Babcock) Systematic studies in the Cichorieae. *University of California Publications in Botany* **18**, 227-240.
- (45) 1943 (With E. Garber) The rate of root elongation in diploid and tetraploid sudan grass and rye. *Am. Nat.* **77**, 190-192.
- (46) 1944 Review of "Vegetation and Flora of Mount Diablo, California." *Ecology* **25**, 481-482.

- (47) 1944 (With H. A. Tobgy) The cytogenetics of hybrids in *Bromus*. I. Hybrids within the section *Ceratochloa*. *Am. J. Bot.* **31**,1-11.
- (48) 1944 (With H. A. Tobgy & J. R. Harlan) The cytogenetics of hybrids in *Bromus*. II. *Bromus carinatus* and *Bromus arizonicus*. *Proc. Calif. Acad. Sci.* **25**, 307-321.
- (49) 1944 (With Masuo Kodani) Chromosomal variation in *Guayule* and *Mariola*. *J. Hered.* **35**, 163-172.
- (50) 1945. Role of isolation in the differentiation of plant species. *Nature* **155**, 150-151.
- (51) 1945 Review of "Plant Evolution through Amphiploidy and Autoploidy." *Ecology* **26**, 420-421.
- (52) 1945 The cytological analysis of species hybrids. II. *Bot. Rev.* **11**, 463-86.
- (53) 1945 Evidence for abnormally slow rates of evolution, with particular reference to the higher plants and the genus *Drosophila*. *Lloydia* **8**, 84-102.
- (54) 1946 (With J. I. Valencia & R. M. Valencia) Artificial and natural hybrids in the Gramineae, tribe Hordeae. I. *Elymus*, *Sitanion*, and *Agropyron*. *Am. J. Bot.* **33**, 338-351.
- (55) 1946 (With J. I. Valencia & R. M. Valencia) Artificial and natural hybrids in the Gramineae, tribe Hordeae. II. *Agropyron*, *Elymus* and *Hordeum*. *Am. J. Bot.* **33**, 579-586.
- (56) 1947 Improved forage grasses to be put in field trials. *California Agriculture* **1**(4):1.
- (57) 1947 Types of polyploids: their classification and significance. *Adv. Genet.* **1**, 403-429.
- (58) 1947 Evidence on rates of evolution from the distribution of existing and fossil plants species. *Ecol. Monog.* **17**, 149-158.
- (59) 1947 (With E. B. Matzke & C. Epling. Hybridization in a population of *Quercus marilandica* and *Quercus ilicifolia*. *Evolution.* **1**, 79-88.
- (60) 1947 The origin of the complex *Bromus carinatus* and its phylogeographic implications. *Contributions to the Gray Herbarium* **165**, 42-55.
- (61) 1948 Review of "A Study of the Genus *Paeonia*." *Madroño* **9**, 193-199.
- (62) 1948 The chromosomes and relationships of *Metasequoia* and *Sequoia*. *Science* **108**, 95-98.
- (63) 1949 (With M. S. Walters) Artificial and natural hybrids in the Gramineae, tribe Hordeae. III. Hybrids involving *Elymus condensatus* and *E. triticoides*. *Am. J. Bot.* **36**, 291-301.
- (64) 1949 Asexual reproduction in relation to plant evolution. *Evolution* **3**, 98-101.
- (65) 1949 The evolutionary significance of natural and artificial polyploids in the family Gramineae. Proceedings of the Eighth International Congress of Genetics. *Hereditas* (Supplement): 461-485.
- (66) 1949 Rates of evolution in plants. In *Cry of the Environment* (ed. G. L. Jepsen, G. G. Simpson & Ernst Mayr), pp. 229-242. Princeton: Princeton University Press.
- (67) 1949 Speciation, evolutionary trends, and distribution patterns in *Crepis*. *Evolution* **3**, 188-93.
- (68) 1949 Reality and efficacy of selection in plants. *Proc. Am. Phil. Soc.* **93**, 501-513.
- (69) 1949 (With E. Paddock) The *Solanum nigrum* complex in Pacific North America. *Madroño* **10**, 70-81.
- (70) 1949 (With M. S. Walters) The evolutionary significance of two synthetic allopolyploid species of *Bromus*. *Portugaliae Acta Biologica, Serie A*, pp. 106-136.
- (72) 1950 (With Ranjit Singh) Artificial and natural hybrids in the Gramineae, tribe Hordeae. IV. Two triploid hybrids of *Agropyron* and *Elymus*. *Am. J. Bot.* **37**, 338-93.
- (73) 1950 New grasses, drought-resistant strains of perennials developed for dry range lands. *California Agriculture* September 1950, 3 pp.
- (74) 1950 *Variation and Evolution in Plants*. New York: Columbia University Press.
- (75) 1951 Review of "Problems of Cytology and Evolution in the Pteridophyta." *Science* **113**, 533-535.
- (76) 1951 Push-button evolution. *Qu. Rev. Biol.* **26**, 191-93.
- (77) 1951 Cataclysmic evolution. *Sci. Am.* **184**, 54-59.
- (78) 1951 Natural selection and the differentiation of angiosperm families. *Evolution* **5**, 299-324.
- (79) 1952 Aridity as a stimulus to plant evolution. *Am. Nat.* **86**, 33-44.
- (80) 1952 Comments on literature in plant evolution. *Evolution* **6**, 131-33.
- (81) 1952 Pastos resistentes a la sequia. La Hacienda, N.Y., 1.
- (82) 1952 (With B.N. Duara) A polyphaploid obtained from a hybrid derivative of *Sorghum halapense* x *S. vulgare* var. *sudanense* *Genetics* **37**, 369-374.
- (83) 1952 Species hybrids in grasses. Proceedings of the 6th International Grassland Congress. **1**, 247-53.
- (84) 1952 The evolution of cultivated plants and weeds. *Evolution* **6**, 445-48.
- (85) 1952 Organic evolution and social evolution. *A University at Work* **11**, 3-7.
- (86) 1952 (With A. Varaama.) Chromosome behavior, fertility, and genetic segregation in synthetic allopolyploids between *Elymus glaucus* and *Sitanion*. *Genetics* **37**, 629-630.
- (87) 1953 Heterosis and evolution. *Evolution* **7**, 90-92.
- (88) 1953 A new classification of the tribe Cichorieae, family Compositae. *Madroño.* **12**, 33-64.
- (89) 1953 Plant phylogeny and evolution. *Evolution* **7**, 281-284.
- (90) 1953 *Asplenium viride* in California. *Madroño* **7**, 128.
- (91) 1953 Les processus de l'évolution aux hautes montagnes. *Etude Botanique de L'Etage Alpin Particulièrement en France*. Eighth International Botanical Congress.
- (92) 1953 (With J. A. Jenkins, & M. S. Walters) Chromosomes and phylogeny in the Compositae, tribe Cichorieae. *Univ. Calif. Press Publ. Botany* **26**, 401-430.

- (93) 1953 (With F. T. Pun) Artificial and natural hybrids in the Gramineae, tribe Hordeae. VI. Chromosome pairing in *Secale cereale* x *Agropyron intermedium* and the problem of genome homologies in the Triticinae. *Genetics* **38**, 600-608.
- (94) 1953 (With F. T. Pun). Artificial and natural hybrids in the Gramineae, tribe Hordeae. V. Diploid hybrids of *Agropyron*. *Am. J. Bot.* **40**, 444-449.
- (95) 1954 Review of "The Major Features of Evolution." *Science* **119**, 699-701
- (96) 1954 (With A. Vaarama). Artificial and natural hybrids in the Gramineae, tribe Hordeae. VII. Hybrids and allopolyploids between *Elymus glaucus* and *Sitanion* spp. *Genetics* **39**, 378-395.
- (97) 1954 (With E. Anderson) Hybridization as an evolutionary stimulus. *Evolution* **8**, 378-388.
- (98) 1954 (With S.G. Stokes) Chromosome numbers in the genus *Eriogonum*. *Leaflets of Western Botany* **7**, 228-233.
- (99) 1955 Memorial, Ernest Brown Babcock. *Madroño* **13**, 81-83.
- (100) 1955 Review of "Synthetische Artbildung." *Quart. Rev. Biol.* **30**, 384-385.
- (101) 1956 (With L. Ferlan) Population variability, hybridization, and introgression in some species of *Ophrys*. *Evolution* **10**, 32-46.
- (102) 1956 (With P. Sarkar. Morphological evidence concerning the origin of the B genome in wheat. *Am. J. Bot.* **43**, 297-304.
- (103) 1956 (With L. A. Snyder) Artificial and natural hybrids in the Gramineae, tribe Hordeae. IX. Hybrids between western and eastern North American species. *Am. J. Bot.* **43**, 305-312.
- (104) 1956. New look in Soviet genetics. *Science* **123**, 720-722.
- (105) 1956. Taxonomy and the evolution of genera, with special reference to the family Gramineae. *Evolution* **10**, 235-245.
- (106) 1956 Artificial polyploidy as a tool in plant breeding. Genetics in Plant Breeding, *Brookhaven Symposia in Biology*, **9**
- (107) 1956 Cytogenetics and the evolution of the grass family. *Am. J. Bot.* **43**, 890-905.
- (108) 1956 Regularities of transformation in the flower. *Evolution* **11**, 106-108.
- (109) 1957 O gibridnom proiskozhdenii pokrytosemennykh (On the hybrid origin of angiosperms). In Russian. *Botanical Journal of the Russian Academy* **42**, 1503-1506.
- (110) 1957 Cytology and cytogenetics. *J. Hered.* **18**, 153-154.
- (111) 1957 Self fertilization and population variability in the higher plants. *Am. Nat.* **91**, 337-354.
- (112) 1957 The inviability, weakness, and sterility of interspecific hybrids. *Adv. Gen.* **9**, 147-121.
- (113) 1957 The hybrid origin of microspecies in the *Elymus glaucus* complex. *Cytologia. Proceedings of the International Genetics Symposia*, 1956, pp. 336-340.
- (114) 1957 The use of plant breeding to increase the world's food supply. *Indian J. Genet. Plant Breed.* **17**, 121-128.
- (115) 1957 Genetics, evolution and plant breeding. *Indian J. Genet. Plant Breed.* **17**, 129-141.
- (116) 1957 The use of experimental data in floras and monographs. *VIII Congres International de Botanique*, pp. 186-192.
- (117) 1958 Longevity, habitat, and release of genetic variability in the higher plants. *Cold Spring Harbor Symp. Quant. Biol.* **23**, 365-378.
- (118) 1958 (With Popov, M. G.) Comments on the origin and phylogeny of the angiosperms, and on the hybrid origin of the angiosperms. *Evolution* **12**, 266-270.
- (119) 1959 The role of hybridization in evolution. *Proc. Am. Phil. Soc.* **103**, 231-251.
- (120) 1959 Genes, chromosomes, and evolution. *Vistas in Botany* pp. 258-290.
- (121) 1959 The synthetic approach to problems of organic evolution. *Cold Spring Harbor Symposia on Quantitative Biology* **24**, 305-311.
- (122) 1959 Seedling heterophylly in the California flora. *Bulletin Research Council of Israel* **7D**, 248-255.
- (123) 1959 Differences between the process of speciation in higher animals and plants. American Society of Zoologists, Refresher course for 1959, Pennsylvania State University.
- (124) 1959 (With D. Zohary) Cytogenetic and evolutionary studies in the genus *Dactylis*. I. Morphology, distribution, and interrelationships of the diploid subspecies. *Univ. Cal. Publ. Botany* **31**, 1-40.
- (125) 1960 The comparative evolution of genetic systems. In *Evolution after Darwin* (ed. Sol Tax) pp. 197-226. Chicago: University of Chicago Press.
- (126) 1960 Origins of angiospermous plants. *Evolution* **14**, 138-139.
- (127) 1960 (With S. K. Jain) Developmental studies of cell differentiation in the epidermis of monocotyledons. I. *Allium*, *Rhoeo*, and *Commelina*. *Developmental Biol.* **2**, 409-426.
- (128) 1960 (With S. S. Shah) Developmental studies of cell differentiation in the epidermis of monocotyledons. II. Cytological features of stomatal development in the Gramineae. *Devel. Biol.* **2**, 477-500.
- (129) 1960 (With C.M. McKell, C. M., & E. R. Perrier) Responses of two subspecies of orchardgrass (*Dactylis glomerata* subsp. *lusitanica* and *judaica*) to increasing soil moisture stress. *Ecology* **41**, 772-778.
- (130) 1961 (With G. S. Khush) Variation in the organization of the stomatal complex in the leaf epidermis of monocotyledons and its bearing on their phylogeny. *Am. J. Bot.* **48**, 51-59.
- (131) 1961 (With K. Daly) Changes in the variation pattern of a hybrid population of *Helianthus* over an eight-year period. *Evolution* **15**, 60-71.

- (132) 1961 (With G.S. Khush.) Cytogenetic and evolutionary studies in *Secale*. I. Some new data on the ancestry of *S. cereale*. *Am. J. Bot.* **48**, 723-730.
- (133) 1961 A diploid subspecies of the *Dactylis glomerata* complex from Portugal. *De Flora Lusitana Commentarii* **14**, 9-15.
- (134) 1961 (With B. Crampton) A suggested revision of the grass genera of temperate North America. In *Recent Advances in Botany*, pp. 133-145. Toronto: University of Toronto Press.
- (135) 1962 Toward better international cooperation in the life sciences. *Plant Science Bulletin* **8**, 8-10.
- (136) 1962 International horizons in the life sciences. *Am. Inst. Biol. Sci. Bull.*, pp. 13-19.
- (137) 1962 (With I. Sarkissian & S. S. Shah) Differences in free amino acid content of seedlings of awned and hooded barley, and their alteration by chloramphenicol treatment. *Proc. Natn. Acad. Sci.* **48**, 1513-1519.
- (138) 1962 (With D.V. Aryanayagam) Developmental studies of cell differentiation in the epidermis of monocotyledons. III. Interaction of environmental and genetic factors on somatal differentiation in three genotypes of barley. *Devel. Biol.* **4**, 117-133.
- (139) 1963 The dynamics of evolutionary change. *Lectures in Biological Sciences*, pp. 39-62. Knoxville: University of Tennessee Press.
- (140) 1963 Perspectives I. *Animal Species and Evolution* by Ernst Mayr, a review. *Amer. Sci.* **51**, 362-370.
- (141) 1963 (With B. L. Harvey, E. L. Cox, J. N. Rutger, G. Jelencovic & E. Yagil) Identification of the ancestry of an amphiploid *Viola* with the aid of paper chromatography. *Am. J. Bot.* **50**, 830-839.
- (142) 1963 (With E.A. Yagil) Environmental factors affecting the development and expression of the hooded phenotype in barley (abstract) *Am. J. Bot.* **50**, 619.
- (143) 1964 Four basic questions of plant biology. *Am. J. Bot.* **51**, 220-230.
- (144) 1964 The evolution of animal species. *Animal Species and Evolution*, by Ernst Mayr, a review. *Evolution* **18**, 134-137.
- (145) 1964 Modern evolutionary theory. *Origin of Adaptations* by Verne Grant, a review. *J. Hered.* **55**, 44.
- (146) 1964 (With R.T. Wijewantha) Developmental and biochemical effects of the agropyroides mutation in barley. *Genetics* **50**, 65-80.
- (147) 1965 The experimental approach to problems of evolution. *Folia Biologica* **11**, 1-10.
- (148) 1965 (With J. Major) Endemism and speciation in the California flora. *Ecol. Monog.* **35**, 1-35.
- (149) 1965 From gene to character in higher plants. *Amer. Sci.* **53**, 104-126.
- (150) 1965 Evolution of crop plants: a review of Sir Joseph Hutchinson, ed. *Essay on Crop Plant Evolution. J. Hered.* **56**, 60-61.
- (151) 1965 Pitfalls and guideposts in comparing organic and social evolution. *Pacific Sociological Review* **8**, 3-10.
- (152) 1965 The probable growth habit of the earliest flowering plants. *Ann. Miss. Bot. Gdn.* **52**, 457-468.
- (153) 1965 Some relationships between mitotic rhythm, nucleic acid synthesis, and morphogenesis in higher plants. In *Genetic Control of Differentiation, Brookhaven Symposia in Biology* **8**, 204-221.
- (154) 1965 Colonizing species of the native California flora. In *The Genetics of Colonizing Species* (ed. H. G. Baker & G. L. Stebbins), pp. 173-191. New York: Academic Press.
- (155) 1965 (With H.G. Baker) *The Genetics of Colonizing Species*. New York: Academic Press.
- (156) 1965 (With A. Day) Cytogenetic evidence for long-continued evolutionary stability in the genus *Plantago*. *Science* **150**, 371.
- (157) 1965 (With P. Jura) Differential synthesis of nucleic acids associated with cellular differentiation in the leaf sheath epidermis of barley. *Science* **150**, 385-386.
- (158) 1965 (With L.T. Dempster) The fleshy-fruited *Galium* species of California (Rubiaceae). I. Cytological findings and some taxonomic conclusions. *Madroño* **18**, 105-113.
- (159) 1966 Chromosomal variation and evolution. *Science* **152**, 1463-1469.
- (160) 1966 Variation and adaptation in Galápagos plants. In *The Galapagos: Proceedings of the Symposia of the Galapagos International Scientific Project* (ed. R. I. Bowman), pp. 46-54. Berkeley: University of California Press.
- (161) 1966 Polarity gradients and the development of cell form. In *Trends in Plant Morphogenesis* (ed. E. Cutter), pp. 115-126. New York: Longmans, Green.
- (162) 1966 *Processes of Organic Evolution*; 2nd ed., 1971; 3rd ed., 1977. Englewood Cliffs: Prentice Hall.
- (163) 1966 (With E. Yagil) The morphogenetic effects of the hooded gene in barley. I. The course of development in hooded and awned genotypes. *Genetics* **54**, 727-741.
- (164) 1967 Two symposiums on chromosomes: a review of "Chromosomes Today," by C. D. Darlington & K. R. Lewis, eds., 1964, and "Chromosome Manipulations and Plant Genetics," by R. Riley & K. R. Lewis, eds., 1964. *Science* **155**, 184-185.
- (165) 1967 (With S. S. Shah, D. Jamin, & P. Jura) Changed orientation of the mitotic spindle of stomatal guard cell divisions in *Hordeum vulgare*. *Am. J. Bot.* **54**, 71-80.
- (166) 1967 The place of botany in a unified science of biology. *BioScience* **17**, 83-87.
- (167) 1967 Adaptive radiation and trends of evolution in higher plants. In *Evolutionary Biology* (ed. Th. Dobzhansky, M. K. Hecht, & W. C. Steere) **1**, pp. 101-142. New York: Appleton-Century- Crofts.

- (168) 1967 (With A. Day) Cytogenetic evidence for long continued stability in the genus *Plantago*. *Evolution* **21**, 409-428.
- (169) 1967 Gene action, mitotic frequency, and morphogenesis in higher plants. *Developmental Biology* (Supplement) **1**, 113-135.
- (170) 1967 From gene to character in higher plants. In *Science in Progress, Sixteenth Series* (ed. W. R. Brode), pp. 239-271. New Haven: Yale University Press.
- (171) 1968 Integration of development and evolutionary progress. In *Population Biology and Evolution* (ed. R. C. Lewontin), pp. 17-36. Syracuse: Syracuse University Press.
- (172) 1968 The impact of modern genetics upon our understanding of life and of the future of mankind. *Journal of Mysore University*, Sect. B., Golden Jubilee Vol. **1-6**.
- (173) 1968 Present and potential contributions of developmental genetics to our understanding of plant evolution. *Proceedings of the XII International Congress of Genetics* **2**, 222.
- (174) 1968 (With L.T. Dempster) A cytotaxonomic revision of the fleshy-fruited *Galium* species of the Californias and Southern Oregon (Rubiaceae). *Univ. Cal. Publ. Bot.* **46**, 1-51.
- (175) 1969 The significance of hybridization for plant taxonomy and evolution. *Taxon* **18**, 26-35.
- (176) 1969 The effect of asexual reproduction on higher plant genera with special reference to *Citrus*. *Proceedings First International Citrus Symposium* **1**, 455-458.
- (177) 1969 Comments on the search for a "Perfect System." *Taxon* **18**, 357-359.
- (178) 1969 Developmental genetics and plant evolution. *Jap. J. Genet.* **44** (Supplement) **1**, 344-350.
- (179) 1969 (With V. Gupta, V.) Peroxidase activity in hooded and awned barley at successive stages of development. *Biochem. Genet.* **3**, 15-24.
- (180) 1969 (With A.D. Wittingham) Chromosomal rearrangements in *Plantago insularis* Eastw. *Chromosoma* (Berlin) **26**, 449-468.
- (181) 1969 (With E. Yagil,). The morphogenetic effects of the hooded gene in barley. II. Cytological and environmental factors affecting gene expression. *Genetics* **62**, 307-19.
- (182) 1969 (With V. K. Gupta) The relation between peroxidase activity and the morphological expression of the hooded gene in barley. *Proc. Natn. Acad. Sci.* **64**, 50-56.
- (183) 1969 *The Basis of Progressive Evolution*. Chapel Hill: University of North Carolina Press.
- (184) 1970 Prospects for spaceship man. *Saturday Review*, pp. 48-66, March 7, 1970.
- (185) 1970 The natural history and evolutionary future of mankind. *Am. Nat.* **104**, 111-126.
- (186) 1970 Biosystematics: An avenue towards understanding evolution. *Taxon* **19**, 205-214.
- (187) 1970 Variation and evolution in plants: progress during the past twenty years. In *Essays in Evolution and Genetics in Honor of Theodosius Dobzhansky* (ed. M. K. Hecht & W. C. Steere), *Evolutionary Biology* (Suppl.) pp. 173-208. New York: Appleton-Century-Crofts.
- (188) 1970 Botanizing in California's nooks and crannies. *California Native Plant Society Newsletter*, October 1970.
- (189) 1970 Transference of function as a factor in the evolution of seeds and their accessory structures. *Israel J. Bot.* **19**, 59-70.
- (190) 1970 Adaptive radiation of reproductive characteristics in angiosperms, I. Pollination mechanisms. In *Ann. Rev. Ecol. Syst.* **1**, 307-326.
- (191) 1971 Relationships between adaptive radiation, speciation and major evolutionary trends. *Taxon* **20**, 3-16.
- (192) 1971 Review of "*Genetic Resources in Plants*" (ed. O. H. Frankel, E. Bennett, R. D. Brock, A. H. Bunting, J. R. Harlan, & E. Schreiner) *Science* **172**, 1018-1019.
- (193) 1971 (With S.M. Murr) An albino mutant in *Plantago insularis* requiring thiamine pyrophosphatase. I. *Genetics* **6**,: 231-243.
- (194) 1971 (With H. J. Price) The developmental genetics of the *Calcaroides* gene in barley. I. Divergent expression at the morphological and histological level. *Genetics* **68**, 527-538.
- (195) 1971 (With H.J. Price) The developmental genetics of the *Calcaroides* gene in barley. II. Peroxidase activity in mutant and normal plants at progressive stages of development. *Genetics* **68**, 539-46.
- (196) 1971 Adaptive radiation of reproductive characteristics in angiosperms, II. Seeds and seedlings. *Ann. Rev. Ecol. Syst.* **2**, 237-260.
- (197) 1971 (With A.T. Smith) A morphological and histological study of the tomato 'curl'. *Am. J. Bot.* **58**, 517-524.
- (198) 1971 (With R. C. Lewontin) Comparative evolution at the levels of molecules, organisms, and populations. In Darwinian, Neo-Darwinian, and Non-Darwinian Evolution. Proceedings of the Sixth. Berkeley Symposium on Mathematical Statistics and Probability **5**, 23-42.
- (199) 1971 *Chromosomal Evolution in Higher Plants*. Reading, MA: Addison-Wesley Publishing Company.
- (200) 1972 The evolution of the grass family. In *The Biology and Utilization of Grasses* (ed. V. B. Youngner & C. M. McKell), pp. 1-17. New York: Academic Press.
- (201) 1972 Ecological distribution of centers of major adaptive radiation in angiosperms. In *Taxonomy, Phytogeography, and Evolution* (ed. D. H. Valentine), pp. 7-34. New York: Academic Press.
- (202) 1972 Research on the evolution of higher plants: problems and prospects. *Canad. J. Genet. Cytol.* **14**, 453-462.

- (203) 1972 (With E. Zeiger) Developmental genetics in barley: A mutant for stomatal development. *Am. J. Bot.* **59**, 143-148.
- (204) 1972 Edgar Anderson: recollections of a long friendship. *Ann. Miss. Bot. Gdn.* **59**, 373-379.
- (205) 1972 The evolutionary significance of biological templates. In *Biology, History, and Natural Philosophy* (ed. A. D. Breck & W. Yourgrau), pp. 79-102. New York: Plenum Press.
- (206) 1973 The evolution of design. *American Biology Teacher* **35**, 57-61.
- (207) 1973 Morphogenesis, vascularization and phylogeny in angiosperms. *Breviora, Museum of Comparative Zoology* no. **418**, pp. 1-19.
- (208) 1973 Adaptive radiation and the origin of form in the earliest multinuclear organisms. *Syst. Zool.* **22**, 478-485.
- (209) 1974 Evolution of morphogenetic patterns. In *Basic Mechanisms in Plant Morphogenesis (Brookhaven Symposia in Biology 25)* (ed. P.S. Carlson). pp. 227-244. New York: Brookhaven National Laboratory.
- (210) 1974 Building bridges between evolutionary disciplines. *Taxon* **23**, 11-20.
- (211) 1974 Adaptive shifts and evolutionary novelty: A compositionist approach. In *Studies in the Philosophy of Biology: Reduction and Related Problems* (ed. F. J. Ayala & Th. Dobzhansky), pp. 285-306. Berkeley: University of California Press.
- (212) 1974 The role of polyploid complexes in the evolution of North American grasslands. *Taxon* **24**, 91-106.
- (213) 1974 A California botanist in Chile. *Fremontia* **2**, 8-13.
- (214) 1974 (With L.R.Heckard) A new *Lewisia* (Portulacaceae) from the Sierra Nevada of California. *Brittonia* **26**, 305-308.
- (215) 1974 Flowering Plants. Evolution Above the Species Level. Cambridge: Belknap Press.
- (216) 1975 Deductions about transspecific evolution through extrapolation from processes at the population and species level. *Ann. Miss. Bot. Gdn.* **62**, 825-834.
- (217) 1975 Shrubs as centers of adaptive radiation and evolution. *Proceedings of the Workshop on Wildland Plants*, pp. 120-140.
- (218) 1975 (With L.D. Frias, R. Godoy, P. Iturra, S. Koref-Santibañez, J. Navarro & N. Pacheco) Polymorphism and geographic variation of flower color in Chilean populations of *Eschscholzia californica*. *Plant Syst. Evol.* **123**, 185-198.
- (219) 1976 L'ecologie comparative de quelques espèces de légumineuses de la flore Méditerranéenne. *Colloques Internationaux du Centre National de la Recherche Scientifique* **235**, 361-368.
- (220) 1976 Seeds, seedlings, and the origin of angiosperms. In *Origin and Early Evolution of Angiosperms* (ed. C. B. Beck.), pp. 300-311. New York: Columbia University Press.
- (221) 1976 Seed and seedling ecology in annual legumes. I. A comparison of seed size and seedling development in some annual species. *Oecol. Plant.* **11**, 321-331.
- (222) 1976 Seed and seedling ecology in annual legumes. II. Stem growth, seed production and mechanisms for transport. *Oecol. Plant.* **11**, 333-344.
- (223) 1976 Ecological islands and vernal pools of California. In *Vernal Pools: Their Ecology and Conservation* (ed. S. K. Jain). *Proc. Inst. Ecol.*, pp. 1-4. University of California at Davis.
- (224) 1976 Chromosome, DNA and plant evolution. *Evol. Biol.* **9**, 1-34.
- (225) 1976 (With R. D. Hoogland). Species diversity, ecology and evolution in a primitive angiosperm genus, *Hibbertia* (Dilleniaceae). *Plant Syst. Evol.* **125**, 139-154.
- (226) 1977 In defense of evolution: tautology or theory? *Am. Nat.* **111**, 386-390.
- (227) 1977 (With Th. Dobzhansky, F. J. Ayala & J.W. Valentine). *Evolution*. San Francisco: W. H. Freeman and Co.
- (228) 1978 (With W.C. Dickison, & P. M. Rury) Xylem anatomy of *Hibbertia* (Dilleniaceae) in relation to ecology and evolution. *J. Arnold Arb.* **59**, 32-49.
- (229) 1978 Edgar Anderson 1897-1969. *Biogr. Mem. Natn. Acad. Sci.* **49**, 3-23.
- (230) 1978 Why are there so many rare plants in California? *Fremontia* **5**, 6-10; 17- 20.
- (231) 1978 (With D.W. Taylor) A new species of *Eupatorium* (Asteraceae) from California. *Madroño* **25**, 218-220.
- (232) 1979 Fifty years of plant evolution. In *Topics in Plant Population Biology* (ed. O. T. Solbrig, S. Jain, G. B. Johnson & P. H. Raven), pp. 18-41. Columbia: Columbia University Press.
- (233) 1979 Strategies for preservation of rare plants and animals. *Great Basin Naturalist Memoirs* **3**, 87-93.
- (234) 1979 Rare species as examples of plant evolution. *Great Basin Naturalist Memoirs* **3**, 113-117.
- (235) 1980 Rarity of plant species: a synthetic viewpoint. *Rhodora* **82**, 77-86.
- (236) 1980 Recientes avances en genetica evolutiva. *Actas IV Congr. Latinoamerica Genetica* **2**, 14-27.
- (237) 1980 Recientes avances en genetica evolutiva. *Anales de L'Academia Nacional de Ciencias Exactas, Fisicas y Naturales, Buenos Aires* **32**, 13-26.
- (238) 1980 Polyploidy in plants: unsolved problems and prospects. In *Polyploidy, Biological Relevance* (ed. W. Lewis), pp. 495-518. Plenum Press: New York.
- (239) 1980 DNA, chromosomes, and evolution. *Actas IV Congress Latinoamerica Genetica* **2**, 3255-338.

- (240) 1980 Botany and the synthetic theory of evolution. In *The Evolutionary Synthesis: Perspectives on the Unification of Biology* (ed. E. Mayr & W. B. Provine) pp. 139-152. Cambridge: Harvard University Press.
- (241) 1980 (With G. J. Hill) Did multicellular plants invade the land? *Am. Nat.* **115**, 342-353.
- (242) 1981 Why are there so many species of flowering plants? *BioScience*, **31**, 573-577.
- (243) 1981 Coevolution of grasses and herbivores. *Ann. Miss. Bot. Gdn.* **68**, 75-86.
- (244) 1981 Chromosomes and evolution in the genus *Bromus* (Gramineae). *Botanische Jahrbucher fur Systematik* **102**, 359-379.
- (245) 1981 How it all was: receiving the National Medal of Science. Unpublished Manuscript.
- (246) 1981 (With F. J. Ayala) Is a new evolutionary synthesis necessary? *Science* **213**, 967-971
- (247) 1981 (With R.J. Bayer) Chromosome numbers of North American species of *Antennaria gaertner* (Asteraceae: Inuleae). *Am. J. Bot.* **68**, 1342-1349.
- (248) 1982 Major trends of evolution in the Poaceae and their possible significance. In *Grasses and Grasslands: Systematics and Ecology* (ed. J. R. Estes, R. J. Tylr, & J. N. Brunken), pp. 1-26. Norman: University of Oklahoma Press.
- (249) 1982 Modal themes: a new framework for evolutionary syntheses. In *Perspectives on Evolution* (ed. R. Milkman) pp. 1-14. Sunderland: Sinauer.
- (250) 1982 (With R.J. Bayer) A revised classification of *Antennaria* (Asteraceae: Inuleae) of the Eastern United States. *Syst. Bot.* **7**, 300-313.
- (251) 1982 Plant speciation. In *Mechanisms of Speciation* (ed. Claudio Barigozzi), pp. 21-39. New York: Alan R. Liss.
- (252) 1982 Floristic affinities of the high Sierra Nevada. *Madroño* **29**, 189-199.
- (253) 1982 Perspectives in evolutionary theory. *Evolution* **36**, 1109-1118.
- (254) 1982 Darwin to DNA, Molecules to Humanity. A Panorama of Evolution. New York: Freeman and Co.
- (255) 1983 Mosaic evolution: an integrating principle for the modern synthesis. *Experientia* **39**, 823-834.
- (256) 1983 Postulates of the Stebbins-Hill theory of the origin of land plants. *Plant Sci. Bull.* **29**, **1**.
- (257) 1983 (With R.J. Bayer) Distribution of sexual and apomictic populations of *Antennaria parlinii*. *Evolution* **37**, 555-561.
- (258) 1984 Serpentine floras: the northern Sierra Nevada. *Fremontia*, **12**, 26-28.
- (259) 1984 The flowering of sex. *The Sciences*, **May/June**, pp. 26-28.
- (260) 1984 Chromosome pairing, hybrid sterility, and polyploidy: a reply to R. C. Jackson. *Syst. Bot.* **9**, 119-121.
- (261) 1984 Mosaic evolution, mosaic selection and angiosperm phylogeny. *Bot. J. Linn. Soc.* **88**, 149-164.
- (262) 1984 Evolution and religion. In *Cry of the Environment* (ed. P. N. Joranson & K. Butigan), pp. 181-197. Santa Fe: Bear and Company.
- (263) 1984 (With G.F. Anderson) Dioecy versus gametophytic self-incompatibility: a test. *Am. Nat.* **124**, 423-428.
- (264) 1984 Polyploidy and the distribution of the arctic-alpine flora: new evidence and a new approach. *Botanica Helvetica* **94**, 1-13.
- (265) 1984 Review of "Kew Chromosome Conference II", (ed. P. E. Brandham & M. D. Dennet). *Genetics* **63**, 79.
- (266) 1985 Polyploidy, hybridization, and the invasion of new habitats. *Ann. Miss. Bot. Gdn.* **72**, 824-832.
- (267) 1985 (With F. J. Ayala) The evolution of Darwinism. *Sci. Am.* **253**, 72-82.
- (268) 1985 Rare plants in California's national forests: Their scientific value and conservation. *Fremontia* **13**, 9-12
- (269) 1986 Gene action and morphogenesis in plants. In *Genetics, Development, and Evolution* (ed. J. P. Gustafson, G. L. Stebbins & F. J. Ayala), pp. 29-46. New York: Plenum Press.
- (270) 1986 (With D. V. Basile) Phyletic phenocopies: a useful technique for probing the genetic and developmental basis of evolutionary change. *Evolution* **40**, 422-425.
- (271) 1987 Species concepts: semantics and actual situations. *Biology and Philosophy* **2**, 198-203.
- (272) 1987 Is Darwinism dead? The facts say no! *Evol. Trends in Plants* **2**, 69-72.
- (273) 1987 (With J. C. Dawe) Polyploidy and distribution in the European flora: A reappraisal. *Bot. Jahrb. Systematik* **108**, 343-354.
- (274) 1987 (With R.J. Bayer) Chromosome numbers, patterns of distribution, and apomixis in *Antennaria* (Asteraceae: Inuleae). *Syst. Bot.* **12**, 305-319.
- (275) 1987 (With J.H. Hunziker) Chromosomal evolution in the Gramineae. In *Grass Systematics and Evolution*, (ed. T. R. Soderstrom, K. W. Hilu, C. S. Campbell & M. E. Barkworth), pp. 179-187. Smithsonian Institution of Washington.
- (276) 1987 Grass systematics and evolution: past, present, and future. In *Grass Systematics and Evolution* T. R. Soderstrom, (ed. K. W. Hilu, C. S. Campbell & M. E. Barkworth), pp. 359-367.. Smithsonian Institution of Washington.
- (277) 1988 Essays in comparative evolution. The need for evolutionary comparisons. In *Plant Evolutionary Biology*, (ed. L. D. Gottlieb & S. K. Jain), pp. 3-20. Chapman and Hall, New York.
- (278) 1988 (With D. L. Hartl) Comparative evolution: latent potentials for anagenic advance. *Proc. Natn. Acad. Sci. USA* **85**, 5141-5145.

- (279) 1989 Plant speciation and the founder principle. In *Genetics, Speciation, and the Founder Principle* (ed. L. V. Giddings, K. Y. Kaneshiro & W. W. Anderson), pp. 113-124. New York: Oxford University Press.
- (280) 1992 Why should we conserve species and wildlands? In *Conservation Biology* (ed. P. L. Fiedler & S. K. Jain), pp. 454-470. Chapman and Hall, New York.
- (281) 1992 Comparative aspects of plant morphogenesis: a cellular, molecular and evolutionary approach. *Am. J. Bot.* **79**, 581-598.
- (282) 1992 (With N. Huang & R. L. Rodriguez). Classification and evolution of α -amylase genes in plants. *Proc. Natn. Acad. Sci. USA* **89**, 7526-7530.
- (283) 1992 (With K.A. Schierenbeck & R. W. Patterson) Morphological and cytological evidence for polyphyletic allopolyploidy in *Arctostaphylos mewukka* (*Ericaceae*). *Plant Syst. Evol.* **179**, 187-205.
- (284) 1993 Cooperation in conservation of California's rare habitats and species. In *Interface Between Ecology and Land Development in California* (ed. J. E. Keeley), pp. 11-15. Los Angeles, Southern California Academy of Sciences.
- (285) 1994 Biological revolutions of thought during the twentieth century. In *Historical Perspectives in Plant Science* (ed. K. Frey), pp. 3-21. Ames: Iowa State University Press.
- (286) 1995 Gote Turesson: A Pioneer of Plant Experimental Taxonomy. In *Genecology and Ecogeographic Races* (ed. A. R. Kruckeberg, R. B. Walker, & A. E. Leviton), pp. 31-34. Pacific Division. American Association for the Advancement of Science.
- (287) 1995 Recollections of a coauthor and close friend. In *Genetics of Natural Populations. The Continuing Importance of Theodosius Dobzhansky*, (ed. L. Levine) pp. 7-13. New York: Columbia University Press.
- (289) 1997 (With M. Skinner) Why is California's flora so rich? In *California's Wild Gardens* (ed. P. M. Faber), pp. 1-10. Sacramento: California Native Plant Society.
- (290) 1998 Evolution of seed hulls and chromosomes of Stipoid grasses. *Grasslands* **8** (3): 1-5.
- (291) 1998 (With C. C. Dremann). Jepson Manual chromosome numbers may indicate new "cryptic" native grass species. *Grasslands* **8** (3): 4-5.
- (292) 1998 (With C. C. Dremann) *Elymus glaucus*: a collection of polyploid cryptic species. *Grasslands* **8** (4): 3-11.
- (293) 1999 A brief summary of my ideas on evolution. *Am. J. Bot.* **86**, 1207.
- (294) 1999 The genus *Bromus* in California. *Grasslands* **9** (1): 1-9.
- (295) 1999 The genus *Melica* in California. *Grasslands* **9** (2): 3-5.
- (296) 2000 (With C. C. Dremann) One hundred and forty of California's native grasses. *Grasslands* **10**(1): 3-6.