

## V. RECENT MAIZE PUBLICATIONS

- Ahmad, M. The effects of organo-phosphorous insecticides on the meristematic tissue of the corn plant. Diss. Abstr. 27:3355. 1967. (Abstr.)
- Alexander, D. E. and R. J. Lambert. Relationship of kernel oil content to yield in maize. Crop Sci. 8:273-275. 1968.
- Amano, E. Comparison of ethyl methanesulfonate- and radiation-induced waxy mutants in maize. Mutation Res. 5:41-46. 1968.
- Andrew, R. H. Ear to row selection for early maturity in sweet corn. Crop Sci. 9:51-55. 1969.
- Angeles A., H. H. Ontogenetic study of the vegetative shoot apex of corn grass, a mutant in maize. Diss. Abstr. 27:2591. 1967. (Abstr.)
- Balint, A. Heterosis and chromosome alterations. Magyar Tud. Akad. Agrartud. Oszt. Kozl 26:445-449. 1967.
- Bianchi, A. Quantitative relationship between genetic effects and x-ray doses in maize. Symp. Genet. Biol. Ital. 13:491-498. 1966.
- Bianchi, A. A fine analysis of crossing over in maize. Genetica Agraria 22:136-149. 1968.
- Bianchi, A. and F. Salamini. Heredity and genetic improvement in maize. Sementi Elette 13:256-313. 1967.
- Bingham, E. T., C. R. Burnham, and C. E. Gates. Double and single backcross linkage estimates in autotetraploid maize. Genetics 59: 399-410. 1968.
- Bogyo, T. P. Inheritance of resistance to Helminthosporium turcicum in maize. 1951-1965. Agric. Res. Pretoria 1966:103-104. 1966. (Abstr.)
- Briggs, R. W. Effects of post-treatment hydration and dehydration of ethyl methanesulfonate-treated maize seeds. In Mutations in Plant Breeding II, pp. 47-55, Intern. Atomic Energy Agency, Vienna. 1968.
- Brown, A. H. D. and R. W. Allard. Inheritance of isozyme differences among the inbred parents of a reciprocal recurrent selection population of maize. Crop Sci. 9:72-75. 1969.
- Brown, W. L. Results of non-selective inbreeding in maize. Der Zuchter 37:155-159. 1967.

- Burnham, C. R. A new method of using interchanges as chromosome markers. *Crop Sci.* 8:357-361. 1968.
- Casas, E., W. D. Hanson, and E. J. Wellhausen. Genetic relationships among collections representing three Mexican race composites of Zea mays L. *Genetics* 59:299-310. 1968.
- Castro G., M., C. O. Gardner, and J. H. Lonnquist. Cumulative gene effects and the nature of heterosis in maize crosses involving genetically diverse races. *Crop Sci.* 8:97-101. 1968.
- Chao, S. E. and J. G. Scandalios. Genetic and developmental studies of amylase isozymes in maize. *Genetics* 60:168-169. 1968. (Abstr.)
- Chase, S. S. Complementary pollen fertility restoration in maize. *J. Hered.* 59:240-242. 1968.
- Chase, S. S. and D. K. Nanda. Number of leaves and maturity classification in Zea mays L. *Crop Sci.* 7:431-432. 1967.
- Ckanikov, D. I. et al. On the possibility of inducing male sterility in maize by means of certain chemical compounds. *Agrohimiya* 1964 (7):123-129. 1964.
- Coe, E. H., Jr. Heritable repression due to paramutation in maize. *Science* 162:925. 1968.
- Creech, R. G. Carbohydrate synthesis in maize. *Adv. Agron.* 8:275-322. 1968.
- Creech, R. G., R. J. Snyder, E. V. Wann and W. H. Lachman. Genotypic-environmental interactions for sweet corn hybrids produced by the conventional and cytoplasmic-genetic male sterile methods. *Crop Sci.* 8:380-383. 1968.
- Crum, C. W. Epistatic effects and inbreeding depression of three performance levels in two populations of Zea mays L. *Diss. Abstr.* 27:2988. 1967. (Abstr.)
- Curtis, P. E., E. R. Leng, and R. H. Hageman. Development changes in oil and fatty acid content of maize strains varying in oil content. *Crop Sci.* 8:689-693. 1968.
- Da Silva, W. J. and J. H. Lonnquist. Genetic variances in populations developed from full-sib and  $S_1$  testcross progeny selection in an open-pollinated variety of maize. *Crop Sci.* 8:201-204. 1968.
- Diaconu, P. Cytological studies of cytoplasmic male sterility in maize. *An. Inst. Cerc. Cereal Pl. Teh. Fundulea* 33:227-238. 1967.
- Duclos, L. A. and P. L. Crane. Comparative performance of top crosses and  $S_1$  progeny for improving populations of corn (Zea mays L.). *Crop Sci.* 8:191-194. 1968.

- Duclos, Z. M., F. L. Patterson and H. H. Kramer. Performance of inbred lines in hybrid combination during transfer of a single gene (ae) locus in maize (Zea mays L.). *Crop Sci.* 7:433-437. 1967.
- Eberhart, S. A. and A. R. Hallauer. Genetic effects for yield in single, three-way, and double-cross maize hybrids. *Crop Sci.* 8:377-379. 1968.
- Efron, Y. and H. L. Everett. Evaluation of exotic germ plasm for improving corn hybrids in Northern United States. *Crop Sci.* 9:44-47. 1969.
- Efron, Y. and D. Schwartz. In vivo inactivation of maize alcohol dehydrogenase by a two-factor system. *P. N. A. S.* 61:586-591. 1968.
- El-Eryani, A. A. and A. A. Fleming. Differences in free amino acids between stocks of the same long-time inbred line of maize (Zea mays L.). *Crop Sci.* 8:529-532. 1968.
- Faludi-Daniel, A., L. Fridvalszky and I. Gyurjan. Pigment composition and plastid structure in leaves of carotenoid mutants of maize. *Planta* 78:184-195. 1968.
- Ficsor, G. and W. C. Beckman. Mutagenic inactivation of EMS in water and in germinating maize kernels. *Genetics* 60:176-177. 1968. (Abstr.)
- Fleming, A. A. and E. H. Wood. Effects of soil moisture and plant population on corn hybrids at a high fertility level. *Abst. Amer. Soc. Agron.* 1967. (Abstr.)
- Focke, R. Physiological and genetic studies of dry-matter production in maize leaves in relation to transport and yield. *Der Zuchter* 37:371-376. 1967.
- Freeman, J. E., N. W. Kramer, and S. A. Watson. Gelatinization of starches from corn (Zea mays L.) and sorghum (Sorghum bicolor L. Moench): Effects of genetic and environmental factors. *Crop Sci.* 8:409-413. 1968.
- Freeman, J. E., K. R. Yahl and S. A. Watson. A chemical and structural analysis of the caryopsis of an autotetraploid corn (Zea mays L.). *Crop Sci.* 7:655-658. 1967.
- Fuchs, A. Relationships between organogenesis and yield structure in Zea mays. *Z. für Pflanzenzuchtung* 60:260-283. 1968.
- Galinat, W. C. and R. G. Campbell. The diffusion of eight-rowed maize from the Southwest to the Central Plains. *Mass. Agric. Exper. Sta. Monograph No. 1.* 16 pp. 1967.

- Galinat, W. C. and S. S. Chase. Review of Manifestation of teosinte and "Tripsacum" introgression in Corn Belt maize, by G. S. Johnston. 73 pp. The Bussey Institution of Harvard Univ. Econ. Botany 22: 305-306. 1968.
- Gee, M. S., O. E. Nelson, and J. Kuc'. Abnormal lignins produced by the brown-midrib mutants of maize II. Comparative studies on normal and brown-midrib-1 dimethylformamide lignins. Arch. Biochem. Biophys. 123:403-408. 1968.
- Genter, C. F. Inbreeding without inbreeding depression. Proc. Ann. Hybrid Corn Industry Res. Conf. 22:82-90. 1968.
- Ghidoni, A. Transmission and phenotypic effect of a duplicate chromosome segment in maize. Molec. Gen. Genetics 101:317-332. 1968.
- Goodman, M. M. The races of maize: I. The use of Mahalanobis' generalized distances to measure morphological similarity. Fitotecnia Latinoamericana 4:1-22. 1967.
- Goodman, M. M. A measure of "overall variability" in populations. Biometrics 24:189-192. 1968.
- Goodman, M. M. The races of maize: II. Use of multivariate analysis of variance to measure morphological similarity. Crop Sci. 8:693-698. 1968.
- Goodsell, S. F. Potassium in mature kernels of normal and opaque-2 maize. Crop Sci. 8:281-283. 1968.
- Greenblatt, I. M. The mechanism of modulator transposition in maize. Genetics 58:585-597. 1968.
- Grogan, C. O. and C. W. Blessin. Characterization of major carotenoids in yellow maize lines of differing pigment concentration. Crop Sci. 8:730-732. 1968.
- Grogan, C. O. and E. E. Rosenkranz. Genetics of host reaction to corn stunt virus. Crop Sci. 8:251-254. 1968.
- Gross, J. A. Development, physiology and biochemistry of corn and wheat pollen. Botanical Review 34(3):333-358. 1968.
- Hageman, R. H., E. R. Leng, and J. W. Dudley. A biochemical approach to corn breeding. Advanc. Agron. 19:45-86. 1967.
- Hallauer, A. R. Performance of single cross hybrids developed from two-ear varieties. Proc. Ann. Hybrid Corn Industry Res. Conf. 22:74-81. 1968.
- Hallauer, A. R. and J. H. Sears. Second phase in the evaluation of synthetic varieties of maize for yield. Crop Sci. 8:448-451. 1968.

- Hallauer, A. R. and J. H. Sears. Mass selection for yield in two varieties of maize. *Crop Sci.* 9:47-51. 1969.
- Harris, J. W. Isozymes of the E<sub>4</sub> esterase in maize. *Genetics* 60:186-187. 1968. (Abstr.)
- Helm, J. L., V. L. Ferguson, and M. S. Zuber. Effect of planting date on high-amylose corn (Zea mays L.). *Agron. Jour.* 60:530-531. 1968.
- Higgs, R. L. and W. A. Russell. Genetic variation in quantitative characters in maize inbreds. I. Variation among and within Corn Belt seed sources of six inbreds. *Crop Sci.* 8:345-348. 1968.
- Higgs, R. L. and W. A. Russell. Genetic variation in quantitative characters in maize inbreds. II. Effects on performance in single-cross and double-cross hybrids. *Crop Sci.* 8:349-351. 1968.
- Hooker, A. L. Diseases and yield barriers. *Proc. Ann. Hybrid Corn Industry Res. Conf.* 22:30-36. 1967.
- Hooker, A. L. Inheritance of resistance in maize to rust caused by Puccinia sorghi. First Intl. Cong. Plant Path., London. Abstracts of papers, p. 91. 1968.
- Horner, E. S. Effect of a generation of inbreeding on genetic variation in corn (Zea mays L.) as related to recurrent selection procedures. *Crop Sci.* 8:32-35. 1968.
- Hunter, R. B. and E. E. Gamble. Effect of cytoplasmic source on the performance of double-cross hybrids in maize, Zea mays L. *Crop Sci.* 8:278-281. 1968.
- Ikenberry, R. W. and D. C. Foley. Cellulase activity in corn stalks infected with Fusarium moniliforme Sheld. and its relation to stalk rot. *Iowa St. J. Sci.* 42:47-61. 1967.
- Ivanov, V. B. Growth of root cells of maize seedlings after irradiation with high doses of x-rays. I. Inhibition of cell division, duration and rate of root growth after irradiation. *Citologia* 9:958-966. 1967.
- Jinahyon, S. Evaluation of recurrent selection for stalk-rot resistance in maize and the associated changes in other agronomic characters. *Diss. Abstr.* 27:3758. 1967. (Abstr.)
- Kendelic, V. Mutational changes induced by ionizing radiation in inbred lines of maize with a view to producing new genotypes having useful properties. *Bull. Sci. Cons. Acad. Yougosl.* 12:292. 1967. (Abstr.)

- Kuc', J., O. E. Nelson, and P. Flanagan. Degradation of abnormal lignins in the brown-midrib mutants and double mutants of maize. *Phytochem.* 7:1435-1436. 1968.
- La Fontaine, G. S. and V. Ulrich. A biochemical basis for heterosis in the RNA synthesizing mechanism of maize. *Genetics* 60:194. 1968. (Abstr.)
- Laible, C. A. and V. A. Dirks. Genetic variance and selective value of ear number in corn (Zea mays L.). *Crop Sci.* 8:540-543. 1968.
- Lambert, R. J., V. Reich, and L. Silvela Sangro. Quantitative and qualitative changes in oil content of the grain of Z. mays (L.) during ripening and germination. *Bol. Inst. Invest. Agron. Madr.* 27:63-70. 1967.
- Larson, R. L. and E. H. Coe, Jr. Enzymatic action of the Bz<sub>1</sub> anthocyanin factor in maize. *Proc. XII Int. Cong. Genetics* 1:131. 1968. (Abstr.)
- Lim, S. M., J. D. Paxton, and A. L. Hooker. Phytoalexin production in corn resistant to Helminthosporium turcicum. *Phytopath.* 58:720-721. 1968.
- Lonnquist, J. H. Further evidence on testcross versus line performance in maize. *Crop Sci.* 8:50-53. 1968.
- Lonnquist, J. H. and N. E. Williams. Development of maize hybrids through selection among full-sib families. *Crop Sci.* 7:369-370. 1967.
- Maguire, M. P. Effect of heat treatment on crossover frequency in maize. *J. Cell. Biol.* 39:171a-172a. 1968. (Abstr.)
- Maguire, M. P. Nomarski interference contrast resolution of subchromatid structure. *Proc. Nat. Acad. Sci.* 60:533-536. 1968.
- Maguire, M. P. The effect of synaptic partner change on crossover frequency in adjacent regions of a trivalent. *Genetics* 59:381-390. 1968.
- Maguire, M. P. Chromosome pairing in altered constitutions and models of synapsis and crossing over. *Genet. Res.* 12:21-27. 1968.
- Maguire, M. P. Apparent increase in recombination frequency in regions adjacent to segmental crossover inhibition. *Genetics* 60:200-201. 1968. (Abstr.)
- Maguire, M. P. Evidence on the stage of heat induced crossover effect in maize. *Genetics* 60:353-362. 1968.

- Maleckij, S. I., V. I. Semenov, and V. K. Sumnyj. The use of gametophytic gene  $Ga^S$  for the production of an incompatibility barrier between diploid and tetraploid maize. *Genetika, Moskva* 4:98-103. 1968.
- Mangelsdorf, P. C., H. W. Dick and J. Camara-Hernandez. Bat cave revisited. *Bot. Mus. Leafl. Harv.* 22:1-31. 1967.
- Maršálek, L. and V. Voříšek. Analysis of some physiologically active substances in maize inbreds and single crosses in relation to the heterosis effect. *Z. für Pflanzenzuchtung* 59:259-272. 1968.
- Marziani, G. and M. Orsenigo. Observations on the fine structure of the plastids in a "lycopinic" mutant of maize. A preliminary report. *Atti V Cong. Ital. Microscop. Elettron.* 11:158-159. 1965.
- Matsumura, S. and T. Mabuchi. Photoreactivation of an ultraviolet light induced mutation in maize pollen. *Rep. Kihara Inst. Biol. Res.* 1966 (18):1-5. 1966.
- McClintock, B. Genetic systems regulating gene expression during development. *Developmental Biology Suppl.* 1:84-112. 1967.
- McDaniel, R. G. and I. V. Sarkissian. Mitochondrial heterosis in maize. *Genetics* 59:465-475. 1968.
- Mescerjakova, P. I. Differences in resistance to smut in reciprocal crosses of maize. *Sci. Not. Har'kov Univ.* 141:146-149. 1963.
- Nelson, O. E. The waxy locus in maize. II. The location of the controlling element alleles. *Genetics* 60:507-524. 1968.
- Nelson, O. E. A mutant gene affecting protein synthesis in the maize endosperm. *Genetica Agraria* 21:209-230. 1967.
- Neuffer, M. G. and E. H. Coe, Jr. Linkage map and annotated list of genetic markers in maize (*Zea mays* L.). In Handbook of Biochemistry, H. Sober, ed. Chemical Rubber Co., Cleveland, Ohio. 1968.
- Neuffer, M. G., L. Jones, and M. S. Zuber. The Mutants of Maize. Crop Science Soc. of Amer., Madison, Wis. 1968.
- Nickerson, N. H. Dooryard agriculture of Choco Indians in Eastern Panama. *Agricultural Ecology, Part 10, Vol. III- Trip Reports*, J. F. Gamble, S. C. Snedaker and Associates, University of Florida, Gainesville, pp. 66-74. 1968.
- Noble, S. W. Sampling of heterogeneous testers and the comparison of a double cross with parental and non-parental single crosses as testers for the evaluation of corn lines. *Diss. Abstr.* 27:3740-3741. 1967. (Abstr.)

- Orel, L. I. A cytological study of maize pollen with cytoplasmic male sterility. *Genetika Moskva* 1967 (12):3-11. 1967.
- Paez, A. V., J. L. Helm, and M. S. Zuber. Quantitative measurement of light transmission through corn endosperm. *Cereal Chem.* 45:595-599. 1968.
- Parodi, L. R. La agricultura aborigen argentina. Editorial Universitaria de Buenos Aires. 48 pp. 1966.
- Penny, L. H. Selection-induced differences among strains of a synthetic variety of maize. *Crop Sci.* 8:167-168. 1968.
- Peterson, P. A. The origin of an unstable locus in maize. *Genetics* 59:391-398. 1968.
- Peterson, P. A. Mutable genes in maize and Callan's chromosome model of serially repeated gene copies. *Nature* 221:480-482. 1968.
- Petrov, D. F., N. I. Belousova, and U. N. Yurchikov. Cytogenetic study of hybrids between tetraploid maize forms and Tripsacum. *Genetika, Moskva* 4:58-71. 1968.
- Phillips, R. L. Cytogenetic location of the gene for purple plant color in maize. *J. Heredity* 59:56. 1968.
- Reddy, G. M. Amino acid and protein content studies of some Indian maize varieties. 12th Int. Cong. Genet., Tokyo. 1968.
- Reddy, G. M. and B. V. Ramasastry. Amino acid composition of Indian maize varieties. *Indian Jour. Genet. and Pl. Breeding* 27(3):461-464. 1967.
- Robertson, D. S., M. D. Bachmann, and I. C. Anderson. The effect of modifier genes on the plastid fine structure of albino mutants in maize. *Genetics* 60:216. 1968. (Abstr.)
- Roos, E. E. and I. V. Sarkissian. Isocitric dehydrogenase and isocitric lyase in heterotic and nonheterotic maize (Zea mays L.). *Crop Sci.* 8:683-686. 1968.
- Russell, W. A. Testcrosses of one- and two-ear types of Corn Belt maize inbreds. I. Performance at four plant stand densities. *Crop Sci.* 8:244-247. 1968.
- Russell, W. A. and S. A. Eberhart. Testcrosses of one- and two-ear types of Corn Belt maize inbreds. II. Stability of performance in different environments. *Crop Sci.* 8:248-251. 1968.
- Russell, W. A. and A. R. Hallauer. Multiple-eared corn may give farmers more stable yields. *Iowa Farm Sci.* 23:3-7. 1968.



- Sahbazov, V. G. and L. V. Kotenko. The relation of heterosis to the bioelectric potentials of the cells. *News Acad. Sci. USSR Ser. Biol.* 1967 (6):891-894. 1967.
- Salamini, F. Mendelian variability in Italian maize varieties. *Maydica*, Bergamo 13:1-45. 1968.
- Sandstedt R. M., B. D. Hites and H. Schroeder. Genetic variations in maize: effects on the properties of the starches. *Cereal Sci. Today* 13:82-85. 1968.
- Santini, G. S. and V. Ulrich. Comparison of inbred and hybrid cytoplasmic RNA's on the basis of their nucleotide compositions. *Genetics* 60:220. 1968. (Abstr.)
- Sarkissian, I. V. and H. R. Srivastava. Mitochondrial polymorphism in maize. II. Further evidence of correlation of mitochondrial complementation and heterosis. *Genetics* 57:843-850. 1967.
- Saxena, K. M. S. and A. L. Hooker. On the structure of a gene for disease resistance in maize. *P. N. A. S.* 61:1300-1306. 1968.
- Scandalios, J. G. Genetic control of alcohol dehydrogenase isozymes in maize. *Biochem. Genet.* 1:1-8. 1967.
- Scandalios, J. G., E. H. Liu, and G. P. Longo. Genetic, developmental and subcellular localization studies of catalase enzymes. *Genetics* 60:221. 1968. (Abstr.)
- Sehgal, O. P., J. H. Jean, and M. S. Zuber. Sorghum hybrids as local hosts for maize dwarf mosaic virus. *Phytopath.* 58:1708-1709. 1968.
- Shlyk, A. A., L. I. Fradkin, G. E. Savchenko and A. Faludi-Daniel. Synthesis of plastid pigments in corn mutants of increased light sensitivity. *Photosynthetica*, Praha 1:241-248. 1967.
- Shortess, D. K. A genetic and physiological study of a lutescent chlorophyll-deficient mutant in maize (*Zea mays* L.). *Diss. Abstr.* 27:2994. 1967. (Abstr.)
- Shortess, D. K. A low temperature chlorophyll deficiency in maize inbred line Oh51A. *Genetics* 60:225. 1968. (Abstr.)
- Shortess, D. K., W. D. Bell and J. E. Wright. The lutescent mutant in maize: II. Nitrogen metabolism. *Genetics* 58:237-248. 1968.
- Shortess, D. K., J. E. Wright, and W. D. Bell. The lutescent mutant in maize: I. Inheritance patterns and environmental effects. *Genetics* 58:227-235. 1968.

- Siddiq, E. A. and M. S. Swaminathan. Superior radioresistance of polyploids--a tool for the preferential elimination of diploid cells in a colchicine-induced mixoploid tissue. *Curr. Sci.* 36: 307-308. 1967.
- Singh, A. and J. R. Laughnan. Mutation of the S cytoplasmic element for male sterility in maize. *Genetics* 60:226. 1968. (Abstr.)
- Singh, M. Cytoplasmic effects on agronomic characters in maize. *Indian J. Genet.* 26:386-390. 1966.
- Sinha, S. K. Chemical induction of asynapsis in maize. *Cytologia* 32: 317-319. 1967.
- Sinha, S. K. and A. P. Rao. An analysis of factors controlling chiasmata in maize. *Cytologia* 32:343-345. 1967.
- Snope, A. J. Cytogenetic studies with abnormal chromosome 10 in autotetraploid and haploid maize. *Diss. Abstr.* 27:3408-3409. 1967. (Abstr.)
- Snyder, R. J. The relationship of silk balling, husk length, husk tightness and blank tip to earworm and sap beetle resistance in maize. *Proc. Amer. Soc. Hort. Sci.* 91:454-461. 1967.
- Sprague, G. F. International outlook for hybrid corn. *Proc. Ann. Hybrid Corn Industry Res. Conf.* 22:65-70. 1968.
- Sprague, G. F. and J. H. McGahen. Influence of alien cytoplasm on yield of grain in Zea mays L. *Crop Sci.* 8:163-164. 1968.
- Sprague, G. F. and W. I. Thomas. Further evidence of epistasis in single and three-way cross yields of maize (Zea mays L.). *Crop Sci.* 7:355-356. 1967.
- Sreenath, P. R. and S. K. Sinha. An analysis of chromosomal behavior during meiosis in asynaptic maize. I. Distribution of bivalents. *Cytologia* 33:69-72. 1968.
- Stauber, S., M. S. Zuber, and W. L. Decker. Estimation of tasseling date of corn (Zea mays L.). *Agron. Jour.* 60:432-434. 1968.
- Storey, H. H. and A. K. Howland. Resistance in maize to a third East African race of Puccinia polysora Underw. *Ann. Appl. Biol.* 60: 297-303. 1967.
- Tantravahi, R. V. Cytology and crossability relationships of Tripsacum. 123 pp. The Bussey Institution of Harvard Univ. 1968.
- Ting, Y. C. Chromosome polymorphism of teosinte. *Genetics* 60:230-231. 1968. (Abstr.)

- Troyer, A. F. Yield as influenced by maturity and population. Proc. Ann. Hybrid Corn Industry Res. Conf. 22:91-98. 1968.
- Troyer, A. F. and A. R. Hallauer. Analysis of a diallel set of early flint varieties of maize. Crop Sci. 8:581-584. 1968.
- Tsai, C.-Y. and O. E. Nelson. Phosphorylases I and II of maize endosperm. Plant Physiol. 43:103-112. 1968.
- Tsangarakis, C. Z. and A. A. Fleming. Polyethylene versus glassine shoot bags in pollination of corn (Zea mays L.). Crop Sci. 8:126-128. 1968.
- Ullstrup, A. J. and M. P. Britton. An unusual epiphytotic of common corn smut in Indiana and Illinois. Plant Disease Reporter 52(12). 1968.
- Ullstrup, A. J. and A. F. Troyer. A lethal leaf spot of maize. Phytopath. 57:1282-1283. 1968.
- Ulrich, V. and R. S. Snell. The relative efficiency of ear-to-row and convergent improvement in increasing disease resistance of Zea mays. Proc. W. Va. Acad. Sci. 39:135-142. 1967.
- Van der Walt, W. J. Paramutation of R alleles of diverse geographic origin. Diss. Abstr. 28:796-797. 1967. (Abstr.)
- Van Dyke, C. G. and A. L. Hooker. The Z reaction in corn to Puccinia sorghi. Phytopath. 59:33-36. 1969.
- Vetturini, M. Cytological analysis of pure lines derived from Italian maize populations. Maydica, Bergamo 12:117-125. 1967.
- Walters, M. S. Ribonucleoprotein structures in meiotic prophase of Zea mays. Heredity 23:39-47. 1968.
- Webel, O. D. and J. H. Lonquist. An evaluation of modified ear-to-row selection in a population of corn (Zea mays L.). Crop Sci. 7:651-655. 1967.
- Weber, D. F. A test for nonhomologous recombination in Zea mays. Genetics 60:235. 1968. (Abstr.)
- Wilkinson, D. R. and A. L. Hooker. Genetics of reaction to Puccinia sorghi in ten corn inbred lines from Africa and Europe. Phytopath. 58:605-608. 1968.
- Williams, B. R. and R. G. Creech. The ultrastructure of genetically modified Zea mays L. endosperm cells. Genetics 60:237-238. 1968. (Abstr.)

Williams, T. V., R. S. Snell and C. E. Cress. Inheritance of drought tolerance in sweet corn. *Crop Sci.* 9:19-23. 1969.

Wright, J. A. Estimation of components of genetic variance in an open-pollinated variety of maize using single and three-way crosses among random inbred lines. *Diss. Abstr.* 27:3729. 1967. (Abstr.)