

Box List: Arthur L. Hooker Papers, 1926-1991
Plant Pathology, UIUC
ID: 8/13/29

Arrangement:

Series 1: Personal Papers, 1946-1991
Series 2: Research-related Papers, 1926-1991
Series 3: Publications, 1955-1984

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Series 1: Personal Papers, 1946-1991

This series contains Professor Hooker's CV, personal correspondence, course notes from his time at the University of Wisconsin, awards, and photographs. This series also includes documents relating to Hooker's military records. The series is organized alphabetically.

Box 1

1. American Association for the Advancement of Science fellow award, 1989
2. American Society of Agronomy Crops and Soils awards, 1973
3. Award banquet brochures and photograph, 1949-1971
4. Course notes and assignments, 1 of 2, 1948-1950
5. Course notes and assignments, 2 of 2, 1947-1948
6. Materials for Arthur Hooker's obituary, 1991
7. Military service records, 1946
8. Paul A. Funk Recognition award, 1973
9. Personal correspondence, 1979-1983
10. Photographs of Arthur Hooker, undated
11. Resumes, professional histories, and list of publications, 1987
12. Sigma Xi membership certificate, 1984
13. State of Illinois General Assembly commendation, 1971

Series 2: Research-related Papers, 1926-1991

This series contains materials related to Arthur Hooker's research on plant pathology, corn breeding, and plant genetics. It is arranged in two parts, each alphabetically therein. Part 1 (1926-1980) contains materials relating to Hooker's research while at the Universities of Wisconsin and Illinois. Materials include correspondence, research files, datebooks, field plot notebooks, conference papers, meeting notes, a newspaper clipping scrapbook, and data from field work in South Africa and the former Republic of Yugoslavia. Part 1 also contains John R. Snyder's files from DeKalb AgResearch. Part 2 (1980-1991) contains materials relating to Hooker's work for DeKalb-Pfizer Genetics, Hughes Hybrids Seed Company, and the Plant Molecular Biology Center at Northern Illinois University after he left the University of Illinois in 1980. Included are correspondence, datebooks, expense reports, research notes, and field plot notebooks. Of particular interest are several binders that contain Professor Hooker's notes on breeding plans, field plot management, and seed production. Also included are DeKalb-Pfizer Genetics' internal publications, reports, manuals, and guides, including seed testing and research and development reports, as well as statistical printouts on inbred line evaluation and disease rating profiles.

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Box 1

Part 1: University of Wisconsin and University of Illinois, 1926-1980

14. II_aH₂ Corn, ca. 1977
15. A-4 Inheritance of resistance to rust, ca. 1959-1962
16. A-5 Influence of rust on yield, 1964-1977
17. *Advanced Genetics*, handbook compiled by A.L. Hooker, probably for teaching, 1 of 2, ca. 1953
18. *Advanced Genetics*, handbook compiled by A.L. Hooker, probably for teaching, 2 of 2, ca. 1953
19. Agriculture research, 1965-1976
20. Agriculture, assorted newspaper clippings, 1971-1983
21. Assessment of Present Efforts and Suggestions for Future Research on Corn Disease, report by A.L. Hooker, 1972
22. Biological diseases, 1959-1967
23. Corn anthracnose, 1974
24. Corn anthracnose, 1980
25. Corn Breeders Meeting, 1 of 2, 1975
26. Corn Breeders Meeting, 2 of 2, 1975
27. Corn breeding, conference papers, ca. 1971-1972
28. "The Corn Leaf Blight Picture," presented at Corn Disease Conference, 1976
29. Corn leaf diseases and resistance, research notes, data, and related correspondence, 1977-1979
30. Corn—bacterial research file, 1928-1980
31. Corn—general research file, 1926-1983
32. Corn—northern leaf blight research file, 1974
33. Corn—rusts research file, 1969
34. Dairy Science/Biology 316 lecture notes, 1973
35. Datebook and calendar, 1974-1979
36. Datebooks and planners, 1976-1980
37. "The Design and Analysis of Biological Experiments," by W.C. Jacob and R.D. Seif, ca. 1960s
38. "Differential Reactions of Eighty-four Sources of Chlorotic Lesion Resistance in Corn to Three Biotypes of *Helminthosporium turcicum*," 1980
39. Estimating disease losses based on the amount of healthy leaf tissue during the plant reproductive period, data, 1979
40. Expression of resistance in Corn to *Helminthosporium maydis* Race O Imported by the Monogenic Recessive in Gene rhm, ca. 1959-1969
41. Fertility plots, maps and analyses, 1968-1974
42. Genetics of Plant Pathogen Interactions, 406 lecture outlines, ca. 1979
43. Genetics Society of America, 1966-1971
44. Guide to the Maize and Sorghum Demonstration Nurseries of Eucarpia-79 in the Maize Research Institute—Kneja, 1979
45. Haploids in higher plants symposiums, 1974
46. *Helminthosporium turcicum* data, news bulletins, and correspondence, 1974-1979
47. *Helminthosporium turcicum* genetic studies in field, 1962-1968
48. *Helminthosporium* leaf report data, undated
49. Histology of *Helminthosporium maydis* Race O on *Zea mays* with and without Monogenic Recessive Gene rhm, ca. 1959-1969

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Box 1

50. Hybrid designations, confidential, 1974
51. Illinois Breeders School, 1974

Box 2

1. Illinois Corn Breeders School booklet, 1974
2. Illinois Corn Breeders School booklet, 1975
3. Illinois nutrition seminar, 1974
4. Indeterminate gametophyte, 1969
5. Inheritance of Adult Plan Resistance to Common Corn Rust, correspondence and data, 1963
6. "Inheritance of Resistance in Maize to Ruse caused by *Puccinia sorghii*," presentation at First International Congress of Plant Pathology, 1968
7. Iowa State, Experiment 500, ca. 1974
8. Leaf blight fertility data, 1976
9. Kukuruz ZP Hibridi, 1982-1988
10. Maize breeding for disease resistance, prepared at Maize Research Institute Beograd-Zemun, including field plot notebook, 1979
11. Maize breeding workshop: Production, Drying, Storage, and Processing of Maize in Yugoslavia, 1976-1979
12. Maize disease handbook, undated
13. Miscellaneous agronomy notes, University of Wisconsin and University of Illinois, 1952-1958
14. Newspaper clipping scrapbook, 1971-1972
15. Notebook compiled for Plant Pathology 102: Methods in Plant Pathology, University of Wisconsin, 1949-1950
16. Notebook containing outlines for talks, research plans, and data, undated
17. Outline Grower Conference, photograph, 1976
18. Plant Introduction Stations, plot data, 1976
19. PRF Ind., data, undated
20. Research and meeting notes, ca. 1958-1965
21. Research and meeting notes, Party 10, Vol. II, ca. 1960s
22. Research and meeting notes, 1968
23. Research and meeting notes, ca. 1970s
24. Research and meeting notes, ca. 1970s
25. Research and meeting notes, ca. 1970s-1980s
26. Research and meeting notes, ca. 1975
27. Sabbatical leave reports, 1978-1979
28. "Selection and Breeding Methods," by Arnel R. Hallauer, ca. 1970s

John R. Snyder

29. Dekalb expense reports, 1973-1983
30. Experiments: radioactive seed, $^{14}\text{CO}_2$ and fertility tests, 1973-1974
31. Lysine analysis, 2NOR, 1974
32. Lysine: correspondence from Wayne Fowler, 1969-1974
33. Lysine: data lab standards, 1974
34. Lysine: literature, 1966-1973
35. Lysine index: interim report, 1974
36. Nodal proliferation mutant, undated
37. Nursery, 1974

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Box 2

38. Nursery, maps and correspondence, 1974-1976
39. Procedures, misc., 1970-1973
40. Program objectives, 1973-1974
41. Protein Plus laboratories, 1972-1974
42. South Africa, Department of Agricultural Technical Services notes and field plot notebook, 1977-1979
43. South Africa, embassy correspondence, 1976-1977

Box 3

1. South Africa maize seed research, seed lists, 1979
2. South Africa seminar data, 1979
3. Southern leaf blight, 1971
4. Stalk rot research, ca. 1960-1961
5. Summary of D.S. 74 Rust Solutions, data, 1976
6. Talks, reports, and drafts, 1 of 2, 1973-1974
7. Talks, reports, and drafts, 2 of 2, 1973-1976
8. Virus study field data, 1967
9. University of Illinois, College of Agriculture, includes photograph, 1974
10. University of Illinois termination letters, 1980
11. Workshop and conference papers, ca. 1970-1980
12. Zemun data, 1978-1979

Part 2: DeKalb/Pfizer and Northern Illinois University, 1980-1991

13. Art's Inbred Development Program, 1989
14. Binder: 1—General research notes, ca. 1980s
15. Binder: 2—Breeding and seed production research, 2B 1-8, ca. 1980s
16. Binder: 3—Breeding and seed production corn, CB 1-9, ca. 1980s
17. Binder: 4—Breeding and seed production research, CB 4-8, ca. 1980s
18. Binder: 6—Physiology research notes, ca. 1980s
19. Binder: Breeding plans, 1986-1987
20. Binder: Breeding plans, ca. 1988
21. Binder: Breeding plans and seed production notes, ca. 1980s
22. Binder: Field plot notes, BP line, possibly Hawaii, 1989-1990
23. Binder: Field plot notes, possibly Holden Seed or Hughes Hybrids, 1989-1990
24. Binder: Inbred lines, 1987-1989

Box 4

1. Binder: note code, notes, and to do, ca. 1980s
2. Breeding program, St. Louis and Hawaii, 1980-1981
3. B.P. 2, Field plot data and notes, ca. 1988
4. B.P. 3, Notes and calculations, 1984-1987
5. Conference schedules and booklets, 1979-1990
6. Corn growers lobbying efforts, miscellaneous correspondence and newsletters, 1990-1991
7. Corn seedling research, 1982-1986
8. Date books and planners, 1981-1985
9. Date books and planners, 1986-1990
10. DeKalb-Pfizer Genetics, FACT and R&D tests, 1983

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11. DeKalb-Pfizer Genetics, FACT and R&D test results, 1 of 2, 1983-1984
12. DeKalb-Pfizer Genetics, FACT and R&D test results, 2 of 2, 1983-1984
13. DeKalb-Pfizer Genetics, GCA/SCA Report, 1 of 2, 1983
14. DeKalb-Pfizer Genetics, GCA/SCA Report, 2 of 2, 1983
15. DeKalb-Pfizer Genetics, Head to group san comparisons, 1 of 2, 1983
16. DeKalb-Pfizer Genetics, Head to group san comparisons, 2 of 2, 1983
17. DeKalb-Pfizer Genetics, HEDMENU selection, 1985
18. DeKalb-Pfizer Genetics, Plant Molecular Biology Program postdoctoral position progress report, 1985
19. DeKalb-Pfizer Genetics, Rows and Summaries for Hawaii BPI, 1987
20. DFS tests, 1988-1989
21. Disease reactions and resistance evaluation, 1990
22. Elite inbred section in Kihei, memo and plot planning data, 1982
23. Executive summary of the 1983 Plant Breeding Research Forum, 1983
24. Experiments, colchicine, 1988-1990
25. Garst Seed Company trial, 1983
26. Genetic seed cross data, ca. 1988-1990
27. Germany, contracts, 1989
28. G.H. (Green House) plots, ca. 1989-1990
29. H90 Nursery planning sheets, 1990
30. Hawaii BP field plot notebooks, 1986-1990
31. *Helminthosporium carbonum*, 1991

Box 5

1. HM Tests, seed testing summary reports, 1988
2. Holden's Foundation Seeds hybrid testing, 1989-1991
3. Holden Foundation Seeds hybrid yield data, 1990-1991
4. Holden Foundation Seeds, previous nursery plans, 1987
5. Hughes Hybrids, 1986-1990
6. Hughes Hybrids, 1991
7. Hughes Hybrids, Biogenetic Services Inc., 1990
8. Hughes Hybrids corn data information, newsletters, and catalogs, 1987-1991
9. Hughes Hybrids, hybrid comparisons, 1989
10. Hughes Hybrids, IFS (Illinois Foundation Seeds), 1990
11. Hughes Hybrids, planer guides, with A.L. Hooker's field notes, 1987-1991
12. Hughes Hybrids, research data, 1987-1989
13. Hughes Hybrids, to do, 1990-1991
14. Hughes Hybrids, to farm, notes and data on corn breeding, 1991
15. Hughes Hybrids, USDA grant proposal: Corn Plant Regeneration via Haploid Tissue Culture and Chromosome Doubling, 1987
16. Hybrid seed for tests, 1988-1991
17. I—1991, Inbred increase, 1990-1991
18. Inbred graduation, plus pedigrees M, F, S, 1989
19. Inheritance of resistance to wheat streak mosaic virus in dent corn, undated
20. Kihbi MCO and EFF, 1981
21. Sung M. Lim., recommendation materials, 1990-1991
22. Linkage map of maize (located in Box 7, Folder 1), 1980
23. National Plant Genetic Research Board, 1982

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24. NCR-25 Technical Committee, corn and sorghum diseases, 1988
25. Northern Illinois University, correspondence, 1986-1990
26. Northern Illinois University, miscellaneous notes, 1990-1991
27. Northern Illinois University Plant Molecular Biology Center, 1988
28. Notes on plant pollination research, 1990
29. Nursery, Inbred test plots and data, 1990-1991
30. NUS Nursery field plot notebooks, 1 of 2, 1986-1988
31. NUS Nursery field plot notebooks, 2 of 2, 1989-1991
32. OBSN Field plot notebooks, 1990
33. Performance tests, 1990
34. Pfizer Genetics Conversion Nursery Program, No. 12-14-100-9977(34), Mechanism of Resistance, 1 of 3, 1980-1983

Box 6

1. Pfizer Genetics Conversion Nursery Program, No. 12-14-100-9977(34), Mechanism of Resistance, 2 of 3, 1980-1983
2. Pfizer Genetics Conversion Nursery Program, No. 12-14-100-9977(34), Mechanism of Resistance, 3 of 3, 1980-1983
3. Pfizer Genetics plant breeding and genetics testing development manual, ca. 1980s
4. Pfizer Genetics Research and Development conference photograph, 1981
5. Pfizer Genetics research binder, includes reports, manuals, and correspondence, 1 of 3, ca. 1980s
6. Pfizer Genetics research binder, includes reports, manuals, and correspondence, 2 of 3, ca. 1980s
7. Pfizer Genetics research binder, includes reports, manuals, and correspondence, 3 of 3, ca. 1980s
8. Pfizer Genetics statistical printouts: DeKalb-Pfizer Genetics inbred line evaluation—SCA and GCA, RES 176, October 1982 (located in Box 7, Folder 2)
9. Pfizer Genetics statistical printouts: DeKalb-Pfizer Genetics inbred line evaluation—SCA and GCA, RES 176, October 1982 (located in Box 7, Folder 3)
10. Pfizer Genetics statistical printouts: DeKalb-Pfizer Genetics inbred line evaluation—SCA and GCA, RES 176, December 1982 (located in Box 7, Folder 4)
11. Pfizer Genetics statistical printouts: DeKalb-Pfizer Genetics inbred line evaluation—SCA and GCA, RES 176, 1 of 2, March 1983 (located in Box 7, Folder 5)
12. Pfizer Genetics statistical printouts: DeKalb-Pfizer Genetics inbred line evaluation—SCA and GCA, RES 176, 2 of 2, March 1983 (located in Box 7, Folder 6)
13. Pfizer Genetics statistical printouts: DeKalb-Pfizer Genetics disease rating profile, RES 185, May 1983 (located in Box 7, Folder 7)
14. Proceedings of the Monmouth College Corn Conference, 1981
15. Research and Development Conference on Soybean Diseases and assorted notes, 1981
16. Research notes, correspondence, and data, ca. 1980s
17. Rochelle field plot notebook, 1989-1991
18. Rochelle, HA 89-90, 1989-1990
19. SCA-GCA Report, data for 1982 exchange hybrid parents, 1982
20. Seed hybrid testing and development, miscellaneous notes and data, 1990-1991
21. Seed Nursery, Scalar, Screening, and Crossing Block, John H. Pfund, 1 of 3, 1983
22. Seed Nursery, Scalar, Screening, and Crossing Block, John H. Pfund, 2 of 3, 1983
23. Seed Nursery, Scalar, Screening, and Crossing Block, John H. Pfund, 3 of 3, 1983
24. Seed testing and summary report, 1989

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25. Seed testing data and reports, 1989-1990
26. SI field plot notebook, 1987
27. To farm subject file, 1990-1991
28. U.S. corn hybrid and pedigree lists, 1984-1986

Series 3: Publications, 1950-1984

This series contains articles authored and co-authored by Arthur L. Hooker. The series is arranged chronologically.

29. Publications, 1950-1954
 - Hooker, A.L., and J.G. Dickson. 1952. Resistance to *Pythium* manifest by excised corn-embryos at low temperatures. *Agron. Jour.* 44: 443-447.
 - Hooker, A.L. 1953. Correlation of resistance to eight *Pythium* species in seedling corn. (Abstr.) *Phytopathology* 43: 467.
 - Hooker, A.L. 1954. Severity of corn seedling disease in Iowa soils. *Ia. Acad. Sci.* 60: 158-162.
 - Hooker, A.L. 1954. Relative efficiency of various methods of inducing field infections with *Helminthosporium turcicum* and *Puccinia sorghi*. *Plant Dis. Repr.* 38: 173-177.
 - Hooker, A.L. 1954. Relative pathogenicity of *Pythium* species attacking seedling corn. *Proc. Ia. Acad. Sci.* 60: 163-166.
 - Hooker, A.L. 1954. Severity of corn seedling disease in Iowa soils. *Proc. Ia. Acad. Sci.* 60: 158-162.
30. Publications, 1955-1959
 - Hooker, A.L. 1955. Corn diseases in Iowa nurseries in 1953 and 1954. *Plant Dis. Repr.* 39: 381-383.
 - Hooker, A.L., G.F. Sprague, and W.A. Russell. 1955. Resistance to rust (*Puccinia sorghi*) in corn. *Agron. Jour.* 47: 388.
 - Hooker, A.L. 1955. Intra-inbred line variation in resistance to a *Pythium* seedling disease of corn. *Agron. Jour.* 47: 388.
 - Hooker, A.L. 1955. Additional seed factors affecting stands of corn in cold soils. *Agron. Jour.* 47: 582-585.
 - Hooker, A.L. 1955. Septoria reactions of entries in the North Central State uniform oat yield nursery and other strains in 1955. *Plant Dis. Repr.* 39: 963-966.
 - Hooker, A.L. 1956. Correlation of resistance to eight *Pythium* species attacking seedling corn. *Phytopathology* 46: 175-176.
 - Hooker, A.L. 1956. Association of resistance to several seedling, root, stalk, and ear diseases in corn. *Phytopathology* 46: 379-384.
 - Hooker, A.L., and P.M. LeRoux. 1957. Sources of protoplasmic resistance to rust (*puccinia sorghi*) in corn. *Phytopathology* 47: 187-191.
 - Hooker, A.L. 1957. Factors affecting the spread of *Diplodia zeae* in inoculated corn stalks. *Phytopathology* 47: 196-199.
 - Hooker, A.L. 1957. *Septoria* reactions of oat varieties and selections in 1956. *Plant Dis. Repr.* 41: 385-388.
 - Hooker, A.L. 1957. Methods of inoculation and determining varietal reactions in the *Septoria* disease of oats. *Plant Dis. Repr.* 41: 592-597.

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30. Publications, 1955-1959 (cont.)
- Hooker, A.L. 1957. Cultural variability in *Septoria avenae* through successive single macrospore transfers. *Phytopathology* 47: 460-468.
 - Hooker, A.L. 1957. Varietal reaction correlation studies in the *Septoria* disease of oats. *Agron. Jour.* 49: 600-604.
 - Hooker, A.L. 1958. *Septoria* reactions of oat varieties and selections in 1957. *Plant Dis. Repr.* 42: 20-25.
 - Russell, W.A., and A.L. Hooker. 1959. Inheritance of resistance in corn to rust, *Puccinia sorghi* Schw., and genetic relationships among different sources of resistance. *Agron. Jour.* 51: 21-24.
 - Hooker, A.L. 1959. A non-parasitic leaf spot of oats. *Plant Dis. Repr.* 43: 337-342.
31. Publications, 1960-1964
- Hooker, A.L., and C.B. Henderson. 1960. Relative maturity and reaction of corn inbreds to leaf blight and stalk rot. *Rept. On Plant Dis.* 203.
 - Hooker, A.L. 1960. Sources of resistance to the *Septoria* disease of oats. *Agron. Jour.* 52: 137-138.
 - Hooker, A.L. 1960. Inheritance of reaction to *Septoria avenae* in oats. *Agron. Jour.* 52: 139-143.
 - Craig, J., and A.L. Hooker. 1961. *Diplodia* root and stalk rot of dent corn. *Phytopathology* 51: 382-385.
 - Craig, J., and A.L. Hooker. 1961. Relation of sugar trends and pith density to *Diplodia* stalk rot in dent corn. *Phytopathology* 51: 376-382.
 - Hooker, A.L. 1961. A new type of resistance in corn to *Helminthosporium turcicum*. *Plant Dis. Repr.* 45: 780-781.
 - Hooker, A.L. 1962. Role of fertilizer on corn diseases. Better crops with plant food.
 - Hooker, A.L., C.B. Henderson, and D.E. Yates. 1962. Agronomic characteristics of corn inbreds and their reaction to leaf blights and stalk rot. *Rept. On Plant Dis.* 204
 - Hooker, A.L., C.B. Henderson, and D.E. Yates. 1963. Agronomic characteristics of corn inbreds and their reaction to leaf blights and stalk rot. *Rept. On Plant Dis. Supplement 1.* 204A.
 - Hooker, A.L. 1962. Additional sources of resistance to *Puccinia sorghi* in the United States. *Plant Dis. Repr.* 46: 14-16.
 - Hooker, A.L., and W.A. Russell. 1963. Inheritance of resistance to *Puccinia sorghi* in six inbred lines of corn. *Phytopathology* 52: 122-128.
 - Malm, N.R., and A.L. Hooker. 1962. Resistance to rust, *Puccinia sorghi* Schw., conditioned by recessive genes in two corn inbred lines. *Crop Sci.* 2: 145-147.
 - Russell, W.A., and A.L. Hooker. 1962. Location of genes determining resistance to *Puccinia sorghi* Schw. in corn inbred lines. *Crop Sci.* 2: 477-480.
 - Hooker, A.L. 1962. Corn leaf diseases. *Proceedings of the 17th Annual Hybrid Corn Industry-Research Conference.* pp. 24-36.
 - Hooker, A.L. and M.P. Britton. 1962. The effects of stalk rot on corn yields in Illinois. *Plant Dis. Repr.* 46: 9-13.
 - Hooker, A.L. 1963. Greater resistance to northern corn leaf blight is on the way. *Ill. Res.* 5(1): 8-9.

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31. Publications, 1960-1964 (cont.)

- Hooker, A.L. 1963. A second major gene locus in corn conditioning resistance to *Puccinia sorghi*. *Phytopathology* 53: 221-223.
- Lee, B.H., A.L. Hooker, W.A. Russell, J.G. Dickson, and A.L. Flangas. 1963. Genetic relationships of alleles on chromosome 10 for resistance to *Puccinia sorghi* in 11 corn lines. *Crop. Sci.* 3: 24-26.
- Hooker, A.L. 1963. Inheritance of chlorotic-lesion resistance to *Helminthosporium turcicum* in seedling corn. *Phytopathology* 53: 660-662.
- Hooker, A.L., P.E. Johnson, M.C. Shurtleff, and W.D. Pardee. 1963. Soil fertility and northern corn leaf blight. *Agron. Jour.* 55: 411-412.
- Britton, M.P., and A.L. Hooker. 1963. Failure to control corn stalk rots with above ground applications of protectant fungicides. *Plant Dis. Repr.* 47: 470-471.
- Hilu, H.M., and A.L. Hooker. 1963. Monogenic chlorotic lesion resistance to *Helminthosporium turcicum* in corn seedlings. *Phytopathology* 53: 909-912.
- Hooker, A.L. 1963. Monogenic resistance in *Zea mays* L. to *Helminthosporium turcicum*. *Crop Sci.* 3: 381-383.
- Hilu, H.M., and A.L. Hooker. 1964. Host-pathogen relationship of *Helminthosporium turcicum* in resistant and susceptible corn seedlings. *Phytopathology* 54: 570-575.
- Hooker, A.L., H.M. Hilu, D.R. Wilkinson, and C.G. Van Dyke. 1964. Additional sources of chlorotic-lesion resistance to *Helminthosporium turcicum* in corn. *Plant Dis. Repr.* 48: 777-780.
- A.L. Hooker. 1964. Notes and Brief Articles: Cultural variability, conidial production, and pathogenicity of *Helminthosporium turcicum*. *Mycologia* 56: 775-777.

32. Publications, 1965-1969

- Hilu, H.M., and A.L. Hooker. 1965. Localized infection by *Helminthosporium turcicum* on corn leaves. *Phytopathology* 55: 189-192.
- Hagan, W.L., and A.L. Hooker. 1965. Genetics of reaction to *Puccinia sorghi* in eleven corn inbred lines from Central and South America. *Phytopathology* 55: 193-197.
- Hooker, A.L., R.R. Nelson, and H.M. Hilu. 1965. Avirulence of *Helminthosporium turcicum* on monogenic resistant corn. *Phytopathology* 55: 462-463.
- Hilu, H.M., and A.L. Hooker. 1965. Host-pathogen relationship of *Puccinia sorghi* in nearly isogenic resistant and susceptible seedling corn. *Phytopathology* 54: 563-569.
- Wysong, D.S., and A.L. Hooker. 1966. Relation of soluble solids content and pith condition to *Diplodia* stalk rot in corn hybrids. *Phytopathology* 56: 26-35.
- Yarwood, C.E., and A.L. Hooker. 1966. Heat predisposition to corn rust. *Phytopathology* 56: 510-511.
- Hooker, A.L., and C.E. Yarwood. 1966. Culture of *Puccinia sorghi* on detached leaves of corn and oxalis corniculata. *Phytopathology* 56: 536-539.
- Hooker, A.L. 1966. Use of detached leaves offers advantages in studying plant diseases. *Ill. Research* 8: 19.
- Hooker, A.L. 1967. Diseases and yield barriers. *Proceedings Annu. Hybrid Corn Industry-Research Conference* 22: 30-36.
- Hooker, A.L. 1967. The genetics and expression of resistance in plants to rusts of the genus *Puccinia*. *Annu. Rev. Phytopathology* 5: 163-182.

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32. Publications, 1965-1969 (cont.)

- Hooker, A.L., and K.M.S. Saxena. 1967. Apparent reversal of dominance of a gene in corn for resistance to *Puccinia sorghi*. *Phytopathology* 57: 1372-1374.
- Lim, S.M., J.D. Paxton, and A.L. Hooker. 1968. Phytoalexin production in corn resistant to *Helminthosporium turcicum*. *Phytopathology* 58: 720-721.
- Wilkinson, D.R., and A.L. Hooker. 1968. Genetics of reaction to *Puccinia sorghi* in ten corn inbred lines from Africa and Europe. *Phytopathology* 58: 605-608.
- Saxena, K.M.S., and A.L. Hooker. 1968. On the structure of a gene for disease resistance in maize. *Proc. Nat. Acad. Sci. U.S.* 61: 1300-1305.
- Van Dyke, C.G., and A.L. Hooker. 1969. The Z reaction in corn to *Puccinia sorghi*. *Phytopathology* 59: 33-36.
- Van Dyke, C.B., and A.L. Hooker. 1969. Ultrastructure of host and parasite in interactions of *Zea mays* with *Puccinia sorghi*. *Phytopathology* 59: 1934-1946.
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33. Publications, 1970-1974

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Box 7: Oversized materials, 1980-1983

1. Linkage map of maize, 1980
2. Pfizer Genetics statistical printouts: DeKalb-Pfizer Genetics inbred line evaluation—SCA and GCA, RES 176, October 1982
3. Pfizer Genetics statistical printouts: DeKalb-Pfizer Genetics inbred line evaluation—SCA and GCA, RES 176, October 1982
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7. Pfizer Genetics statistical printouts: DeKalb-Pfizer Genetics disease rating profile, RES 185, May 1983

Processing Notes:

Secondary literature and duplicates were weeded. Publication citations were based on Arthur L. Hooker's 1987 CV. Added folder titles are indicated by []. Processed by Olivia Hagedorn, under the supervision of Susanne Belovari, April 2018.