

**Barbara McClintock Papers**  
**1927-1991**  
**Mss.Ms.Coll.79**

American Philosophical Society  
1993  
105 South Fifth Street  
Philadelphia, PA, 19106  
215-440-3400  
[manuscripts@amphilsoc.org](mailto:manuscripts@amphilsoc.org)

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## Summary Information

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<b>Repository</b>	American Philosophical Society
<b>Creator</b>	McClintock, Barbara, 1902-1992
<b>Title</b>	Barbara McClintock Papers
<b>Date [inclusive]</b>	1927-1991
<b>Call number</b>	Mss.Ms.Coll.79
<b>Extent</b>	70.5 Linear feet
<b>Location</b>	LH-SB-9-7; LH-B-25-4 (OS)
<b>Language</b>	English
<b>Abstract</b>	<p>The maize geneticist Barbara McClintock (1902-1992) is credited with the discovery of "jumping genes," that is chromosomal "crossing over" and translocation. She received the Nobel Prize in Physiology or Medicine in 1983.</p> <p>The collection is organized into six series: I. Correspondence, 1931-1991; II. Subject files, 1938-1989; III. Works by McClintock, 1944-1989; IV. Works by others, 1927-1991; V. Research notes, notebooks, and card files, 1930s-1990s ; VI. Photographs, 1928-1991.</p>
<b>Preferred Citation</b>	Cite as: Barbara McClintock Papers, American Philosophical Society.

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## Background note

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Barbara McClintock, a maize geneticist, was born in Hartford, Connecticut on 16 June 1902. In 1908 her family moved to Brooklyn, New York, where her interest in science began at Erasmus Hall High School. When she finished high school in 1919, McClintock enrolled, despite her parents' opposition, at Cornell University's College of Agriculture. Since the College would not allow women to major in plant breeding, McClintock majored in botany. At the end of her junior year, after having taken a genetics course, she was invited to take the graduate course in genetics and was unofficially made a graduate student. She received her B.A. in 1923, at which time approximately 25% of the graduates from the College of Agriculture were women. She went on to receive her Ph.D. in botany in 1927; her thesis advisor was Lester Sharp, a cytology professor in the Botany Department.

McClintock remained at Cornell doing research for another four years. Then, receiving a fellowship from the National Research Council, she studied and taught at the University of Missouri, California Institute of Technology, and Cornell University between 1931 and 1933. Cornell remained her home base, even though the University did not offer her a job. (The first woman assistant professor at Cornell in a field other than home economics was not appointed until 1947.) In 1933, McClintock received a Guggenheim Fellowship to study in Germany but returned within the year due to the depressed, troubled conditions in Germany. (The geneticist Curt Stern, with whom she had been planning to study, had already left the country.)

McClintock again did research at Cornell until 1936, working in Rollins Emerson's laboratory supported by the Rockefeller Foundation. That year, she moved to the University of Missouri at Columbia, where she was Assistant Professor of Botany until 1940. At that time, not having been offered an incentive to stay, she went to Cold Spring Harbor with Marcus Rhoades where she studied maize until the following November. In December 1941, when Milislav Demerec became Director of the Department of Genetics of the Carnegie Institution of Washington at Cold Spring Harbor, he offered her a one-year position, which was later made permanent. She remained Staff Member at the Carnegie Institution until 1967, when she became Distinguished Service Member.

During her tenure at the Carnegie Institution McClintock was also Consultant (from 1962 to 1969) to the Agricultural Science Program of the Rockefeller Foundation, which funded research in maize in South America. Much of this work involved discussing research results with, among others, Takeo A. Kato Yamakake and Almiro Blumenschein, with whom she later wrote a book, *Chromosome Constitution of Races of Maize*.

McClintock traced genes through the changes in the colored kernels of maize. In the 1930s she discovered "crossing over," in which chromosomes break and recombine to create genetic changes. In the 1950s, she discovered the occurrence of transposable genetic elements and their effect on gene expression; that is, that genes are not fixed like pearls on a string but that they move or "jump" around. She found the first jumping gene on the short arm of chromosome 9. Because the gene broke the chromosome into two parts, she called the gene "DS" or dissociation element. She called the jumping genes "control elements"

because they inactivated neighboring genes on the chromosome. The element, which causes the gene to jump, she called "AC" or activator element.

McClintock's findings were ignored, partly because the complex development patterns of maize were not as clear to everyone else (especially non-maize geneticists) as they were to her. In the 1970s, molecular biologists isolated transposable elements in bacteria and discovered that they were used by cells to control genes, revealing the same discovery that McClintock had made twenty years earlier in maize.

In time, McClintock's work was appreciated and lauded. She received many awards for her research in maize, including an Award of Merit from the Botanical Society of America (1957), the Kimber Genetics Award from the National Academy of Science (1967), the National Medal of Science (1970), the Louis and Bert Freedman Foundation Award for Research in Biochemistry (1978), the John D. and Catherine T. MacArthur Foundation Prize (1978), the Lewis S. Rosenstiel Award (1978), the Albert Lasker Basic Medical Research Award (1981), the Wolf Foundation Award (1981), the Louisa Gross Horwitz Prize (1982), the Charles Leopold Mayer Prize (1982), and the Nobel Prize in Physiology or Medicine (1983). McClintock was the first woman to win an unshared Nobel Prize in that category and the third woman to win an unshared Nobel Prize in science.

McClintock also received numerous honorary degrees, including those from Georgetown University, Harvard University, University of Cambridge, and Yale University. She was a member of various societies, including the American Academy of Arts and Sciences, the American Association for the Advancement of Science, the American Institute of Biological Sciences, the American Philosophical Society, the American Society of Naturalists, the Botanical Society of America, the Genetics Society of America (by which she was elected Vice President in 1939 and the first woman President in 1945), the National Academy of Sciences (she was the third woman ever elected), the National Women's Hall of Fame, the New York Academy of Sciences, and the Royal Society of London.

Barbara McClintock died on 2 September 1992 at age ninety.

## Scope & content

The Barbara McClintock Papers (1927-1991) contain correspondence, subject files, manuscripts of published and unpublished works by McClintock, papers by colleagues and students, research notes by McClintock and by students, and photographs, which document McClintock's career as a maize geneticist. It was thought for some time, according to the data collected by the Genetics Society of America in the late 1970s (see Bentley Glass, *A Guide to the Collections of the American Philosophical Society*), that McClintock had destroyed all of her papers except the research notes. Fortunately, after McClintock's death it was discovered that not everything had been destroyed. The bulk of the collection dates from the 1960s to the 1990s; there are some earlier materials dating from 1927, which McClintock had probably meant to destroy, but which were mixed in with research notes. The collection is mainly in English, but there are a few items in other languages, such as French and Spanish. These latter folders are marked, for example, "Some in Spanish" or "In Spanish," as appropriate.

The papers (124 boxes; 70.5 linear feet) are divided into six series:

Series I.	Correspondence, 1931-1991	(7 boxes; 3.25 linear feet)
Series II.	Subject files, 1938-1989	(3 boxes; 1 linear foot)
Series III.	Works by McClintock, 1944-1989	(11 boxes; 5 linear feet)
Series IV.	Works by others, 1927-1991	(10 boxes; 4.5 linear feet)
Series V.	Research notes and card files, 1930s-1990s	(88 boxes; 55 linear feet)
Series VI.	Photographs, 1928-1991	(4 boxes; 1.5 linear feet)
Series I-VII.	Oversize	(1 box; .25 linear feet)

Materials of a personal nature appear in the following folders: **Series I:** Bhavnani, Mitz; Crowell, Mignon; Helfman, Arthur and Ruth; Willey, Geneva S.; **Series II:** McClintock, Sara and Thomas Henry -- 50th Wedding Anniversary; **Series VI:** Bhavnani, Mitz; Crowell, Frank and Mignon; McClintock, Sara; McClintock, Barbara, May 1985; McClintock, Barbara and David; McClintock, Barbara and

Mitz Bhavnani; [McClintock, Malcolm Rider?]; McClintock, Sara and Mutty; McClintock Family; Unidentified, 1954, 1983, n.d.; Willey, Geneva S. and Tom.

## Arrangement

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Oversized materials follow the same series arrangement as noted above. Cross-referencing to oversized material appears on the folders in the standard sized boxes. All photographs and negatives have been removed from Series I-V and placed in Series VI. Cross-references appear in the original series. Reprints have been moved to the printed materials collection of the APS library. If a reprint was found as an enclosure, a photocopy of the title page was filed in its place. To retrieve reprints, consult the card catalog for printed materials. One 45 rpm audio recording called "The DOUBLE Talking HELIX Blues", which was given to McClintock by Ira Herskowitz was also removed from the collection. To retrieve this item, consult the card catalog for manuscript materials.

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## **Administrative Information**

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### **Publication Information**

American Philosophical Society 1993

## **Provenance**

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### **Acquisition Information**

The McClintock Papers were donated to the APS Library by the estate of Barbara McClintock in 1992.

### **Processing Information**

Catalogued by Miriam Spectre, 1993.

## **Indexing Terms**

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### **Genre(s)**

- Laboratory notebooks
- Laboratory notes
- Lantern slides
- Lectures
- Photonegatives
- Photoprints



## Personal Name(s)

- Beadle, George Wells, 1903-1989
- Blumenschein, Almiro
- Brink, R. Alexander, (Royal Alexander), 1897-
- Brown, W. L., (William L.), 1913-
- Burnham, Charles R. , (Charles Russel)
- Green, Melvin M.
- Kato Yamakake, Takeo Angel, 1932-
- Lederberg, Joshua
- Nelson, Oliver Evans, Jr., 1920-
- Peterson, Peter Andrew, 1925-
- Rhoades, Marcus M., (Marcus Morton), 1903-1991
- Shapiro, James Allen, 1943-
- Sharp, Lester W., (Lester Whyland), b. 1887

## Subject(s)

- Corn--Genetics.
- Crossing over (Genetics)
- Maize--Genetics
- National Medal of Science
- Nobel Prizes
- Plant genetics
- Translocation (Genetics).
- Wolf Foundation Prize
- Women botanists
- Women geneticists
- Women in science
- Women scientists

## Other Descriptive Information

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This collection contains materials which relate to the history of genetics.

Author	Format	Date
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Beadle, George Wells	Correspondence (7 items)	1972-1981
Blumenschein, Almiro	Correspondence (129 items)	1963-1973
Carnegie Institution of Washington	Correspondence (75 items)	1967-1992
Emerson, Rollins Adams	Correspondence (1 item)	1944
Green, Melvin Martin	Correspondence (23 items)	1949-1984
Kato Yamakake, Takeo Angel	Correspondence (2 folders)	1963-1984
Lederberg, Joshua	Correspondence (5 items)	1948
McClintock, Barbara -- Bibliography	Manuscripts (4 pages)	Circa 1930s
McClintock, Barbara -- Curriculum Vitae	Manuscripts (32 pages)	1965-1989
McClintock, Barbara -- Index to Plant Chromosome Numbers	Manuscripts (9 folders)	1959-1965
McClintock, Barbara -- Nobel Prize	Records (2 folders)	1983-1984, 1989
McClintock, Barbara -- Research notes and card files	Notebooks (55 linear feet)	1930s-1990s
McClintock, Barbara -- Works	Manuscripts (5 linear feet)	1944-1989

Wallace, Bruce

Correspondence (23 items)

Circa 1965 - 1982

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## Series I. Correspondence

## Collection Inventory

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<b>Series I. Correspondence</b>	<b>1931-1992</b>	<b>3.25 linear feet</b>
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Incoming and outgoing manuscript and typescript letters, carbons, telegrams, and postcards generated during McClintock's career. Series I is arranged alphabetically by correspondent's name and then chronologically within each folder. When a correspondence file includes letters to a third party (i.e., not McClintock), the name is indicated on the container list by using an indent under the folder title.

Unidentified correspondence has been filed as "Unidentified" and is arranged chronologically.

Enclosed manuscripts have been removed from this series and placed in Series III or IV as appropriate.

As with the reprints, a photocopy of the title page was filed with the original letter. Cross-references are also given for enclosed photographs, which have been removed to Series VI. Letters of reference are filed under the name of the person who is the subject of the letter.

Correspondents include geneticists, maize geneticists, biochemists, chemists, students, and some publishers. The bulk of this series covers the 1960s to the 1990s, and the major topic of this series is maize genetics. Much of the correspondence consists of detailed explanations of McClintock's and others' experimental findings. In some cases, McClintock sent seed packets to a correspondent and kept copies of the packets labeled with the seed type. These packets were photocopied, and the photocopies have been placed in the appropriate correspondent's folder. There is a large amount of correspondence with the Rockefeller Foundation regarding the consulting work she did with them for their Agricultural Science Program in South America. Much of this work involved Takeo A. Kato Yamakake and Almiro Blumenschein; there is also a large amount of correspondence with both of them.

Correspondents in Series I include:

Alberts, Bruce	1970-1982	Box 1
Albrecht-Buehler, Guenter	1983, 1985	Box 1
Anderson, Edgar	1966	Box 1
Armstrong, F.	[196-?]	Box 1
Bard College	1982-1983	Box 1

**Series I. Correspondence**

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Barghoorn, Elso S.			Box 1
See Ser.I, Galinat, Walton C.			
Barkan, Alice	1990-1991		Box 1
Martienssen, Robert			
Barry, Edward G.	1961		Box 1
Beadle, George Wells	1972-1981	7.0 Item(s)	Box 1
Bhavnani, Mitz	1977-1984		Box 1
Bird, Robert McK.	1978		Box 1
Blackburn, Elizabeth H.	1983		Box 1
Blanco, José L.	[196-]		Box 1
In Spanish			
Blumenschein, Almiro	1963-1973	129.0 Item(s)	Box 1
Some in Portuguese			
Brown, William L.			
Kato Yamakake, Takeo Angel			
Painter, Theophilus, 1969			
The Rockefeller Foundation			
Safont, Julio			
See also Ser.I, Brown, William L.			
See also Ser.I, The Rockefeller Foundation			
See also Ser.I, Safont, Julio			
See also Ser.I, Timothy, David H			

**Indexing Terms****Subject(s)**

## Series I. Correspondence

C onferences and symposia  
 C yto genetics  
 E ducational matters  
 G enetics of plants  
 K ato Yamakake, Takeo Angel  
 P ublication  
 R esearch support  
 R esearch support -- Rockefeller Foundation  
 S tatistics, biostatistics, biometrics  
 T ravel -- Brazil  
 T ravel -- Invitations, arrangements  
 T ravel -- South America  
 U npublished manuscripts, notes, etc.  
 Z ea (maize) genetics

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Brandeis University. Rosenstiel Basic Medical Sciences Research Center	1978	Box 1
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See also Ser.VI, Rosenstiel Award

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Brieger, F.G.	1960-1966	Box 1
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The Rockefeller Foundation

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Brink, R. A[lexander]	1972	Box 1
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Brookhaven National Laboratory	1953	Box 1
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Brown, William L.	1959-1967	Box 1
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Blumenschein, Almiro  
 Goodman, Major M.  
 Hyland, Howard L.  
 Kato Yamakake, Takeo Angel  
 Monteiro, Warton  
 The Rockefeller Foundation  
 Timothy, David H.

**Series I. Correspondence**

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See also Ser.I, Blumenschein, Almiro

See also Ser.I, Goodman, Major

See also Ser.I, Jain, H.K.

See also Ser.I, North Carolina State College

See also Ser.I, Timothy, David

Folder #1	1959-1967	Box 1
Folder #2	1968-1991	Box 1
Bukhari, A.I.	1979	Box 1
Burnham, Charles R.	1931-1932, 1962-1984, n.d.	Box 1
Burr, Benjamin	1978-1989	Box 1
See also Ser.I, Cell		
Carnegie Institution of Washington	1967-1992	75.0 Item(s) Box 1
Singer, Maxine F.		

**Indexing Terms****Subject(s)**

☉Carnegie Institution of Washington

☉Cold Spring Harbor Laboratory

☉Congratulations, greetings, thanks -- Nobel Prize

☉Congratulations, greetings, thanks -- Presidential medal

☉Fellowships, assistantships

☉Hershey, Alfred Day

☉History of biology, especially genetics -- Carnegie Institution of Washington

☉Research support

☉Solicitations for support or contribution

☉Watson, James D.

## Series I. Correspondence

## Women scientists

Cattanach, Bruce M.	1966-1967	Box 2
Cell	1982	Box 2
Burr, Benjamin		
Chandler, Vicki L.	1989-1990	Box 2
Chen, Zhixiang	1991	Box 2
See also Ser.I, Klessig, Daniel F.		
Chilton, Mary Dell	1991	Box 2
Chomet, Paul S.	1985-1991	Box 2
Chou, Louise and Tom	1984	Box 2
Chovnick, Arthur	1975-1976	Box 2
Coe, Edward H., Jr.	1962-1988	Box 2
Cole, Jonathan R.		Box 2
See Ser.I, Zuckerman, Harriet		
Columbia University	1982	Box 2
Cone, Karen C.	1989	Box 2
Cooper, Kenneth W.	1971	Box 2
Cornell University	1965-1990	Box 2
Crowell, Mignon	1971	Box 2
Cutler, Hugh	1966-1967	Box 2
See also Ser.I, Timothy, David H.		
Dellaporta, Stephen	1972, 1983	Box 2



## Series I. Correspondence

Doerschug, Earle	1966		Box 2
Dooner, Hugo K.	1980-1990		Box 2
Döring, Peter	1983		Box 2
Dusenbery, Ruth	1972-1973		Box 2
Duvick, Donald N.	1985		Box 2
Dworkin, Martin	1985		Box 2
Shapiro, James A.			
Eagle, Harry	1982		Box 2
Economic Botany	1980		Box 2
See also Ser.I, Goodman, Major M.			
See also Ser.IV, Goodman, Major M., J.S.C. Smith, Takeo A. Kato Y., Variation Within Teosinte			
Emerson, R[ollins] A[dams]	1944	1.0 Item(s)	Box 2
Emory University	1982		Box 2
Fabergé, A.E.	1947		Box 2
Fedoroff, Nina	1968-[1989]		Box 2
Ficsor, Gyula	1968		Box 2
Fincham, John R.S.	1973		Box 2
Flavell, R.B.	1982		Box 2
Fogel, Seymour	1978		Box 2
Galinat, Walton C.	1972, 1975		Box 2
Barghoorn, Elso S.			
Kato Yamakake, Takeo Angel			
Kornberg, Warren			

## Series I. Correspondence

Lonnquist, John H.

See also Ser.I, Kato Yamakake, Takeo Angel

Gall, Joseph Grafton	1972	Box 2
Gavazzi, Giuseppe	1964, 1966, 1981	Box 2
Gearhart, John David	1969-1970	Box 2
Gembloux Agricultural College	1985-1986	Box 2
Genetical Society	1982	Box 2
Genetics	1969-1970	Box 2
<p>Nelson, Oliver E., Jr. See also Ser.I, Sand, Seward A.</p>		
Genetics Society of America, Inc.	1981-1982	Box 2
Genetics Society of Canada	1982-1983	Box 2
Gerstel, Daniel U.	1964	Box 2
Giles, Norman H.	1981-1982	Box 2
[Glass], [H.] Bentley	1940	Box 2
Goodman, Major M.	1965-1982	Box 2
<p>Brown, William L. See also Ser.I, Brown, William L. See also Ser.I, Economic Botany See also Ser.IV, Goodman, Major, J.S.C. Smith, and Takeo A. Kato Y., Variation Within Teosinte</p>		
Grant, William C., Jr.	n.d.	Box 2
Green, Howard	[1979?]	Box 2
Green, Melvin Martin	1949, 1966-1973, 1984	23.0 Item(s) Box 2
Grobman, Alexander	1957-1959	Box 2

## Series I. Correspondence

Harlan, Jack R.	1969	Box 3
Hartl, Daniel L.	1982	Box 3
Helfman, Arthur and Ruth	1988	Box 3
Helfman, David Marc	1991	Box 3
Henry, Susan	1981	Box 3
Holt, H. John	1983	Box 3
Louisa Gross Horwitz Prize		Box 3
See Ser.I, Columbia University		
Hsu, Sun-Yuan	1976	Box 3
Hu, Wilma	1968	Box 3
Hutt, Fred B.	1970	Box 3
Hyams, Jeremy S.	1991	Box 3
Hyland, Howard L.		Box 3
See Ser.I, Brown, William L.		
Iino, Tetsuo	1983	Box 3
International Congress of Plant Molecular Biology	1984	Box 3
See also Ser.III, Mobile Genetic Elements. History and Prospectus		
Ising, Gunnar	1972	Box 3
Jain, H.K.	1972	Box 3
Brown, William L.		
Jewell, David C.	[1983?]	Box 3

## Series I. Correspondence

Jones, Jonathan	1988		Box 3
Judd, Burke H.	1981		Box 3
Kato Yamakake, Takeo Angel	1963-1984	2 folders	Box 3

Galinat, Walton C.

Wallace, Bruce

See also Ser.I, Blumenschein, Almiro

See also Ser.I, Brown, William

See also Ser.I, Galinat, Walton

See also Ser.I, The Rockefeller Foundation

See also Ser.I, Timothy, David

### Indexing Terms

#### Subject(s)

**B**eadle, George Wells

**B**iographical and personal data

**B**lumenschein, Almiro

**C**onferences and symposia

**C**ongratulations, greetings, thanks

**C**ytogenetics

**E**volution

**G**enetics of plants

**G**raduate study

**I**nvestigations

**L**aboratory techniques, equipment

**P**ublication

**R**ecommendations

**R**esearch support

**T**eaching

**T**ravel -- Invitations, arrangements

## Series I. Correspondence

Unpublished manuscripts, notes, etc.

Wallace, Bruce

Zea (maize) genetics

Folder 1	1963-1973	Box 3
Folder 2	1974-1984	Box 3
Kermicle, Jerry L.	1962-1980	Box 3
See also Ser.I, Klein, Anita		
Kleckner, Nancy E.	1990	Box 3
Klein, Anita	1982-1986	Box 3
Kermicle, Jerry L.		
Klessig, Daniel F.	1991	Box 3
Chen, Zhixiang		
Kornberg, Warren	1972	Box 3
See also Ser.I, Galiant, Walton C.		
Kramer, Herbert H.	1950	Box 3
Krikorian, Abraham D.	1973, [1979?]	Box 3
Lamb, Christopher J.	1991	Box 3
Lederberg, Joshua	1948	5.0 Item(s) Box 3
Lewis, Edward B.	1989	Box 3
Lindner, Deborah A.	1992	Box 3
Lonnquist, John H.		Box 3
See Ser.I, Galinat, Walton C.		

## Series I. Correspondence

Lowe, Brenda Ann	1987-1989	Box 3
Lyerla, Timothy A.	1983	Box 3
John D. and Catherine T. MacArthur Foundation	1981-1989	Box 3
See also Ser.II, same title		
McClure, Marcella A.	1990	Box 3
McCormick, Sheila	1978	Box 3
Mangelsdorf, Paul	1958, 1972	Box 3
The Rockefeller Foundation		
Margolin, Paul	1984	Box 3
Marotta, Renzo		Box 3
See Ser.I, Salamini, Francesco		
Martienssen, Robert	1990	Box 3
See also Ser.I, Barkan, Alice		
Martínez, Maria Luísa	1960, 1982	Box 3
Some in Spanish		
Masson, Patrick	1990	Box 3
Charles Léopold Mayer Prize	1982	Box 3
Medical Women's International Association	1987	Box 3
Meins, Frederick, Jr.	1974	Box 3
Metz, C[harles] W.	1934, 1938	Box 3
Miami Winter Symposia	1982	Box 3

## Series I. Correspondence

Middlebury College	1990	Box 3
Miller, George	1982	Box 3
Mitchell, Christine	1986	Box 3
Mooseker, Mark	1991	Box 4
Monteiro, Warton	1962-1964	Box 4
See also Ser.I, Brown, William L.		
See also Ser.I, North Carolina State College		
Moreno, Ulises		Box 4
See Ser.I, North Carolina State College		
Thomas Hunt Morgan Centennial Symposium	1967	Box 4
See also Ser.III, The Expression of the Gene		
Mottinger, John P.	1969, n.d.	Box 4
Nanney, David Ledbetter	[1975]	Box 4
Nasser, DeLill	1989, 1991	Box 4
National Academy of Sciences	1971, 1990-1991	Box 4
Singer, Maxine F.		
Wallace, Bruce		
The National Foundation	1975	Box 4
National Library of Medicine	1986-1987	Box 4
National Research Council	1957-1958	Box 4
Naturvetenskapliga Föreningen	1984	Box 4
Nelson, Oliver E., Jr.		Box 4

## Series I. Correspondence

Peterson, Peter A., 1967

See also Ser.I, Genetics

Folder 1	1961-1969	Box 4
Folder 2	1970-1974	Box 4
Folder 3	1974-1981	Box 4
Folder 4	1982-1987	Box 4
Folder 5	1988-1990	Box 4
Neuffer, M.G.	1965, 1979	Box 4
Nevers, Patricia	1978	Box 4
See also Ser.I, Saedler, Heinz		
New York. Suffolk County	1988	Box 4
New York University	1983	Box 4
Nobel Prize	1983, 1988	Box 5
North Carolina State College	1961-1964	Box 5
Brown, William L.		
Monteiro, Warton		
Moreno, Ulises		
O'Brien, Stephen J.	1984-1986	Box 5
Ohta, Yasuo	1963-1965	Box 5
O'Mara, Joe G.	1946-1947, n.d.	Box 5
Osler, Robert D.	1959, 1970, 1984	Box 5
Paigen, Kenneth	1966-1979	Box 5
Painter, Theophilus		Box 5



## Series I. Correspondence

See Ser.I, Blumenschein, Almiro		
Parratt, Patricia	1986	Box 5
Peterson, Peter A.	1971-1984	Box 5
Rhoades, Marcus M., 1972		
See also Ser.I, Nelson, Oliver E., Jr.		
Phillips, Lyle L.	1964	Box 5
Phillips, Ronald L.	1970-1987, n.d.	Box 5
Proceedings of the National Academy of Sciences	1974, 1989-1991	Box 5
Ptashne, Mark	1982	Box 5
Ramsey, Ann	1988	Box 5
Randolph, L.F.	1972	Box 5
Rhoades, Marcus M.	1949-1982	Box 5
See also Ser.I, Peterson, Peter A.		
The Rockefeller Foundation		Box 5
Blumenschein, Almiro		
Kato Yamakake, Takeo Angel		
Safont, Julio		
Wellhausen, E.J.		
See also Ser.I, Blumenschein, Almiro		
See also Ser.I, Brieger, F.G.		
See also Ser.I, Brown, William		
See also Ser.I, Mangelsdorf, Paul		
See also Ser.I, Timothy, David		
Folder 1	1958-1975	Box 5

## Series I. Correspondence

Folder 2	1976-1982	Box 5
The Royal Society	1989	Box 6
Rutgers the State University of New Jersey	1979-1980	Box 6
See also Ser.III, How chromosomes have been used to trace the origin and migration of races of maize in the Americas		
Saedler, Heinz	1976-1986	Box 6
Nevers, Patricia		
Safont, Julio	1963-1967	Box 6
Blumenschein, Almiro See also Ser.I, Blumenschein, Almiro See also Ser.I, The Rockefeller Foundation		
Sager, Ruth	1949	Box 6
Salamini, Francesco	1982	Box 6
Marotta, Renzo		
Sand, Seward A.	1974-1979	Box 6
Genetics		
Sastry, G.R.K.	1963-1977	Box 6
Schiefelbein, John	1985	Box 6
Schreiber, Giorgio	1964	Box 6
Schubiger, Gerald	1981	Box 6
Schwartz, Drew	1964-1989	Box 6
Shapiro, James A.	1981-1990	Box 6
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## Series I. Correspondence

Shapiro, Lucille	1988	Box 6
Sharp, Lester W.	1932	Box 6
Shepherd, Nancy S.	1984-1988	Box 6
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Sprague, G.F.	1950-1951, 1969, 1982	Box 6
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Stephens, S.G.	1948	Box 6
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Timothy, David H.	1961, 1965, 1982-1983	Box 7
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Brown, William L.		
Cutler, Hugh		
Kato Yamakake, Takeo Angel		
The Rockefeller Foundation		
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University of Puerto Rico	1982	Box 7
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Walbot, Virginia	1987, [1988]	Box 7
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Wallace, Bruce	[1965], 1973-1974, 1982	23.0 Item(s) Box 7
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Brenner, Sidney

See also Ser.I, Kato Yamakake, Takeo Angel

See also Ser.I, National Academy of Sciences

**Indexing Terms****Subject(s)**

Brenner, Sydney

Carnegie Institution of Washington

Crick, Francis H. C.

Cytogenetics

Drosophila genetics

Hershey, Alfred Day

Molecular genetics

Unpublished manuscripts, notes, etc.

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Wayne State University	1983	Box 7
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See also Ser.III, Some Unexpected Results of a Simple Experiment -- Lecture at Wayne State University

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Weaver, Edward A.	1942	Box 7
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Weber, David F.	1967	Box 7
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Wellhausen, E.J.		Box 7
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See Ser.I, The Rockefeller Foundation

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Wesleyan University	1979	Box 7
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See also Ser.III, Modes of Action of Gene-Control System

Wessler, Susan R.	1987-1990	Box 7
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## Series II. Subject files

Series II. Subject files	1938-1989	1.0 linear feet	
<p>Programs, brochures, award certificates, newspaper and magazine clippings, reports, meeting minutes, various versions of McClintock's curriculum vitae, and copies of the "Index to Plant Chromosome Numbers" for 1959-1965. The folders are arranged alphabetically by title and include such subjects as the National Medal of Science and the Wolf Foundation Prize. The material about the Nobel Prize includes commemorative Nobel stamps with McClintock's image that were issued in Sweden.</p>			
American Academy of Arts and Sciences			Box 8
See Oversized			
American Philosophical Society			Box 8
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Bibliography	[193-]	4.0 p.	Box 8
Birth Certificate	1943		Box 8
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Botanical Society of America, Inc.	1958		Box 8
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Clippings	1977-1988		Box 8
Cold Spring Harbor Symposium on Quantitative Biology: Molecular Biology of Development	29 May-5 Jun. 1985		Box 8
Cornell University	1967-1983		Box 8
Curriculum Vitae	1965-1989	32.0 p.	Box 8
Louis and Bert Freedman Foundation Award for Research in Biochemistry	1978		Box 8
Gembloux Agricultural College			Box 8

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Georgetown University	1981		Box 8
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See also Oversized

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Harvard University	1979		Box 9
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Index to Plant Chromosome Numbers, Pre-1956	Apr. 1959		Box 9
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Index to Plant Chromosome Numbers, 1957	Oct. 1958		Box 9
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McClintock, Sara and Thomas Henry -- 50th 3 Jan. 1948 Wedding Anniversary			Box 9
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National Research Council. Committee on Preservation of Indigenous Strains of Maize	1958		Box 9
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Rockefeller University	1979		Box 10
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Seminar on Strategies for Strengthening Agricultural Research in Latin America and the Caribbean	1984	Box 10
Society for Developmental Biology, Inc.	1981	Box 10
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Yale University	1982	Box 10
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**Series III. Works by McClintock****Series III. Works by McClintock****1944-1989****5 linear feet**

McClintock's typewritten and handwritten outlines, preparatory notes, research (including figures and tables), and drafts for articles, books, and lectures. The majority of this series is comprised of lectures, including the notes for the speech that McClintock gave when accepting the Nobel Prize. For each work, the notes and drafts are filed together. This series is arranged alphabetically by title, and cross-references are given for photographs, which appear in this series. The earliest materials in this series are notes on the Maize Genetics Coöperation Newsletter 18 in 1944. There are figures, tables, maps, and drafts for Chromosome Constitution of Races of Maize, a book co-authored with Almiro Blumenschein and Takeo A. Kato Yamakake. Also in this series are the page proofs for The Discovery and Characterization of Transposable Elements, a book of McClintock's collected works.

**Indexing Terms****Subject(s)**

**B**ibliographical matters  
**B**lumenschein, Almiro  
**C**old Spring Harbor Laboratory  
**C**olumbia University  
**C**onferences and symposia  
**C**ytogenetics  
**G**enetics of plants  
**H**onors -- Nobel Prize  
**K**ato Yamakake, Takeo Angel  
**L**ectures, public speaking  
**M**olecular genetics  
**P**ublication  
**U**npublished manuscripts, notes, etc.  
**Z**ea (maize) genetics

The Ac Locus

1949-1950

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Activation of Transposons That Function as Gene-Control Systems -- Lecture	Apr. 1977	Box 11
Activation of Transposons That Function as Gene-Control Systems -- Seminar at Rutgers University	7 Apr. 1977	Box 11
Alteration of Gene Action By Genetic Mechanism -- Seminar at Brandeis University	23 Apr. 1958	Box 11
Amoeba Proteus as Experimental Object	Dec. 1968	Box 11
See also Ser.VI, same title		
Aspects of Control of Gene Action in Maize -- Seminar at Western Reserve University	25 Mar. 1963	Box 11
Aspects of Gene Control in Higher Organisms -- Lecture at Cornell University	16 Nov. 1965	Box 11
Aspects of Gene Regulation Revealed by Transposable Elements -- Lecture at University of Minnesota	17 Apr. 1985	Box 11
Aspects of the Expression of Genetic Materials in Eukaryotic Organisms -- Seminar at Vanderbilt University	30 Oct. 1970	Box 11
Basic Knob Complexes and the Modes of Their Detection	n.d.	Box 11
Bibliographies	1981, 1984	Box 11
California Institute of Technology Lectures	1954	Box 11
Chromosomal Elements Controlling Gene Action -- Lecture at Harvard University	14 Feb. 1958	Box 11

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Chromosome Constitution of Races of Maize with Kato and Blumenschein -- Appendix Figures (Kato)	197-	2 folders	Box 12
Chromosome Constitution of Races of Maize with Kato and Blumenschein -- Appendix Tables (Blumenschein)	197-		Box 12
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Chromosome Constitution of Races of Maize with Kato and Blumenschein -- Maps (Blumenschein)	197-		Box 13
Chromosome Constitution of Races of Maize with Kato and Blumenschein -- Maps (McClintock)	197-	2 folders	Box 13
Chromosome Constitution of Races of Maize with Kato and Blumenschein -- Ms.	197-	4 folders	Box 13
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Components of the Suppressor-Mutator Gene-Control Element	1980-1981	Box 14
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Contribution of Transposable Elements to an Understanding of Developmental Processes -- Lecture	Apr. 1981	Box 14

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Contribution of Transposable Elements to Diversity of Gene Expression During Development -- Lecture at Harvard University	Mar. 1980	Box 14
The Control of Anthocyanin Pigment Development in the Central Flowers of <i>Daucus carota</i> (Queen Ann's Lace)	[1966]	Box 14
The Control of Gene Action in Maize -- Lecture at Brookhaven Symposium	9 Jun. 1965	Box 14
Control of Gene Action in Organisms More Highly Organized Than Bacteria  See Ser.III, New York University Lectures		Box 14
Control of Gene Action: The Locus of the Gene -- Lecture at University of Texas	Feb. 1968	Box 14
Controlling Elements and Developmental Regulation in Maize -- Lecture at Tissue Culture Association Annual Meeting	1983	Box 14
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Controlling Elements in Maize: Their Significance in Regulating Gene Expression During Development -- Lecture	24 Jun. 1981	Box 14
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The Ds Location. Part III. Transposition of the Ds Locus	Jan. 1950	Box 15
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Examples of Modes of Operation of Known Control Systems -- Lecture	5 Mar. 1977	Box 15
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Expanding Concepts in Genetics -- Seminar at Cornell University	18 Mar. 1971	Box 15
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The Expression of the Gene -- Lecture at Thomas Hunt Morgan Centennial Symposium	1966	Box 15
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Initial Evidence Indicating the Presence in the Genome of Components That Regulate the Action of Genes	n.d.		Box 16
Innate Mechanisms That Restructure Chromosome and Their Gene Control Systems	13 Mar. 1978		Box 16
Instability Associated With Insertion of Ac at the Bronze Locus in the Short Arm of Chromosome 9 in Maize	Jan. 1955		Box 16
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Maize Genetics Coöperation Newsletter 18 -- Notes	1944	Box 17
Mechanisms That Rapidly Reorganize the Genome -- Lecture at Stadler Genetics Symposium	8 Apr. 1978	Box 17
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Potentials of the Plant Genome -- Lecture at Cornell University	Jul. 1982	Box 17
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Some Aspects of Gene Control Systems in Maize -- Lecture	12 Nov. 1964	Box 18
Some Aspects of Systems of Control of Gene Action in Maize -- Seminar at Columbia University	12 Dec. 1961	Box 18
Some Unexpected Results of a Simple Experiment -- Lecture at Pasteur Institute	7 Dec. 1982	Box 18
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Systems Controlling Gene Action in Maize and Bacteria -- Seminar at Yale University	23 Feb. 1962		Box 19
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**Series III. Works by McClintock**

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Organisms -- Seminar at Albert Einstein  
College of Medicine

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Why a Geneticist Became Fascinated With 18-May-71  
Some of Our Local Plants -- Lecture

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## Series IV. Works by others

## Series IV. Works by others

1927-1991

4.5 linear  
feet

Articles, notes, reports, and papers written by colleagues and students of McClintock. This series is arranged alphabetically by author and then by title. This series attests to McClintock's practice of keeping up-to-date with the work of others in her field. Many authors are represented by four or more manuscripts, including Bruce Alberts, Guenter Albrecht-Buehler, Almiro Blumenschein, R. Alexander Brink, Benjamin Burr, Paul S. Chomet, Nina Fedoroff, Takeo A. Kato Yamakake, Frederick Meins, Jr., Oliver E. Nelson, Jr., Kenneth Paigen, Drew Schwartz, James A. Shapiro, David F. Weber, and Susan R. Wessler. Cross-references are given for photographs, which appear in this series. Also in this series are notes that McClintock took about works by others; her notes appear with the work or with a copy of the title page if it is a reprint.

**Alberts, Bruce**

1976

Box 21

A Model for Chromatin Based Upon Two  
Symmetrically Paired Half Nucleosomes

**Alberts, Bruce, Abraham Worcel, and  
Harold Weintraub**

1976

Box 21

On the Biological Implications of  
Chromatin Structure

**Alberts, Bruce, C. Fred Morris, David  
Mace, et al.**

n.d.

Box 21

Reconstruction of the T4 Bacteriophage  
DNA Replication Apparatus From Purified  
Components

**Alberts, Bruce and Keith R. Yamamoto**

1976

Box 21

Steroid Receptors: Elements For Modulation  
of Eukaryotic Transcription

**Albrecht-Buehler, Guenter**

n.d.

Box 21

The Autonomous Movements of  
Cytoplasmic Fragments

**Albrecht-Buehler, Guenter**

[1983]

Box 21

## Series IV. Works by others

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 Is Cytoplasm Intelligent, Too?
 

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<b>Albrecht-Buehler, Guenter</b>	n.d.	Box 21
Navigation of Nonneural Cells		

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<b>Albrecht-Buehler, Guenter</b>	n.d.	Box 21
Two Structural Principles Concerning the Formation of the Microtubular Skeleton in Centrioles and Basal Bodies		

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<b>Barkan, Alice and Robert A. Martienssen</b> [1991]		Box 21
Inactivation of Maize Transposon Mu Suppresses a Mutant Phenotype by Activating an Outward-Reading Promoter Near the End of Mu 1		

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<b>Bertani, G.</b>	n.d.	Box 21
Lysogeny		

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<b>Bird, Robert McK.</b>	1978	Box 22
A Model for the Evolution of Maize and Teosinte		

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<b>Blackler, A.W.</b>	1965	Box 22
Germ-Cell Transfer and Sex Ration in <i>Xenopus laevis</i>		

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<b>Blumenschein, Almiro</b>	[1973]	Box 22
The Andean Complex		

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<b>Blumenschein, Almiro</b>	1968	Box 22
Conclusions About Knobs Distribution in Eastern South America		

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<b>Blumenschein, Almiro</b>	1964	Box 22
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## Series IV. Works by others

Identification of Chromosome Segments  
That Contribute to the Specificity of Racial  
Characteristics in Maize

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**Blumenschein, Almiro and R. Vencovsky** [1969] Box 22  
Observed and Expected Heterosis in  
Interracial Crosses of Maize

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**Blumenschein, Almiro** 4 Oct. 1966 Box 22  
Report of the Collecting Trip to the  
Território do Amapá (August 30 to  
September 22, 1966)

See also Ser.VI, same title

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**Braselton, James P.** 1971 Box 22  
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**Rhoades, Marcus M., Ellen Dempsey, and** [1967] Box 28

**Achille Ghidoni**

Elimination of Knobbed Chromosome Arms  
in Maize Induced by Supernumerary B  
Chromosomes

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**Rhoades, Marcus M. and Ellen Dempsey** 1980 Box 28

Genic Content and Structure of Abnormal  
Chromosome 10

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## Series IV. Works by others

<b>Roberts, Lewis M. and Lowell S. Hardin</b>	Oct. 1966	Box 28
A Proposal for Creating an International Institute for Agricultural Research and Training to Serve the Lowland Tropical Regions of the Americas		
<b>Roca, W.M.</b>	11 Sep. 1984	Box 28
Biotechnology: Opportunities for Agricultural Research in Latin America		
See also Ser.III, Comments on Dr. Roca's Presentation		
<b>Rose, Mark</b>	1976	Box 28
The Role of Cell Death in Morphogenesis of the Embryonic Limb		
<b>Rouse, Irving</b>	1964	Box 28
Prehistory of the West Indies		
<b>Rubenstein, I., C.A. Thomas, Jr., and A.D. Hershey</b>	n.d.	Box 28
The Molecular Weights of T2 Bacteriophage DNA and Its First and Second Breakage Products		
<b>Safont, Julio</b>	[196-]	Box 28
Clave Para el Reconocimiento de Quiasmas en Metafase I		
<b>Safont, Julio</b>	[1963]	Box 28
General Report on the Activities Accomplished by Ingeniero Julio Safont at North Carolina State Under the Support of the Rockefeller Foundation		
<b>Safont, Julio</b>	[196-]	Box 28

## Series IV. Works by others

Remark on the Symbols Utilized for the  
Description of the Individual Results in the  
Enclosed Lists

See also Oversized

<b>Schell, J., M. Van Montagu, A. De Picker, n.d. et al.</b>		Box 28
Agrobacterium tumefaciens: What Segment of the Plasmid Is Responsible for the Induction of Crown Gall Tumors?		
<b>Schon, Eric A., Michael L. Cleary, Joel R. Haynes, and Jerry B. Lingrel</b>	1981	Box 28
Structure and Evolution of Goat t -, Betac- and BetaA- Globin Genes: Three Developmentally Regulated Genes Contain Inserted Elements		
<b>Schwartz, Drew</b>	[1972]	Box 28
Controlling Element Mutants and Chromosome Structure		
<b>Schwartz, Drew and Craig S. Echt</b>	1982	Box 28
The Effect of Ac Dosage on the Production of Multiple Forms of Wx Protein by the wxm-9 Controlling Element Mutation in Maize		
<b>Schwartz, Drew and Craig S. Echt</b>	1981	Box 28
Evidence for the Inclusion of Controlling Elements Within the Structural Gene at the Waxy Locus in Maize		
<b>Schwartz, Drew</b>	1982	Box 28
On the Tissue Specific Regulation of Gene Function: Pre-setting and Erasure		

## Series IV. Works by others

<b>Shapiro, James A.</b> Concentric Rings in E. coli Colonies	1990	Box 28
<b>Shapiro, James A. and Barbara Cordell</b> Eukaryotic Mobile and Repeated Genetic Elements	1981	Box 28
<b>Shapiro, James A.</b> Genomic Reorganization in Cell Lineages	n.d.	Box 28
<b>Shapiro, James A. and Clara Hsu</b> The Initial Cell Divisions in the E. coli K-12 Colony  See also Ser.VI, same title	[1988]	Box 28
<b>Shapiro, James A.</b> Intercellular Communication and Genetic Change in Bacterial Populations	1985	Box 28
<b>Shapiro, James A.</b> Mobile Genetic Elements and Cellular Differentiation	[1982]	Box 28
<b>Shapiro, James A.</b> Observations on the Formation of Clones Containing araB-lacZ Cistron Fusions  See also Ser.VI, same title	n.d.	Box 28
<b>Shapiro, James A.</b> Organization of Developing E. coli Colonies Viewed by Scanning Electron Microscopy  See also Ser.VI, same title	[1986]	Box 28
<b>Shapiro, James A.</b>	1981	Box 28

## Series IV. Works by others

Reflections on the Information Content of  
Chromosome Primary Structure and How it  
Changes

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<b>Shapiro, James A.</b>	n.d.	Box 29
Sectoring in <i>E. coli</i> Colonies		

See also Ser.VI, same title

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<b>Shapiro, James A. and David Trubatch</b>	[1990]	Box 29
Sequential Events in Bacterial Colony Morphogenesis		

See also Ser.VI, same title

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<b>Shapiro, James A.</b>	[1985]	Box 29
Some Lessons of Phage Mu		

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<b>Shapiro, James A.</b>	[198-]	Box 29
Unidentified		

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<b>Shapiro, James A. and N. Patrick Higgins</b>	[1987]	Box 29
Variation of Beta-Galactosidase Expression from Mudlac Elements During the Development of <i>E. coli</i> Colonies		

See also Ser.VI, same title

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<b>Shepherd, James F.</b>	1981	Box 29
The Isolation, Culture, and Regeneration of Plant Protoplasts		

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<b>Singleton, Jesse Robertson</b>	1948	Box 29
Cytogenetic Studies of <i>Neurospora crassa</i>		

See also Ser.VI, same title

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<b>Smith-Keary, P.F. and G.W.P. Dawson</b>	1964	Box 29
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## Series IV. Works by others

Episomic Suppression of Phenotype in  
Salmonella

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**Sonneborn, T.M., (Tracy Morton),** [1959] Box 29  
**1905-1981**

The Gene and Cell Differentiation

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**Sorrentino, Jennifer J. and Nancy S.** 1986 Box 29  
**Shepherd**

Cloning of a Ds1-Homologous Element at  
the A1 Locus

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**Sorrentino, Jennifer J., C. O'Reilly, Zs.** 1986 Box 29  
**Schwartz-Sommer, H. Saedler, and N.S.**  
**Shepherd**

Sequence Characteristics of the rDt  
Controlling-Element

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**Spradling, Allan, Sheldon Penman, and** 1975 Box 29  
**Mary Lou Pardue**

Analysis of Messenger RNA in Drosophila  
by In Situ Hybridization: Comparison of  
Cytoplasmic mRNA from Control and Heat  
Shocked Culture Cells

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**Spradling, Allan, Mary Lou Pardue, J.J.** 1977 Box 29  
**Bonner, and J.A. Lengyel**

Drosophila Salivary Glands Polytene  
Chromosomes Studied by In Situ  
Hybridization

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**Spradling, Allan, Mary Lou Pardue, J.J.** 1977 Box 29  
**Bonner, and J.A. Lengyel**

mRNA in Heat Shocked Drosophila Cells

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**Sprague, G.F.** 1969 Box 29

## Series IV. Works by others

Review of Information on Virus Associated  
Genetic Effects

<b>Sprague, G.F. H.H. McKinney, and Lester Greeley</b>	1963	Box 29
Virus as a Mutagenic Agent in Maize		
<b>Stadler, L.J.</b>	1931	Box 29
The Experimental Modification of Heredity in Crop Plants. I. Induced Chromosomal Irregularities		
<b>Stadler, L.J.</b>	1930	Box 29
Recovery Following Genetic Deficiency in Maize		
<b>Starlinger, Peter and Hans-Peter Döring</b>	1984	Box 29
Barbara McClintock's Controlling Elements: Now at the DNA Level		
<b>Starlinger, Peter, Hans-Peter Döring, Martin Geiser, Edward Weck, Ulrike Courage-Tebbe, and Edith Tillmann</b>	1981	Box 29
Controlling Element Ds at the Shrunken Locus in Zea mays		
<b>Starlinger, Peter</b>	1980	Box 29
A Reexamination of McClintock's Controlling Elements in Maize in View of Recent Advances in Molecular Biology		
<b>Steiner, Emil, Maja Koller-Wiesinger, and Rolf Nöthiger</b>	1981	Box 29
Transdetermination in Leg Imaginal Discs of Drosophila melanogaster und Drosophila nigromelanica		



## Series IV. Works by others

<b>Stephens, S.G.</b>	[1948]	Box 29
Spectrophotometric Evidence for the Presence of a Leuco-Precursor of Both Anthoxanthin and Anthocyanin Pigments in Asiatic Cotton Flowers		
<b>Strobel, Edward, Pamela Dunsmuir, and Gerald M. Rubin</b>	1979	Box 29
Transposable Elements in <i>Drosophila melanogaster</i> : Polymorphisms in the Chromosomal Locations of Elements of 412, Copia, and 297 Dispersed Repeated Gene Families		
<b>Sturtevant, A.H.</b>	1936	Box 29
Preferential Segregation in Triplo-IV Females of <i>Drosophila melanogaster</i>		
<b>Sundaresan, Venkatesan and Michael Freeling</b>	n.d.	Box 29
An Extrachromosomal Form of the Mu Transposons of Maize		
<b>Taylor, J. Herbert</b>	1964	Box 29
Regulation of DNA Replication and Variegation-Type Position Effects		
<b>Timothy, David H., C.S. Levings III, D.R. Pring, M.F. Conde, and J.L. Kermicle</b>	1979	Box 29
Systematic Variation and Evolution of Organelle DNAs in the Genus <i>Zea</i> : Teosinte		
<b>Walbot, Virginia and Loverine P. Taylor</b>	1986	Box 29
Isolation and Characterization of a 1.7 kb Transposable Element from a Mutator Line of Maize		

## Series IV. Works by others

<b>Walbot, Virginia, Patricia Leon, and Patricia Bedinger</b>	n.d.	Box 29
Molecular Analysis of the Linear 2.3 kb Plasmid of Maize Mitochondria: Apparent Capture of tRNA Genes from the Main Mitochondrial Genome		
<b>Wallace, Bruce and Thomas L. Kass</b>	1973	Box 30
Some Cytogenetic Aspects of Gene Control Mechanisms		
<b>Weaver, Edward A.</b>	1942	Box 30
A Comparison of X-Ray Induced Mutations and Mutations Occurring Spontaneously in Ring Chromosomes in Maize		
<b>Weber, David F. and Zuo-Yu Zhao</b>	n.d.	Box 30
Analysis of Nondisjunction Induced by the r-X1 Deficiency During Microsporogenesis in <i>Zea mays</i> L		
<b>Weber, David F., Kevin D. Simcox, and Jeffery D. Shadley</b>	n.d.	Box 30
Detection of the Time of Occurrence of Nondisjunction Induced by the r-X1 Deficiency in <i>Zea mays</i> L		
<b>Weber, David F. and Zuo-Yu Zhao</b>	n.d.	Box 30
Effect of Monosomy and Nullisomy on Pollen Development in Monosomics of <i>Zea mays</i> L		
<b>Weber, David F., Tim Helentjaris, and Scott Wright</b>	n.d.	Box 30
Identification of the Genomic Locations of Duplicate Nucleotide Sequences in Maize		

## Series IV. Works by others

by Analysis of Restriction Fragment Length  
Polymorphisms

<b>Weber, David F. and Zuo-Yu Zhao</b>	n.d.	Box 30
Male Gametocyte Development in Monosomics of Maize		
<b>Weber, David F. and Tim Helentjaris</b>	n.d.	Box 30
Mapping RFLP Loci in Maize Using B-A Translocations		
<b>Weissinger, A.K., D.H. Timothy, C.S. Levings III, and Major M. Goodman</b>	n.d.	Box 30
Patterns of Mitochondrial DNA Variation in Indigenous Maize Races of Latin America		
<b>Wessler, Susan R., George Baran, and Marguerite Varagona</b>	1988	Box 30
Alterations in Gene Expression Mediated by DNA Insertions in the Waxy Gene of Maize		
<b>Wessler, Susan R., Stephen L. Dellaporta, Irwin Greenblatt, Jerry Kermicle, and James B. Hicks</b>	1988	Box 30
Molecular Cloning and Structure Characterization of the R Locus of Maize		
<b>Wessler, Susan R.</b>	1988	Box 30
Phenotypic Diversity Mediated by the Transposable Maize Controlling Elements Ac and Spm		
<b>Wessler, Susan R.</b>	1988	Box 30
The Splicing of Maize Transposable Elements from Pre-mRNA		
<b>White, M.J.D.</b>	n.d.	Box 30

## Series IV. Works by others

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 Behavior of the Spindle Attachment in  
 Unequal Bivalents at Meiosis
 

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<b>Wildermuth, HansRudolf</b>	1968	Box 30
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Autoradiographische Untersuchungen  
 zum Vermehrungsmuster der Zellen in  
 Proliferierenden Rüsselprimordien von  
 Drosophila melanogaster

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<b>Wilkes, Garrison</b>	[1976]	Box 30
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Plant Germplasm Resources

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<b>Witkin, Evelyn M.</b>	1967	Box 30
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Mutation-Proof and Mutation-Prone Modes  
 of Survival in Derivatives of Escherichia  
 coli B Differing in Sensitivity to Ultraviolet  
 Light

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<b>Witkin, Evelyn M., Michael Volkert, and Donna L. George</b>	[1975]	Box 30
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Partial Suppression of the LexA Phenotype  
 by Mutations (rnm) Which Restore  
 Ultraviolet Resistance But Not Ultraviolet  
 Mutability to Escherichia coli B/r uvrA lexA

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<b>Witkin, Evelyn M.</b>	1968	Box 30
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The Role of DNA Repair and  
 Recombination in Mutagenesis

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<b>Zheng, Guochang, Yang Quinglan, and Zheng Yongren</b>	[1986]	Box 30
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The Relationship Between Cytomixis,  
 Chromosome Mutation and Karyotype  
 Evolution in Lily

See also Ser.VI, same title

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**Series V. Research notes and card files**

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**Series V. Research notes and card files****1930s-1990s****55 linear feet**

Loose notes, notebooks, card files, and numerous photographs of maize. Because this series documents specific experiments with maize in great technical detail, the folders have been left in the original order in which they were boxed from McClintock's laboratory file cabinets at Cold Spring Harbor. The boxes have been labeled with the cabinet number and drawer number; for a map showing the location of these file cabinets in McClintock's laboratory, see the legal file. Most of the notes remain in folders labeled by McClintock; folders which were extremely acidic were replaced with acid-free folders, and McClintock's labels were copied onto the new folders. Loose notes remain in the boxes as found but were placed in unlabeled acid-free folders. All metal fasteners were removed and replaced with plastic clips when necessary. The notebooks are interspersed with the loose notes in the order in which McClintock arranged them. The card files (27.75 linear feet located at the end of Series V) are mainly culture cards for maize samples, which McClintock studied at Cold Spring Harbor. Many of the prints and slides are probably photographs of these same maize samples. The photographs were not removed to Series VI but left in context in Series V since many are interspersed with research notes.

**Indexing Terms****Subject(s)**

Cold Spring Harbor Laboratory

Unpublished manuscripts, notes, etc.

Zea (maize) genetics

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## Series VI. Photographs

## Series VI. Photographs

1928-1991

1.5 linear  
feet

Includes prints and negatives. Some of the prints are illustrations from articles about maize genetics, many from articles in Series IV, and some from McClintock's book, Chromosome Constitution of Races of Maize. Besides the folders filed under McClintock's name, there are other folders, which contain prints of her. These are filed as: "Blumenschein, Almiro; Kato Yamakake, Takeo Angel; and Barbara McClintock"; "Dunn, L.C. and Barbara McClintock"; "Hershey, Al and Barbara McClintock"; "Albert Lasker Clinical Medical Research Award"; "Marine Biological Laboratory"; "National Medal of Science"; "Nobel Prize #1"; "Possible Short-Term Evolutionary Consequences of Biotechnology"; "Rosenstiel Award"; "Stadler Symposium"; and "Yale University".

"Aug. 30, 1950."

Box A –  
McClintock  
1983

Diagram of chromosome breakage.

1950 August 30

Diagram of chromosome breakage.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2149\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2149)Blumenschein, Almiro; Angel Kato  
Yamakake; and Barbara McClintock.Box A –  
McClintock  
1983

Almiro Blumenschein, Takeo Angel 1966

Kato Yamakake and Barbara McClintock

gathered around table, 1966.

Almiro Blumenschein, Takeo Angel Kato Yamakake and Barbara McClintock gathered around table, 1966.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2147\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2147)

Cornell University, 1928.

Box A –  
McClintock  
1983

## Series VI. Photographs

View of men with dogs, Cornell  
Department of Plant Breeding, 1928.

View of men with dogs, Cornell Department of Plant Breeding, 1928.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2144\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2144)

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Cornell University, 1929 or 1930

Box A –  
McClintock  
1983

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Group portrait, Cornell University's  
Department of Plant Breeding.

Group portrait, Cornell University's Department of Plant Breeding.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2141\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2141)

Group portrait, Cornell University's Department of Plant Breeding.

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Hershey, Al and Barbara McClintock

Box A –  
McClintock  
1983

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Al Hershey and Barbara McClintock.

Al Hershey and Barbara McClintock.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2137\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2137)

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"Inactivation of the Maize Transposable  
Element Activator (Ac) is associated with its  
DNA Modification."

Box A –  
McClintock  
1983

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Maize active/inactive photos. n. d.

Maize active/inactive photos.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2151\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2151)

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Series VI. Photographs

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McClintock, Barbara, ca. 1918.

Box A –  
McClintock  
1983

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McClintock family at piano.

McClintock family at piano.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2146\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2146)

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McClintock, Barbara, [192-?].

Box A –  
McClintock  
1983

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Barbara McClintock, half length portrait, ca. 1925  
ca. 1925.

Barbara McClintock, half length portrait, ca. 1925.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2140\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2140)

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McClintock, Barbara, ca. 1960.

Box A –  
McClintock  
1983

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McClintock, standing outside, half length  
portrait.

McClintock, standing outside, half length portrait.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2138\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2138)

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Barbara McClintock, standing outside  
with cigarette holder.

Barbara McClintock, standing outside with cigarette holder.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2143\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2143)

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Barbara McClintock in cornfield,  
postcard.



Series VI. Photographs

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Barbara McClintock in cornfield, postcard.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2148\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2148)

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McClintock, Barbara, 11 May, 1972.

Box A –  
McClintock  
1983

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Barbara McClintock seated at desk. 1972 May 11

Barbara McClintock seated at desk.

[□](#)

Barbara McClintock seated at desk.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2142\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2142)

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McClintock, Barbara, 1980.

Box A –  
McClintock  
1983

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Barbara McClintock portrait, 1980. 1980

Barbara McClintock portrait, 1980.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2139\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2139)

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McClintock, Barbara #2, 24 May 1982.

Box A –  
McClintock  
1983

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Barbara McClintock, in academic robe, 1982 May 24  
walking in Yale procession.

Barbara McClintock, in academic robe, walking in Yale procession.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2152\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2152)

Barbara McClintock, in academic robe, walking in Yale procession.

[□](#)

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Series VI. Photographs

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McClintock, Barbara, 7 Nov. 1983.

Box A –  
McClintock  
1983

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Barbara McClintock, portrait.

1983 November 7

Barbara McClintock, portrait.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2135\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2135)

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McClintock Family, 1954, 1958-1959, n.d.

Box  
McClintock  
1984 –  
Shapiro #1

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Four McClintock children.

Four McClintock children.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2153\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2153)

Four McClintock children.

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McClintock, Barbara #2 [198-?].

Box  
McClintock  
1984 –  
Shapiro #1

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Barbara McClintock wearing Groucho ca. 1985

Marx glasses.

Barbara McClintock wearing Groucho Marx glasses.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2150\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2150)

Barbara McClintock wearing Groucho Marx glasses.

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## Series VI. Photographs

Nobel Prize #1, [8 Dec. 1983]

Box  
McClintock  
1984 –  
Shapiro #1

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Barbara McClintock at Nobel lecture. 1983 December 8

Barbara McClintock at Nobel lecture.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2145\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2145)

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Rosenstiel Award, 1978.

Box  
McClintock  
1984 –  
Shapiro #1

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Barbara McClintock, at Rosenstiel Award ceremony, standing beside unidentified man. 1978

Barbara McClintock, at Rosenstiel Award ceremony, standing beside unidentified man.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2154\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2154)

Barbara McClintock, at Rosenstiel Award ceremony, standing beside unidentified man.

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Stadler Symposium at University of Missouri, April, 1978

Box Shapiro  
#2 – Y

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Barbara McClintock at Stadler Symposium at University of Missouri, April, 1978.

Barbara McClintock at Stadler Symposium at University of Missouri, April, 1978.

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Barbara McClintock at Stadler Symposium at University of Missouri, April, 1978.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:2136\]](http://diglib.amphilsoc.org/fedora/repository/graphics:2136)

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## Series II, IV. Oversized

Series II, IV. Oversized	Oversize 1
Series II. Subject files	
American Academy of Arts and Sciences	1959
American Philosophical Society	1946
Botanical Society of America	1957
Gembloux Agricultural College	1985
Georgetown University	1981
Harvard University	1979
National Academy of Sciences	1944
Rockefeller University	1979
Rutgers University	1984
Wolf Foundation	1981
Series IV. Works by others	
<b>Safont, Julio</b>	[196-]
Remark on the Symbols Utilized for the Description of the Individual Results in the Enclosed Lists	