

Nina V. Fedoroff Papers
A Finding Aid to the Collection in the Library of Congress



Manuscript Division, Library of Congress
Washington, D.C.
2022

Contact information: <https://hdl.loc.gov/loc.mss/mss.contact>

Catalog Record: <https://lcn.loc.gov/mm2011085579>

Additional search options available at: <https://hdl.loc.gov/loc.mss/eadmss.ms018036>

Prepared by Manuscript Division staff

Finding aid encoded by Library of Congress Manuscript Division, 2018
Revised 2024 March

Collection Summary

Title: Nina V. Fedoroff Papers

Inclusive Dates: 1914-2012

Bulk Dates: 1977-2008

ID No.: MSS85579

Creator: Fedoroff, Nina V. (Nina Vsevolod), 1942-

Extent: 29,000 items

Extent: 80 containers plus 6 oversize

Extent: 33.2 linear feet

Extent: 36,150 digital files (14.91 GB)

Language: Collection material in English

Location: Manuscript Division, Library of Congress, Washington, D.C.

LC Catalog record: <https://lccn.loc.gov/mm2011085579>

Summary: Molecular biologist, geneticist, educator, and science and technology advisor to the United States Department of State. Correspondence, notes, subject files, writings, and speeches in both physical and digital formats relating primarily to Fedoroff's career as a scientist and professor and to her involvement in professional organizations from 1971 to 2012.

Selected Search Terms

The following terms have been used to index the description of this collection in the LC Catalog. They are grouped by name of person or organization, by subject or location, and by occupation and listed alphabetically.

People

Emerson, R. A. (Rollins Adams), 1873-1947.

Fedoroff, Nina V. (Nina Vsevolod), 1942-

McClintock, Barbara, 1902-1992.

Rhoades, Marcus M. (Marcus Morton), 1903-1991.

Organizations

Carnegie Institution of Washington.

Huck Institutes of the Life Sciences.

National Science Board (U.S.)

Pennsylvania State University.

Rockefeller University.

Syracuse University.

United States. Department of State.

University of California, Los Angeles.

Subjects

Corn--Genetics.

Corn--Molecular aspects.

DNA.

Genetics.

Molecular biology.

Nucleotide sequence.

Plant genetics.

Plants--Evolution.

Transposons.

Women in science.

Occupations

Educators.

Geneticists.

Molecular biologists.

Plant geneticists.
Public officials.
Science advisors.

Acquisition Information

The papers of Nina V. Fedoroff were given to the Library of Congress by Fedoroff in 2011. Additional material was given by Fedoroff 2021.

Processing History

The papers of Nina V. Fedoroff were arranged and described by Chad Conrady with the assistance of Chanté Flowers in 2018. The addition was arranged and described in 2022 by Chad Conrady with the assistance of Thomas Bigley.

Digital files were received as part of the Nina V. Fedoroff Papers on a variety of storage media, each of which was assigned a unique digital ID number. Use the digital ID number to request access copies of the files associated with each media. A description of the standard processes taken on all born digital records can be found in the Processing History Note: Born Digital Collection Material at <https://hdl.loc.gov/loc.mss/eadmss.digital>

Additional Description

A complete list of digital files in this collection can be found in [Appendix A: File Directory Listings](#).

Transfers

Items have been transferred from the Manuscript Division to other custodial divisions of the Library. An audiotape was transferred to the Motion Picture, Broadcasting, and Recorded Sound Division. Serial publications were transferred to the Serial and Government Publications Division. All transfers are identified in these divisions as part of the Nina V. Fedoroff Papers. Patrons are encouraged to contact these divisions in advance of a research visit.

Copyright Status

Copyright in the unpublished writings of Nina V. Fedoroff in these papers and in other collections in the custody of the Library of Congress is reserved. Consult reference staff in the Manuscript Division for further information.

Access and Restrictions

The papers of Nina V. Fedoroff are open to research. Many collections are stored off-site and advance notice is needed to retrieve these items for research use. Access to digital content is available onsite only in the Manuscript Reading Room and requires advanced notice. Researchers are advised to contact the Manuscript Reading Room prior to visiting.

Technical Requirements

Digital files were created in a number of operating systems including a Windows operating system and Apple OS 7, 9, and 10. Some files were also created on a Kaypro II computer using the CP/M version 2.2 operating system. The content is primarily text files in .doc, .txt, and .pdf; image files in .jpeg, .tif, .psd, and MacDraw format; moving images in the .mov format; and spreadsheet files in Excel and Cricketgraph. Forensic disk images of Apple-formatted removable drives were created. Access to these files requires the use of an emulating program, such as Basilisk II, SheepShaver, or QEMU, with the appropriate operating system and programs installed. The content created on the Kaypro II computer can only be accessed using a hex editor tool.

Preferred Citation

Researchers wishing to cite this collection should include the following information: Container or digital ID number, Nina V. Fedoroff Papers, Manuscript Division, Library of Congress, Washington, D.C.

Biographical Note

Date	Event
1942, Apr. 9	Born, Cleveland, Ohio
1966	B.S., biology and chemistry, Syracuse University, Syracuse, N.Y.
1972	Ph.D., molecular biology, Rockefeller University, New York, N.Y.
1972-1974	Acting assistant professor of biology, University of California, Los Angeles, Los Angeles, Calif.
1975-1995	Damon Runyan and National Institute of Health (NIH) postdoctoral fellow (1975-1977), research associate (1977-1978), staff member in Embryology (1978-1995), Carnegie Institution of Washington, Washington, D.C.
1978-1995	Professor of biology, Johns Hopkins University, Baltimore, Md.
1981-1984	Editor, <i>Gene</i>
1990-2001	Editor, <i>Perspectives in Biology and Medicine</i>
1992	Published <i>The Dynamic Genome: Barbara McClintock's Ideas in the Century of Genetics</i> . Cold Spring Harbor, New York: Cold Spring Harbor Press
1995-2010	Verne M. Willaman professor of life sciences (1995-2010), director, Huck Institutes of the Life Sciences (1995-2002), Evan Pugh professor (2002), Pennsylvania State University, University Park, Pa.
2003	External faculty, Santa Fe Institute, Santa Fe, N.Mex.
2004	Published <i>Mendel in the Kitchen: A Scientist's View of Genetically Modified Foods</i> . National Academy of Sciences, Washington, D.C.: Joseph Henry Press
2006	Awarded the National Medal of Science
2007-2010	Science and technology advisor to the Secretary of State and to the administrator of United States Agency for International Development (USAID), Washington, D.C.
2011-2014	Distinguished professor of biosciences, King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia
2013	Published <i>Plant Transposons and Genome Dynamics in Evolution</i> . Hoboken, N.J.: Wiley-Blackwell

Scope and Content Note

The papers of Nina Vsevolod Fedoroff (1942-) span the years 1914-2012, with the bulk of the material dating from 1977 to 2008. The collection documents Fedoroff's work as a molecular biologist, including her pioneering research into genetic sequencing. The collection also includes her seminal research and writing on isolating plant transposable elements. The collection chronicles Fedoroff's involvement in the scientific world, promoting greater international understanding of genetic advances in plants as a method to better support the world's populations through the creation of plants more resistant to climate change and other agricultural issues. The collection is in English and includes correspondence with other scientists, lab notes, scientific papers and other writings, speaking engagements, and materials from her career at Pennsylvania State University, University Park, Pennsylvania. The collection is arranged into ten series: [Correspondence](#), [Notes and Notebooks](#), [Cross Cards](#), [Negatives and Slides](#), [Writings](#), [Speeches and Events](#), [Subject File](#), [Digital File](#), [2022 Addition](#), and [Oversize](#).

The majority of the [Correspondence](#) series, 1979-2007, relates to grant applications used to fund and support Fedoroff's research at the Carnegie Institute of Washington, Washington, D.C., and at Pennsylvania State University. Supporting materials provide detailed descriptions of the project goals, document background and research significance, list the type of equipment used in a project, and include feedback from other scientists and the funding institution. In instances where the

grant was for a continuation of support for a project, a description of the progress made and information obtained during the previous funding cycles is provided. This series also features correspondence regarding patent applications on methods developed by Fedoroff to isolate and manipulate genetic sequences in plants as well as on isolated cloned genes created through Fedoroff's research. The correspondence, both physical and digital, includes requests of scientists from around the world asking for plasmids of cloned genes for use in their own experiments. It includes digital files copied from a variety of storage media with each piece of storage media assigned a unique digital ID number.

The [Notes and Notebooks](#) series, 1942-2004, is the largest single group of records in the collection and includes materials from when Fedoroff was an undergraduate at Syracuse University through to her research at Pennsylvania State University. The notes from Fedoroff's time as an undergraduate and graduate student set the foundation for her later work and interest in genetics. This series includes Fedoroff's lab notes as a postdoctoral researcher, working with Donald Brown, when she pioneered deoxyribonucleic acid (DNA) sequencing by determining the complete nucleotide sequence of African clawed frogs. The core of this series pertains to Fedoroff's seminal work on isolating the molecular characterization of maize and other plants' transposable elements and applying these lessons to modify the genetics of plants while at the Carnegie Institute of Washington and at Pennsylvania State University. Also included in the series are copies of Barbara McClintock's lab notes from the early 1940s regarding the "jumping genes" or transposable elements in corn genes. These notes were given to Fedoroff when she first started exploring these topics in the late 1970s and early 1980s. The series also features notes taken by Fedoroff at various conferences and meetings regarding plant and bacterial genetics. Many of the conference notes were taken during the Cold Spring Harbor Symposium and the Carnegie Mini-Symposium of the 1980s and 1990s. These notes also show Fedoroff's interest in the development of genetics internationally, including work presented at a North Atlantic Treaty Organization (NATO) conference on wheat and rye plant genomes, a Soviet gene symposium which focused on a human growth hormone, and notes on the International Genetics Congress meeting in 1988.

The [Cross Cards](#) series, 1979-1988, is an extension of Fedoroff's lab notes while at the Carnegie Institution of Washington, comprising note cards that provide details on parent and offspring plant crosses and their genetic elements. The series provides insight into the preparation and methods used by Fedoroff and her staff to recover DNA from plants and develop a growing media for the plants.

The [Negatives and Slides](#) series, 1977-2006, primarily consists of slides of experiments conducted on plants by Fedoroff and her staff at the Carnegie Institute of Washington and Pennsylvania State University. The slides also feature images taken through microscopes of plant development with specific areas of the plant highlighted with dye. The series includes images of maize grown by Fedoroff showing the changes from crossing two plants. The slides concerning maize contain magnified corn kernels with transposable elements and include Fedoroff's notes written on the border of the slide. The series also contain slides from lectures given by Fedoroff during her time at the Carnegie Institute of Washington and Pennsylvania State University. The film negatives consist of plant specimens and maize kernels used in experiments.

The [Writings](#) series, 1914-2003, consists of published scientific articles and other writings by Fedoroff. These writings include her earliest research documenting phage f2 replicase at the Rockefeller University, New York, N.Y., and the isolation of messenger ribonucleic acid in mice at the University of California, Los Angeles. The series also features the published articles in the late 1970s on Fedoroff's experiments sequencing frog DNA. After sequencing frog DNA, her research and published articles changed focus to the isolation and molecular characterization of plant transposable elements making this topic the bulk of Fedoroff's writing. This series also includes writings from her doctoral students at Pennsylvania State University, and other plant geneticists such as Royal Alexander Brink, Edward H. Cole, R. A. Emerson, Irwin M. Greenblatt, Barbara McClintock, and M. M. Rhoades. The writings of R. A. Emerson span the early 1900s to the late 1920s, while those of Barbara McClintock and M. M. Rhoades date back to the early 1930s and continue to the 1990s. The writings center on the development of plant genetics and the presence of transposable elements in plants.

The [Speeches and Events](#) series, 1995-2007, starts when Fedoroff came to Pennsylvania State University, and features correspondence, notes, abstracts, pamphlets, and other materials related to speeches given by Fedoroff at a wide variety of venues including universities, conferences, symposia, and a few international forums. Topics include diversifying the science community by advocating and supporting women in science fields and Fedoroff's research interests regarding mutating plant DNA through transposon elements.

The [Subject File](#), 1973-2007, spans a variety of topics and includes some teaching files from Pennsylvania State University. The bulk of the materials relates to Fedoroff's work as a member of consulting committees and professional societies, as well as materials related to doctoral students and postdoctoral researchers she worked with and instructed at both the Carnegie Institution of Washington and at Pennsylvania State University. Those materials concerning her

consulting committees include correspondence, travel expenses, nominations for membership, and meeting notes, and those of doctoral students and postdoctoral researchers include correspondence, drafts of published works, and notes on experiments. The series includes digital files copied from a variety of storage media.

The [Digital File](#) series, 1989-2008, complements the paper files and includes additional materials related to Fedoroff's work at Pennsylvania State University, published writings and drafts, grant proposals, presentations, experiments completed at Pennsylvania State University, and Fedoroff's work on consulting committees and professional organizations. This series includes correspondence, images, videos, PowerPoint presentations, spreadsheets, draft manuscripts, and website materials. In instances where digital media was found with the collection's paper content, the digital materials are described alongside the paper records. A complete list of digital files in this collection can be found in [Appendix A: File Directory Listings](#).

The [2022 Addition](#), 1971-2012, expands upon material elsewhere in the collection documenting Fedoroff's research and interest in plant genetics. The addition supplements publications authored by Fedoroff and includes edited drafts, correspondence, and images and graphs related to the publications. The addition also includes photographs and notes associated with research on transposons, known as jumping genes, in plants.

The [Oversize](#) series, 2000-2005, consists of a group of large photographs taken of the National Science Board. This series includes a collection of seeds Fedoroff received from Barbara McClintock in the early 1980s when Fedoroff was starting to explore transposable elements of maize. These seeds were housed in labeled envelopes but were relabeled and rehoused in glass vials by Library of Congress staff.

Arrangement of the Collection

This collection is arranged in ten series:

- [Correspondence, 1979-2007](#)
- [Notes and Notebooks, 1942-2004](#)
- [Cross Cards, 1979-1988](#)
- [Negatives and Slides, 1977-2006](#)
- [Writings, 1914-2003](#)
- [Speeches and Events, 1995-2007](#)
- [Subject File, 1973-2007](#)
- [Digital File, 1989-2008](#)
- [2022 Addition, 1971-2012](#)
- [Oversize, 2000-2005](#)

Description of Series

Container

Series

BOX 1-8

Correspondence, 1979-2007

The Correspondence series contains Fedoroff's correspondence with businesses, organizations, and colleagues interested in her jumping gene research on corn and plant DNA. The majority of the correspondence relates to Fedoroff's research grant proposals and patent applications from discoveries made during her research. The grant proposals document Fedoroff's planning of her research which included topics such as the molecular biology of the suppressor-mutator controlling elements in corn, and the molecular studies on maize controlling elements. Digital content is included in the grant files and some of the grant proposals also overlap with material in the [Digital File](#) series.

Arranged alphabetically by subject or type of material. The grant proposal materials are arranged chronologically based on the date given on the proposal and those that span multiple years are based on the date stated on the renewing documents.

BOX 8-38

Notes and Notebooks, 1942-2004

The Notes and Notebooks series constitutes a significant portion of the collection and contains volumes written exclusively by Fedoroff, or in collaboration with others such as laboratory notebooks written by Fedoroff's students, postdoctoral researchers, or technicians. The series includes copies of Barbara McClintock's notes dating back to early 1940s, and include McClintock's research on maize chromosomes and transposition. The Notes and Notebooks series includes volumes detailing Fedoroff's discovery of how to sequence the nucleotides of *Xenopus laevis*. The Notes and Notebook series primarily focuses on Fedoroff's research in transposable elements in plants in order to make them resistant to drought, pesticides, and hardier in adverse climates. The Notes and Notebooks series complements other series in the collection, especially the [Cross Cards](#), [Negatives and Slides series](#), [Writings series](#), and the [Digital File series](#).

Arranged alphabetically by subject. The conference and meetings notes are arranged chronologically by the date of the event.

BOX 40-51

Cross Cards, 1979-1988

The Cross Cards series contains the note cards used by Fedoroff to document the plant crosses used in her experiments. In the 1990s Fedoroff started using the Hypermaize program, a derivative of the Hypercard program, to record plant crosses records. These files are found in the [Digital File](#) series. The Cross Cards series also compliments other series, in particular the [Notes and Notebook](#) series.

Arranged chronologically except the "Notes on plants in Florida".

BOX 51-54

Negatives and Slides, 1977-2006

The Negatives and Slides series contains the photographic negatives and slides of plants used to document genetic experiments done by Fedoroff and laboratory staff members. The Negatives and Slides series complements other series in the collection, especially the [Notes and Notebooks series](#), [Cross Cards series](#), and the [Writings series](#).

Arranged by type of material and alphabetically therein.

BOX 58-59

Writings, 1914-2003

The Writings File reflects the breadth of Fedoroff's research projects and her contributions in identifying and manipulating plant genetics. These files primarily include published articles by Fedoroff but also include published articles of other scientists who researched plant genetics. The Writing Files provide published documentation of some of the discoveries

made from Fedoroff's laboratory. The Writings File complements other series in the collection, especially the [Cross Cards](#), [Negatives and Slides](#), and the [Digital File](#). Arranged into two groups, those written by Fedoroff and those written by others. Those written by Fedoroff are arranged chronologically and those written by others are arranged alphabetically by the name of the author. In the event of multiple authors or an author's name was not stated, the article is listed by subject.

BOX 59-61

Speeches and Events, 1995-2007

The Speeches and Events File consists of speeches and talks given by Fedoroff throughout her career at Pennsylvania State University. The file contains informal talks as well as formal presentations made at professional conferences and meetings. The files include both typescripts and handwritten speeches as well as background material for Fedoroff's speeches. The Speeches and Events File complements other series in the collection, in particular the [Digital File](#).

Arranged chronologically by the date of the event.

BOX 62-66

Subject File, 1973-2007

The Subject File documents Fedoroff's her involvement with businesses and science advisory boards to further the exploration of plant genetics. The series also includes correspondence and other materials related to the doctoral candidates and postdoctoral assistants she worked with in her laboratories starting in the late 1970s.

Arranged alphabetically by subject or type of material.

DF

Digital File, 1989-2008

The Digital File contains much of the materials produced by Fedoroff from the 1990s to the 2000s, including correspondence with friends and colleagues. The majority of the Digital Files series focuses on her transposable elements research and her involvement at Pennsylvania State University when she became the Verne M. Willaman Professor of Life Sciences and Director of the Huck Institutes of the Life Sciences. When Fedoroff transitioned to Pennsylvania State University from the Carnegie Institute of Washington many of the research grants she was working on transferred with her. The Digital File series consists of laboratory research notes and documentation recording the methods and procedures used in the experiments. The collection includes a group of Hypermaize cards. Hypermaize is a derivative of Apple's Hypercard program used to store and analyze data gathered over generations of maize crosses. The Hypermaize stacks and images created using MacDraw require emulation to access. The Digital File series also documents the courses taught by Fedoroff and the administration of the Huck Institutes of the Life Sciences. Request files using the Digital ID number. A complete list of digital files in this collection can be found in [Appendix A: File Directory Listings](#).

Arranged alphabetically by subject or type of material.

BOX 67-80

2022 Addition, 1971-2012

The 2022 Addition expands upon earlier material elsewhere in the collection, documenting Fedoroff's research and interest in plant genetics. The addition supplements publications authored by Fedoroff and includes edited drafts, correspondence, and images and graphs related to the publications. The addition also includes photographs and notes associated with research on transposons, known as jumping genes, in plants.

Arranged in six groupings: Notes and notebooks, Speeches and events, Writings, Photographs, Subject file, and Digital file.

BOX OV 1-OV 5

Oversize, 2000-2005

Matted photographs of the National Science Board and a collection of maize seeds given to Nina V. Fedoroff by Barbara McClintock in the early 1980s. The seeds were originally received in seed packets with groups of seed packets bound together with a binder clip. The contents of individual seed packets were rehoused in small glass vials with groups of seed packets organized by a color chart on the back cover of the box.

Arranged alphabetically by subject or type of material.

Container List

Container	Contents
BOX 1-8	Correspondence, 1979-2007 <p>The Correspondence series contains Fedoroff's correspondence with businesses, organizations, and colleagues interested in her jumping gene research on corn and plant DNA. The majority of the correspondence relates to Fedoroff's research grant proposals and patent applications from discoveries made during her research. The grant proposals document Fedoroff's planning of her research which included topics such as the molecular biology of the suppressor-mutator controlling elements in corn, and the molecular studies on maize controlling elements. Digital content is included in the grant files and some of the grant proposals also overlap with material in the Digital File series.</p> <p>Arranged alphabetically by subject or type of material. The grant proposal materials are arranged chronologically based on the date given on the proposal and those that span multiple years are based on the date stated on the renewing documents.</p>
BOX 1	American Association for the Advancement of Science, 1999
BOX 1	<i>Arabidopsis</i> genome workshop, 1994
BOX 1	<i>Arabidopsis</i> seed stock donation, 1992-1993
BOX 1	Basic local alignment search tool, 1993
BOX 1	Council for Agricultural Science and Technology, 1998
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BOX 1	Evogene, Ltd., 2007
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BOX 1	Grant proposals
BOX 1	1979
BOX 1	1982
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BOX 1	1983
BOX 1	1984
BOX 1	1988-1999 <i>See also Digital File, 1991-1996</i>
BOX 2	(2 folders)
BOX 2	1991-1995 <i>See also Digital File, same heading</i>
BOX 2	1994
	(2 folders)
BOX 2	1994-1995
	(2 folders)
BOX 2	1995
	(3 folders)
BOX 3	1996
	(8 folders)
BOX 3	1996-2000 <i>See also Digital File, same heading</i>
	Paper file
	(2 folders)
DF	Digital file
	In addition to paper materials, folder 1 included two (2) 3.5-inch floppy disks. Digital files copied from these media are described below.

Correspondence, 1979-2007

Container

Contents

	"FY 1997 Task Book Electronic Data Update Form NASA Office of Life and Microgravity Sciences and Applications Life Sciences Division," 1997 Digital ID: mss85426_060_146
	"FY 99 NASA Life Sciences Task Book Form," 1999 Digital ID: mss85426_060_147
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BOX 5	2001
	(9 folders)
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	(2 folders)
BOX 7	Plasmid agreements, 1985-1995
	(3 folders)
BOX 8	Plasmid requests, 1985-1996
BOX 8	Suppressor mutator curvature, 1987
BOX 8	University of Missouri-Columbia, Restriction Fragment Length Polymorphisms Laboratory, Columbia, Mo., 1995

BOX 8-38

Notes and Notebooks, 1942-2004

The Notes and Notebooks series constitutes a significant portion of the collection and contains volumes written exclusively by Fedoroff, or in collaboration with others such as laboratory notebooks written by Fedoroff's students, postdoctoral researchers, or technicians. The series includes copies of Barbara McClintock's notes dating back to early 1940s, and include McClintock's research on maize chromosomes and transposition. The Notes and Notebooks series includes volumes detailing Fedoroff's discovery of how to sequence the nucleotides of *Xenopus laevis*. The Notes and Notebook series primarily focuses on Fedoroff's research in transposable elements in plants in order to make them resistant to drought, pesticides, and hardier in adverse climates. The Notes and Notebooks series complements other series in the collection, especially the [Cross Cards](#), [Negatives and Slides series](#), [Writings series](#), and the [Digital File series](#).

Notes and Notebooks, 1942-2004

Container	Contents
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Arranged alphabetically by subject. The conference and meetings notes are arranged chronologically by the date of the event.

BOX 8	Academics
BOX 8	Biochemistry, 1963-1968
BOX 8	Bioenergetics, undated (2 folders)
BOX 8	Biological and chemical methods, 1968-1971
BOX 8	Biophysics, undated
BOX 8	Calculus, 1963
BOX 9	Calculus, 1963
BOX 9	Evolution, 1968
BOX 9	Mutator genes research, 1967
BOX 9	Nucleic acids, 1969 (2 folders)
BOX 9	Protein chemistry, 1968 (2 folders)
BOX 9-10	Relicase
BOX 9	Vol. 1, 1970, Sept.-Dec. (2 folders)
BOX 9	Vol. 2, 1971, Jan.-Mar
BOX 10	Vol. 2, 1971, Jan.-Mar
BOX 10	Vol. 3, 1971, Apr.-July (2 folders)
BOX 10	Vol. 4, 1971, July-Nov. (3 folders)
BOX 10	Vol. 5, 1971, Nov.-1972, July
BOX 10	Rifampicin, 1967-1970 (3 folders)
BOX 11	Undergraduate research, 1965
BOX 11	Conferences and meetings
BOX 11	1978-1979
BOX 11	1980-1982
BOX 11	1982
BOX 11	1983-1984
BOX 12	1985
BOX 12	1985-1995
BOX 12	1987
BOX 13	1987-1990 (2 folders)
BOX 13	1990-1991
BOX 13	1991-1993
BOX 14	1993
BOX 14	1995
BOX 14	1996
BOX 14	1998-1999
BOX 15	2000

Notes and Notebooks, 1942-2004

Container	Contents
BOX 15	2001
BOX 15	2002-2004
BOX 15	Undated
BOX 16	Undated
BOX 16	McClintock, Barbara
BOX 16	Activator and dissociation elements
BOX 16	Breakage-fusion-bridge cycle and dissociation element deletions, 1949-1956, 1974, 1981 (2 folders)
BOX 16	<i>bz-m2</i> and <i>bz-m4</i> alleles, 1954-1955, 1964, 1974, 1979 (2 folders)
BOX 16	Induction of mutations by dissociation element, 1952 (2 folders)
BOX 16	Transposition of the dissociation locus, 1949
BOX 17	<i>am-2</i> allele, 1942-1968, 1985 (3 folders)
BOX 17	Suppressor mutators, 1958-1965, 1980 (3 folders)
BOX 17	Research and data
BOX 17	5S DNA
BOX 17	58 nucleotide fragment, 1975-1977
BOX 17	Deletions, 1977-1978 (3 folders)
BOX 18	General, 1977-1978 (2 folders)
BOX 18	Spacer, 1975-1977 (2 folders)
BOX 19	Spacer, 1975-1977 (3 folders)
BOX 19	<i>Xenopus leavis</i> , 1975-1977 (2 folders)
BOX 19	19S promoter to Lucifer reactor, 1991 (2 folders)
BOX 19	<i>Acb2-m2</i> , 1983 (2 folders)
BOX 20	Activator constructs; mobile neomycin orthophosphate's II
BOX 20	Vol. 1, 1986, Aug.-Dec. (3 folders)
BOX 20	Vol. 2, 1987, Mar.-Jan. (2 folders)
BOX 21	Vol. 3, 1988, Oct.-1987, June (3 folders)
BOX 21	Activator transformation, 1985 (2 folders)
BOX 21	Activator, or <i>FA</i> protein and complementary DNA, 1989
BOX 21	Activator, suppressor mutators in bacterium plasmids, 1985-1986 (2 folders)
BOX 21	<i>Armagnac</i> genome, 1983 (2 folders)

Notes and Notebooks, 1942-2004

Container	Contents
BOX 22	<i>Armagnac</i> genome, 1983 (2 folders)
BOX 22	<i>a-m2</i> methylated, 1985-1986
BOX 22	<i>Arabidopsis</i>
BOX 22	Chlorofluorocarbon resistance, 1991
BOX 22	Transferability, 1995-1996
BOX 22	Root structure, 1993
BOX 22	Sequenced and mapped "S" transposition insertion sites, 1998-2002 (4 folders)
BOX 22	Bar gene, 1994
BOX 23	Brook haven 1979, 1984
BOX 23	Z: glucose transferrin, 1978-1980 (5 folders)
BOX 23	<i>bx-mu</i> allele, 1983-1985 (3 folders)
BOX 24	<i>bx-mu</i> allele, 1983-1985 (4 folders)
BOX 24	C series and neomycin orthophosphate's I digests of plant samples, 1992-1993 (2 folders)
BOX 24	Cultures: 1-182, 1979
BOX 24	Cytosine disseminate "(cod A)," 1993-1995
BOX 25	Differential inheritance of inactive suppressor mutator in main stalk and tillers, 1988 (2 folders)
BOX 25	Dissociation lines, 1995-1996
BOX 25	Dissociation ribonucleic acid, 1974-1976 (5 folders)
BOX 26	Dissociation ribonucleic acid, 1974-1976 (4 folders)
BOX 26	Denuclearise IV, 1972-1973 (5 folders)
BOX 27	Enzymes, 1975-1976 (2 folders)
BOX 27	General, 1977-1981, 1989 (2 folders)
BOX 27	Genetic crosses, 1983-1989 (2 folders)
	Genetic crosses, 1983-1989 (4 folders)
BOX 28	Green fluorescent protein, 1994-1995
BOX 28	Immunological
BOX 28	General, 1973-1974 (3 folders)
BOX 29	Purification, 1974 (3 folders)
BOX 29	Ribonucleic acid, 1974 (4 folders)
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Notes and Notebooks, 1942-2004

Container	Contents
BOX 30	Inactivation of suppressor mutator element in <i>a-m2-7991A1</i> and <i>a-m5c</i> , 1987-1988 (3 folders)
BOX 30	Labeled <i>21A</i> protein with haemolytic treatment before and after incorporation, 1974 (2 folders)
BOX 30	<i>LRP1</i> locus, 1993-1996
BOX 30	Lucifer gene, 1994-1995
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BOX 30	Maize genetics, 1977-1985 (3 folders)
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BOX 31	<i>Mas-hph-mas XhoI</i> map and sequence, 1994
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BOX 31	<i>Nac-Ac Ds GUS</i> constructs map and sequence, 1996
BOX 31	Nuclear localization signals, 1988-1994
BOX 31	<i>pCGN1547</i> map and sequence, 1994
BOX 31	Plasmid digest with tetracycline depressor protein and <i>amp5</i> resistance, 1989
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BOX 38	Tetracycline repressor protein and <i>CaMV 35S</i> promoter for <i>Arabidopsis</i> , 1992
BOX 38	Thermal asymmetric interlaced-polymerase chain reaction, 1993 (2 folders)
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BOX 38	Wheat germ leukocytes, 1974
BOX 38	X cloning, 1982-1983
BOX 39	X cloning, 1982-1983 (4 folders)
BOX 40-51	Cross Cards, 1979-1988 The Cross Cards series contains the note cards used by Fedoroff to document the plant crosses used in her experiments. In the 1990s Fedoroff started using the Hypermaize program, a derivative of the Hypercard program, to record plant crosses records. These files are found in the Digital File series. The Cross Cards series also compliments other series, in particular the Notes and Notebook series. Arranged chronologically except the "Notes on plants in Florida".
BOX 40-41	Culture cards, 1979-1988
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BOX 51-54	Negatives and Slides, 1977-2006 The Negatives and Slides series contains the photographic negatives and slides of plants used to document genetic experiments done by Fedoroff and laboratory staff members. The Negatives and Slides series complements other series in the collection, especially the Notes and Notebooks series , Cross Cards series , and the Writings series . Arranged by type of material and alphabetically therein.
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BOX 52	Lecture, 1984-1998, undated (7 folders)
BOX 53	Maize
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BOX 54	Transposition tagging, 1997, undated
BOX 58-59	Writings, 1914-2003 The Writings File reflects the breadth of Fedoroff's research projects and her contributions in identifying and manipulating plant genetics. These files primarily include published articles by Fedoroff but also include published articles of other scientists who researched plant genetics. The Writing Files provide published documentation of some of the discoveries made from Fedoroff's laboratory. The Writings File complements other series in the collection, especially the Cross Cards , Negatives and Slides , and the Digital File .

Arranged into two groups, those written by Fedoroff and those written by others. Those written by Fedoroff are arranged chronologically and those written by others are arranged alphabetically by the name of the author. In the event of multiple authors or an author's name was not stated, the article is listed by subject.

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BOX 58	Ribonucleic acid bacteriophage, 1989-1992
BOX 58	Rhodes, M. M., 1931-1954, 1961, 1966-1967, 1984, 1992 (2 folders)
BOX 59	Schell, Josef, 1977-1986
BOX 59-61	Speeches and Events, 1995-2007 The Speeches and Events File consists of speeches and talks given by Fedoroff throughout her career at Pennsylvania State University. The file contains informal talks as well as formal presentations made at professional conferences and meetings. The files include both typescripts and handwritten speeches as well as background material for Fedoroff's speeches. The Speeches and Events File complements other series in the collection, in particular the Digital File . Arranged chronologically by the date of the event.
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BOX 59	Feb.-Apr.
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BOX 60	Feb.-July (2 folders)
BOX 60	Aug. (2 folders)
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Speeches and Events, 1995-2007

Container	Contents
BOX 61	Sept.-Dec.
BOX 61	2001
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BOX 62-66	Subject File, 1973-2007 The Subject File documents Fedoroff's her involvement with businesses and science advisory boards to further the exploration of plant genetics. The series also includes correspondence and other materials related to the doctoral candidates and postdoctoral assistants she worked with in her laboratories starting in the late 1970s. Arranged alphabetically by subject or type of material.
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BOX 62	Consulting committees and professional societies
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BOX 62	Oncogene, Ltd., 2007
BOX 62	Mars Sample Hazard Protocol, Science Oversight and Review Committee, 2000
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BOX 62	National Research Council, 1995
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BOX 62	Washington Advisory Group, 2007 <i>See also Digital File, same heading</i>
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BOX 63	MacArthur Fellows Program nominations, 2006
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BOX 63	Photographs, Biological Sciences Advisory Committee, 1994-1997 (2 folders)
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Container	Contents
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BOX 65	P
BOX 65	R (3 folders)
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BOX 65	Paper file (8 folders)
BOX 66	Digital file In addition to paper materials, folder 5 included one (1) optical disk. Digital files copied from these media are described below. "Epidermal peel ROP2" PowerPoint, images and video, 2005 Digital ID: mss85426_060_148
BOX 66	V-W (4 folders)
BOX 66	Printed materials 1980, 1986
BOX 66	Research assistants, 1996-1997, 2002
BOX 66	Sabbatical, 2000 <i>See also Digital File, same heading</i>
DF	Digital File, 1989-2008 The Digital File contains much of the materials produced by Fedoroff from the 1990s to the 2000s, including correspondence with friends and colleagues. The majority of the Digital Files series focuses on her transposable elements research and her involvement at Pennsylvania State University when she became the Verne M. Willaman Professor of Life Sciences and Director of the Huck Institutes of the Life Sciences. When Fedoroff transitioned to Pennsylvania State University from the Carnegie Institute of Washington many of the research grants she was working on transferred with her. The Digital File series consists of laboratory research notes and documentation recording the methods and procedures used in the experiments. The collection includes a group of Hypermaize cards. Hypermaize is a derivative of Apple's Hypercard program used to store and analyze data gathered over generations of maize crosses. The Hypermaize stacks and images created using MacDraw require emulation to access. The Digital File series also documents the courses taught by Fedoroff and the administration of the Huck Institutes of the Life Sciences. Request files using the Digital ID number. A complete list of digital files in this collection can be found in Appendix A: File Directory Listings . Arranged alphabetically by subject or type of material. Correspondence Biosciences Information Service, 1993-1995 Digital ID: mss85579_042_069 Carnegie Institute of Washington, Washington, D.C., 1990-1995 Digital ID: mss85579_042_069 Digital ID: mss85579_042_076 Digital ID: mss85579_042_118

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- “*chx*-ozone” data analysis, 2003
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- Hypermaize stacks, 1990-1995
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- Lab protocols and methods, 1989-1995
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BOX 67-80

2022 Addition, 1971-2012

The 2022 Addition expands upon earlier material elsewhere in the collection, documenting Fedoroff's research and interest in plant genetics. The addition supplements publications authored by Fedoroff and includes edited drafts, correspondence, and images and graphs related to the publications. The addition also includes photographs and notes associated with research on transposons, known as jumping genes, in plants.

2022 Addition, 1971-2012

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Arranged in six groupings: Notes and notebooks, Speeches and events, Writings, Photographs, Subject file, and Digital file.

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- BOX 67** *Ac* DNA sequence data, 1982-1984, 1990-1993
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- BOX 67** *Argobacterium* strains, 1986-1987
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- BOX 67** DNA sequence data for *tnpC*, *tnpB*, and *tnpD*, 1989
- BOX 67** Enhancer sniffer - *Ac* element, 1989-1992
- BOX 68** Enhancer sniffer - *Ac* element, 1989-1992
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- BOX 69** Experiment ideas, 1989-1996, undated
- BOX 69** Mutants of maize descriptions, 1992
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- BOX 70** 1990, July
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- BOX 70** 1991, June
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- BOX 70** circa 1994
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Writings

Articles

- BOX 70 "About Maize Transposable Elements and Development," 1989
- DF "About Maize Transposable Elements and Development," 1988
Digital ID: mss85579_218_033
- BOX 70 "The *Arabidopsis* Double-Stranded RNA-Binding Protein *HYL1* Plays a Role in MicroRNA Mediated Gene Regulation," 2002
- BOX 70 "*Arabidopsis* Primary MicroRNA Processing Proteins *HYL1* and *DCL1* Define a Nuclear Body Distinct from Cajal Body," 2007
- DF "*Arabidopsis* Primary MicroRNA Processing Proteins *HYL1* and *DCL1* Define a Nuclear Body Distinct from Cajal Body," 2007
Digital ID: mss85579_218_009
Digital ID: mss85579_218_012
- BOX 70 "Biochemical and Molecular Technique in Maize Research," 1984-1985
- BOX 71 *Biographical Memoirs*, "Barbara McClintock," 1993-1994
- BOX 71 "Characterization and Mapping of *Ds-GUS-TDNA* Lines for Targeted Insertional Mutagenesis," 1995-1996
(3 folders)
- BOX 71 "Characterizing the Stress/Defense Transcriptome of *Arabidopsis*," 2002
- BOX 71 "A Collection of Sequenced and Mapped *Ds* Transposon Insertion Sites in *Arabidopsis thaliana*," 2002
- BOX 71 "Concerted Formation of Macromolecular Suppressor-Mutator Transposition Complexes," 1997-1998
(2 folders)
- BOX 71 "The Controlling Element *Ds* at the Shruken Locus in *Zea Mays*," 1983
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- BOX 72 "Controlling Elements in Maize," 1983
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- BOX 72 "Developmental Determination of *Spm* Expression," 1988
- DF "Developmental Determination of *Spm* Expression," circa 1988
Digital ID: mss85579_218_046
- BOX 72 "Developmental Genetics of High Organisms," 1985-1986
- BOX 72 "The Discovery of Transposable Elements," 1991-1998
- BOX 72 "Discovery of Transposition," 2001
- BOX 72 "DNA Methylation and Activity of the Maize *Spm* Transposable Elements," 1993-1994
- BOX 72 "The Dynamic Genome," 1991-1993
- BOX 73 "The Dynamic Genome," 1991-1993
(3 folders)
- BOX 73 *Encyclopedia of Genetics*, "Barbara McClintock," 2001
- BOX 73 "Epigenetic Mechanisms in the Regulation of the Maize *Spm* Transposon," 1998
- BOX 73 "Epigenetic Regulation of the Maize *Spm* Element: Novel Activation of a Methlated Promoter by *TnpA*," 1994
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- BOX 73 "Epigenetic Regulation of the Maize *Spm* Transposable Elements," 1995-1996
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BOX 74	"Ethnic for a Small Planet," 1990-1991
BOX 74	"Food for a Hungry World: We Must Find Ways to Increase Agricultural Productivity," 1997
BOX 74	"Genetic Ablation of Root Cap Cells in <i>Arabidopsis</i> ," 1999 (2 folders)
DF	"Genetic Ablation of Root Cap Cells in <i>Arabidopsis</i> ," 1999 Digital ID: mss85579_218_001
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BOX 74	"Genetic and Molecular Analysis of the <i>Spm-Dependent a-m2</i> Alleles of the Maize <i>a</i> Locus," 1987 Digital ID: mss85579_218_038
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BOX 74	"A Highly Sensitive Plant Hybrid Protein Assay System Based on the <i>Spm</i> Promotes and <i>TnpA</i> Protein for Detection and Analysis of Transcription Activation Domains," 1995-1996
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BOX 74	"I Am the Lorax . . . And I Weep for the Wrongheadedness of the EPA," 1987
DF	"I Am the Lorax . . . And I Weep for the Wrongheadedness of the EPA," 1987 Digital ID: mss85579_218_003
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DF	"International Symposium on Plant Transposable Elements," 1986-1987 Digital ID: mss85579_218_047
BOX 75	"Is the Suppressor-Mutator Elements Controlled by a Basic Developmental Regulatory Mechanisms?," 1988 (2 folders)
DF	"Is the Suppressor-Mutator Elements Controlled by a Basic Developmental Regulatory Mechanisms?," 1988 Digital ID: mss85579_218_034 Digital ID: mss85579_218_045
BOX 75	" <i>LRP1</i> , a Gene Expressed in Lateral and Adventitious Root Primordia of <i>Arabidopsis</i> ," 1995 (2 folders)
DF	" <i>LRP1</i> , a Gene Expressed in Lateral and Adventitious Root Primordia of <i>Arabidopsis</i> ," 1995 Digital ID: mss85579_218_002
BOX 75	<i>Maize Genetics Newsletter</i> , 1992-1996
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BOX 75	"Maize Transposable Elements in Development and Evolution," 1988-1989
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BOX 75	"Molecular Genetic Analysis of the Maize Suppressor-Mutator Element's Epigenetic Development Regulatory Mechanism," 1989
DF	"Molecular Genetic Analysis of the Maize Suppressor-Mutator Element's Epigenetic Development Regulatory Mechanism," 1989 Digital ID: mss85579_218_032
BOX 75	"Molecular Mechanisms in the Developmental Regulation of the Maize Suppressor-Mutator Transposable Element," 1988
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BOX 76	<i>Mutants of Maize</i> , second edition, 1997
BOX 76	"Mutations Epimutational, and Developmental Programming of the Maize Suppressor-Mutator Transposable Elements," 1989
DF	"Mutations Epimutational, and Developmental Programming of the Maize Suppressor-Mutator Transposable Elements," 1989 Digital ID: mss85579_218_044
BOX 76	Newspaper articles, 1987
BOX 76	"The Nucleotide Sequence of <i>Oocyte 5S</i> DNA in <i>Xenopus laevis</i> . I. The AT-rich spacer," 1976-1978
BOX 76	<i>Plants: Their Biology and Importance</i> , "Biographical Essay," 1992
BOX 76	"Plants and Population: Is There Time?," 1999
BOX 76	"The Recombinant DNA Controversy," 1985-1986
BOX 76	"Regulation of the Maize Suppressor Element," circa 1988
DF	"Regulation of the Maize Suppressor Element," circa 1988 Digital ID: mss85579_218_040
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BOX 76	"RNA-Binding Proteins in Plants: The Tip of the Iceberg," 2002
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DF	"Using Entropy Maximization to Infer Genetic Interaction Networks from Gene Expression Patterns," 2006 Digital ID: mss85579_218_007
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DF	Notes and notebooks
DF	Baculovirus Expression, 2006 Digital ID: mss85579_218_008
DF	Heterotrimeric <i>G</i> protein in <i>Arabidopsis</i> signaling in <i>UPR</i> -associated cell death, 2006-2007 Digital ID: mss85579_218_020 Digital ID: mss85579_218_021 Digital ID: mss85579_218_022
DF	Mechanism of <i>TnpA</i> -mediated DNA demethylation, 1992-1999 Digital ID: mss85579_218_004
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DF	Unknown draft manuscript, sections, 1987 Digital ID: mss85579_218_039
BOX OV 1-OV 5	Oversize, 2000-2005 Matted photographs of the National Science Board and a collection of maize seeds given to Nina V. Fedoroff by Barbara McClintock in the early 1980s. The seeds were originally received in seed packets with groups of seed packets bound together with a binder clip. The contents of individual seed packets were rehoused in small glass vials with groups of seed packets organized by a color chart on the back cover of the box. Arranged alphabetically by subject or type of material.
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Appendix A: File Directory Listings

The attached [.pdf file](#) lists the digital ID number, series, storage media format (e.g. 3.5-inch floppy disk, DVD, etc.), media label information, and a file directory listing for each storage media. The file directory listing includes the file names and paths, date and time stamps, and the number of bytes for each file.

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