

15/24/56

Liberal Arts and Sciences

Genetics and Development Department

Natural History Museum

Iltis Mendelania Collection, 1841-1984

Item 41: The pea flower [missing]

Item 47: Mendel's original exp. With pea: the difference in color of the unripe pod

Item 48: Mendel's original exp. With pea: Axial and terminal inflorescence [missing]

Item 49: Mendel's original exp. With pea: Tall x dwarf plants [missing]

Item 50: Mendel's seven monohybrid crossings: survey [missing]

Item 53: Mendel's backcross experiments proving his theory [missing]

Item 52: Explanation of Mendel's dihybrid crossing by his theory (Modern checker board method) (15-2)

UAR 44:

Gregor Mendel, oil portait by J.O. Flatter, London, Negative in Box 1

Box 1:

Mendel's birth place in Heinzendorf, Silesia [caption only]

The parents consent for Mendel to be priest, Photographic facsimile

Mendel's sisters and his brother-in-law, Photograph and caption

The Common Ancestors of Mendel and Mrs. Hugo Iltis

The convent hall of the monastery, Brunn Photograph, negative, and caption

Brunn, Spielberg, and Franzensberg, Photograph, negative, and caption

The members of the convent of the Augustines, Brunn 1862, Caption only. Fredericksburg 1950 checklist indicates "on exhibit."

The "Fuchsia Portrait", Photographs, negative, and caption

Mendel in 1847, Photograph and caption

Brunn Committee of Natural Science, 1862, Photograph and caption

The "Distorted" Photo of Mendel in 1867, Caption only. [Missing]

Mendel's experimental garden, Negative and caption

Carl Nageli, Photograph and caption

Nageli's letter of reply to Mendel's first letter, 1867, Photographic facsimile of a single page and caption

Mendel's Apiary Renovated, ca. 1940, Photograph, negative, and caption

Cage for bee crossing constructed by Mendel, photograph and caption

Mendel's observations of the sun spots, Photographic facsimile and caption

Mendel's letter of protest regarding the tax bill, Photographic facsimile, negative, and caption

Mendel's telescope, Photograph, negative, and caption

Mendel's microscope, Photograph and caption

Rudolph Jakob Camerarius 1665-1721, Photograph and caption

Cotton Mather, 1663-1728, Photograph and caption

Paul Dudley, 1675-1751, Photograph and caption

Thomas Andrew Knight, 1759-1838, Photograph and caption

Charles Naudin, 1815-1899, Photograph and caption

William Spillman, 1863-1931, Photograph, negative, and caption

Cotton Mather's letter to James Petiver, 1716, photostat presented to the Mendel Museum by Prof. Conway Zirkle of the University of Pennsylvania, December 22, 1939

Mendel's original experiment with the pea: Smooth x wrinkled, Caption and digital photograph taken 7 July 2005

The F2 hybrid [caption only]

Mendel's original exp. With pea: Yellow x green [caption only]

Mendel's original exp. With pea: Colored seed coat x white [caption only]

Mendel's Original Experiments with the Pea. Exhibit display board prepared by Hugo Iltis, ca. 1943. Discarded July 2005. Digital photograph taken 7 July 2005.

Mendel's original exp. With pea: dihybrids: yellow smooth x green wrinkled [caption only]

Checker board showing Mendel's theory and its proof by the back-cross experiments with the pea [caption only]

#### Box 2:

William Bateson, Photograph and caption

Charles Davenport, Photograph and caption

H. Nilsson-Ehle, Photograph and caption

Jean de Lamarck, Photograph and caption

Charles Darwin, Photograph and caption

Sir Francis Galton, Photograph and caption

Wilhelm L. Johannsen, Photograph

Gregory Mendel, "Experiments in Hybridisation," with an introductory note by William Bateson, 26 *Journal of the Royal Horticultural Society*, 1901

Gregor Mendel, "Resecherches sur des hybrides végétaux," translated by A. Chappellier, in unidentified journal pages 372-419

Translation into Russian, 1935

Gregor Mendel, "Bemerkungen zu den graphisch-tabellarischen Übersicht der meteorologischen erhaeltnisse von Brunn," 1 *Verhandlungen des naturforscheneden Vereines in Brünn*, 1862-1863

Gregor Mendel, "Über einige aus künstlicher Befruchtung gewonnenen Hieracium Bastarde," and "Meteorologische Beobachtungen aus Mähren und Schlesiens im Jahre 1869," 8 *Verhandlungen des naturforschenden Vereines in Brünn*, 1869-1870

Gregor Mendel "Ueber die Windhose am 13. October" 9 *Verhandlungen des naturforschenden Vereines in Brünn*

"Versuche über Pflanzen-Hybriden von Gregor Mendel," 4 *Verhandlungen des naturforschenden Vereines in Brünn*, 1865. Note: journal title page and first page of Mendel article only, bound into 23-24 *Transactions of the Kansas Academy of Science*, 1909-10, apparently for display purposes. Note: the ribbon copy of ca. 1950s typescript inventory of the collection and a handwritten list (see first folder in Box 1) describes item 168 as simply "'Versuche über Pflanzen-Hybriden' von Gregor Mendel" and carries felt-tip marginal marking suggesting the document was transferred to the Rare Book Room, but it is unclear whether the current Item 168 (*Transactions of the Kansas Academy of Science*) is what was transferred and later returned or whether it was used by the Natural History Museum as a surrogate.

Hugo Iltis, *Life of Mendel* [caption only]

One of Mendel's original notes given to Hugo Iltis by Father Dr. Clemens Janetschek, one of the closest of Mendel's friends in the monastery. Appears to be a list of page numbers. Original, negative and caption.

Letter of Prof. Herbert Adolphus Miller of Oberlin College to Hugo Iltis regarding provenance of photo in item 171, June 2, 1922

The "Deutsche Staats-Realschule"/German State Modern school/ Brünn in 1869 showing the building as it looked when Mendel was teaching there from 1854 to 1868, Photograph, negative, and caption

Original letter of August Weismann to Hugo Iltis, July 9, 1911

### Box 3:

Charles Darwin, original photo ca. 1878, presented by Hugo Iltis by Leonard Darwin ca. 1939-1940

Gregor Mendel, "Meteorologische Beobachtungen aus Mähren und Schlesiens im Jahre 1863," 2 *Verhandlungen des Naturforschenden Vereines in Brünn*, 1863-1864.

Gregor Mendel, "Meteorologische Beobachtungen aus Mähren und Schelesien im Jahre 1864," 3 *Verhandlungen des Naturforschenden Vereines in Brünn*, 1864-65

Gregor Mendel, "Meteorologische Beobachtungen aus Mähren und Schelesien im Jahre 1863," 5 *Verhandlungen des Naturforschenden Vereines in Brünn*, 1866-67

Vol. X of *Verhandlungen des Naturforschenden Vereines in Brunn* with "Table of Contents" of the volumes I to IX showing Gregor Mendel's contributions to the journal.

Vol. XI of *Verhandlungen des Naturforschenden Vereines in Brunn* for the year 1872: containing the request of the Academy of Sciences in Chicago for a second delivery of all the volumes of the preceding years published by the Brünn Society

Abraxas grossulata, gift from Prof. Darlington of the John Innes Horticultural Institution, 1951. Box of specimens of moths transferred to the Illinois natural History Survey, 30 June 2005. Transmittal letters and 2005 photograph only.

Book-plate of Carl Correns

*Genetics* Volume 35 (1950) "The Birth of Genetics," includes publication in English translation of Gregor Mendel's letter to Carl Nageli, 1866-1873 and articles by Hugo de Vries, C.G. Correns, and E. Tschermak on Mendel and genetics

Harrison Shull to Donald Hoffmeister and John Laughnan, accession correspondence for Mendel Clock, 1961. Clock is on display in Universit Archives Reference Room, (Room 19 Library)

Metal engraving late, Thomas Hunt Morgan, *Genetics*, January 1947

Mary Washington College Mendel Museum Guest Book, 1948-1956

*Genetics* Editorial Board, Galton and Mendel Memorial fund prospectus and certificate

Gregor Mendel Medallion, from Museum Moraviae, Brünn, to Museum of Natural History

#### Box 4:

Natural History Museum Mendeliana Collection Resource Files

Photocopies of Hugo Iltis correspondence and Iltis transcriptions of Mendel documents, 1841, 1859, 1883-84, 1905-06, 1909, 1911-12, 1922-24, 1930-31, 1935, 1938

Hugo DeVries to Charles Zeleny, February 28, 1928

Lecture and Symposium Announcements, 1965, 1969, 1970

Photographs of University of Illinois Natural History Museum Mendel Displays  
(negative and contact sheets), ca. 1974

Reprints and Articles Concerning Mendel,

General, 1956, 1973-74

*Folia Facultatis Scientiarum Naturalium Universitatis Purkynianae  
Brunensis*, XIV (1973), XV (1974)

G. Czihak, *Johann Gregor Mendel (1822-1884): Dokumentierte Biographie  
und Katalog zur Gedächtnisausstellung anlässlich des hundersten  
Todesstages mit Facsimile seines Hauptwerkes: "Versuche über  
Pflanzenhybriden*, (Salzburg, 1984)

Donald F. Hoffmeister and Harry C. Hendriksen, "The Collection of  
Mendeliana at the University of Illinois at Urbana-Champaign," 44 *Acta Musei  
Moraviae* (1979) *Folia Mendeliana* 14, pp. 281-284

Vitezslav Orel, 1965, 1984

Vitezslav Orel and Anna Matalova, eds., *Gregor Mendel and the Foundation  
of Genetics: Proceedings of the Symposium The Past Present and Future of  
Genetics Kuparovicem Czechoslovakia, August 26-28, 1982*, (Brünn:  
Mendelianum of the Moravian Museum, 1983).

Josef Sajner, *Gregorii Mendel Autobiographia Iuvenilis*, (Brünn: Universitas  
Purkynian Brunensis, 1972), facsimile of manuscript and typeset  
transcription of Mendel's April 17, 1850 autobiographical statement for  
teaching license.

George Harrison Shull, 1912, 1951

*Folia Mendeliana Supplementum ad Acta Musei Moraviae, Scientiae Naturalist*,  
*Folia* issues, 1-13, 15-21, 1966-1986

Box 5:

Pedigree of Johann Gregor Mendel, Display Board, Hugo Iltis and Jo Anne Campbell

Gregor Mendel's home country, Display Board

The monastery and the church in Altbrunn, Photograph, negative, and caption

Autobiography, Photograph of third page

The “handsome” portrait, Photographs and negative

Mendel and the faculty of the Realschule, Photograph, copy of “original” see 171 for “original” print

The small prelate portrait, 1882, Photograph and negative

The great prelate portrait, Photographs and negative

First page of Mendel’s manuscript of “Versuce uber Pflanzen-Hybriden”, Photograph

Mendel’s apiary, Photograph

The Mendel Memorial in Brünn, Photograph

Prof. Baur, Berlin, speaking on the occasion of the International Gregor Mendel Centennial in Brünn, Sept. 1922, Photographs and negative

Fertilization. Round-worm *Ascaris* (Th. Boveri), Display Board

Mitosis. Consecutive stages of the division of a cell and its nucleus in the root of the onion, Display Board

Mitosis in Animals and Plants, Display Board

The Increase in the Acreage Planted with Hybrid Corn in the USA During the Period of 1940 to 1946, Display Board, Hugo Iltis and Jo Alys Downs

A Gene Mutation Forms a New Species, fly *Amaloptereix*, *Maritima* Eaton, Display Board by Hugo Iltis and Jo Alys Downs, 1949

Bud Mutation II, Display Board by Hugo Iltis and Margaret Shropshire, 1948

Graft-hubrids II, Display Board by Hugo Iltis and Jo Alys Downs

Mendel confirms the receipt of the questions for his examination in geology, 1850, Original Mendel manuscript and negative of manuscript

Mendel acknowledges the receipt of the questions for his examination in physics, 1850, Original Mendel manuscript and negative of manuscript

Record about Mendel’s oral examination in physics, 1850, Original Mendel manuscript and negative of manuscript

Mendel orders several varieties of pear trees, 1880, Original Mendel manuscript and photographs and negative of manuscript

Order for Pear trees, "Sheet 2", Original Mendel manuscript and negative of manuscript

Original drawing Mendel's for a trellis, Original Mendel manuscript and photograph and negative of manuscript

Original photo: Mendel among the faculty of the Brünn Realschule, 1863. From the monastery. Original Mendel image and photographic copy and negative of image

*Versuche über Pflanze-Hybriden*, facsimile of original Mendel's manuscript, 2012, (17 leaves), donated October 30, 2012 by Michaela Jarkovska, Mendelovo Muzeum of Masrykova Univerzita, Brno, Czech Republic

#### Box 6:

University of Illinois Natural History Museum

Mendel Collection Display Boards- matted facsimile and photographic copies of photographs and original Mendel Documents

#### Box 7:

Mendel's autobiography, Photograph of manuscript of last page

Professor Portrait ("life size"), Retouched photograph

Fundamentals of Mendelism, Display Board, Hugo Iltis and Wilma Johnston, 1946

The Numerical Ratio and the Various Kinds of Gametes, Zygotes, and Individuals in the F<sub>2</sub> Generation of Mendelian Crossing Display Board, Hugo Iltis and Ruth Snell, 1946

Mendel's Pea Crossings I: Survey and Discussion Display Board, Hugo Iltis, and Margery Vreins, 1946

The Reasons for Mendel's success, Display Board, Hugo Iltis and Jo Hutton, 1947

"The New World Honors Mendel" Hand lettered and painted scroll presented to the American Genetics Society by the scientists of the New World at the Golden Jubilee meetings of the Genetics Society of America at Columbus, Ohio, September 12, 1950

[Caption in Box 1]



Janssen's Chiasmatype Hypothesis, Display Board, Hugo Iltis and Mary Ann Hellberg, 1951

Cross-over Frequency and Gene Distance: The Mapping of the Genes, Display Board, Hugo Iltis and Mary Ann Hellberg, 1951

Sex Cells and Chromosomes of Man: Sex determination by sex chromosomes, Display Board, Hugo Iltis and Margery Vriens, 1947

Boy or girl? The solved riddle of sex determination, Display Board, Hugo Iltis and Ruth Snel, 1947

Th. R. Malthus and Darwin's Selection Theory, Display Board, Hugo Iltis and Jo Anne Campbell, 1952

The foundation of Biometry, Display Board, Hugo Iltis and Jo Anne Campbell, 1950

Certificate about Mendel's examination in geology by Professor Rudolph Kner in 1850 [original manuscript and photographic negatives and prints]

Director Auspitz' proposal regarding the appointment of Gregor Mendel as teacher of science at the "Realschule" in Brünn [original manuscript and photographic negatives and prints]

Poster *Johann Gregor Mendel, 1822-1884 Leben-Werk-Wirkung, Gedächtnisaustellung Anlässucg der 100. Wiederkehr Seines Todestages*, Salzburg, Vienna, Graz, Klagenfurt, Innsbruck, 1984

#### Box 8:

Gregor Mendel Plaque by Theodor Charlemont of Vienna, 1910 Framed plaster (?) plaque

#### OS (1) (12-10)

Multiple birth: Quadruplets and Quintuplets

Inheritance of Missing Incisors

#### OS (2) (15-2)

Explanation of Mendel's dihybrid crossing by his theory (Modern checker board method)

Mendel's pea crossing II

Mendel Memorial in Brünn, oversize photograph

Interaction of genes. Cuénot's mice crossings (mouse pelts), Exhibit display board prepared by Hugo Iltis, 1946

Four ways hybrid chickens are produced by Hy Line Poultry Farms

The Ptolemies, Kings of Egypt

The Limits of Eugenics, display board with hand colored cartoon drawings by Theodor Heine

Inheritance of political talent: The Roosevelt Family

Two American scientists who won the Nobel Prize for their work in genetics: Thomas H. Morgan, Herman J. Muller