

UA1990.10

Wilma Spurrier Papers

Dates: 1953-1987

Creator: Spurrier, Wilma (1928-1989)

Extent: 7.0 linear feet

Level of description: Folder

Processor & date: Melinda Leonard, March 25, 2011; updated by K. Young, December 2013

Administration Information

Restrictions: Some restrictions apply. Please consult archivist for information.

Copyright: Consult the repository for information.

Citation: Loyola University Chicago. Archives 7 Special Collections. Wilma Spurrier Papers, 1953-1987. Box #, folder #.

Provenance: Jill Gordey, the supervisor of the Microsurgery Lab in the Department of Neurosurgery at the Loyola University Medical Center, transferred the papers on March 2, 1990.

Separations: 6.0 linear feet of extraneous material and duplicates were discarded.

See Also:

Biographical Sketch

Wilma Spurrier was born in Denver, Colorado, on December 26, 1928. She studied Chemistry at Elmhurst College in Elmhurst, Illinois, from 1946 to 1948 before graduating in 1950 from an eighteen-month course in Medical Technology at the School of Medical Technology at Mount Sinai Hospital in Chicago. She became a Registered Medical Technologist in 1950, after passing the National Board Examination given by the American Society of Clinical Pathologists (ASCP).

During the 1950s, Spurrier worked in the hematology laboratories of Mount Sinai and the Hektoen Institute. From 1961 to 1969, she worked on the chemical characterization of burn toxins in the Department of Preventive Medicine at the University of Illinois Medical School. In 1967, Spurrier started part-time work on hibernation research with Dr. A.R. Dawe in the Department of Physiology at Loyola University Chicago's Stritch School of Medicine. In 1969, she became a full-time research associate and conducted independent experiments involving natural mammalian hibernation. In 1978, she resigned from the Department of Physiology and accepted a position in the Department of Neurosurgery.

With Dr. Dawe, Spurrier pioneered research in hibernation, isolating and naming the "hibernation induction trigger," or unknown blood substance that causes hibernation. Throughout her career, she published or collaborated on over eighty papers.

Wilma Spurrier passed away on February 5, 1989. A memorial service was held in her honor at the Loyola University Medical Center chapel that April.

Scope and Content

The Wilma Spurrier papers consist of 7.0 linear feet spanning the years 1953 to 1987 and include academic papers; acetate film; certificates; correspondence; graphs; journals; manuscripts; negatives; notes; photographs; published articles; reports; research

notebooks; and slides. Subjects covered include burn toxins; cardiology; ground squirrels; groundhogs (*Marmota monax*); hematology; hibernation induction trigger; immunology; mammalian hibernation; physiology; and thermal injury of the skin.

Series

Series 1: Biographical, 1969-1982, Box 1

This series consists of articles; a certificate; correspondence; curriculum vitas; and a list of publications. Subjects covered include Spurrier's career, publications, and colleagues.

Series 2: Research, 1967-1978, Boxes 1-2, 12

This series consists of data; graphs; loose notes; notebooks; and photographs. Subjects covered include hibernation within groundhogs and ground squirrels, from the hibernation state to arousal and rewarming.

Series 3: Progress Reports, 1962-1964, c. 1974-1976, Box 2

This series consists of annual progress reports and grant summary progress reports. Subjects covered include cardiology; circulation; hibernation induction trigger; mammalian hibernation; myocardial metabolism and ventricular function; and thermal injury of the skin.

Series 4: Presentations, 1973-1978, No Date, Box 2-3

This series consists of abstracts; correspondence; drafts; notes; and invoices. Subjects covered include catecholamine; cholinergic innervations; heart hibernation; hibernation induction trigger; immunology; and mammalian hibernation.

Series 5: Manuscripts, No Date, Box 3

This series consists of handwritten and typed drafts of articles, papers, and speeches. Subjects include burns to human skin; groundhogs; hematology; hibernation induction trigger; immunochemistry; immunology; immunopathology; and mammalian hibernation.

Series 6: Published Articles, 1953-1987, No Date, Boxes 3-4

This series consists of published articles authored or co-authored by Spurrier. Subjects covered include hematology; hibernation; hibernation induction trigger; hibernators; leukemia; marmots; and toxins.

Series 7: Works by Other Scholars, 1956-1986, Box 4

This series consists of bibliographies; dissertations; and published articles. Subjects covered include animal research; experimentation; ground squirrels; groundhogs; the human heart; mammalian hibernation; nerves; and physiology.

Series 8: Books & Journals, 1962-1976, No Date, Box 4-5

This series consists of bibliographies; books; and journals. Subjects covered include burns; hematology; mammalian hibernation; and physiology.

Series 9: Photographs, c. 1970s, No Date, Boxes 6-9, 12

This series consists of drawings and photographs. Subjects covered include birds; cells; flowers; ground squirrels; groundhogs; heart catecholamine fluorescence; hematology; mammalian hibernation.

Series 10: Slides, 1969-1971, 1976, No Date, Boxes 9-10

This series consists of slides. Subjects covered include Acetyl cholinesterase; birds; cells; flowers; graphs; heart histology; hematology; mammalian hibernation; nerves; and scenics.

Series 11: Negatives, 1977-1978, No Date, Box 10

This series consists of negatives. Subjects covered include Acetyl cholinesterase; cells; graphs; ground squirrels; groundhogs; hematology; and mammalian hibernation.

Series 12: Film, No Date, Box 11

This series consists of labeled and unlabeled acetate film. Subjects covered include ground squirrels; groundhogs; Loyola titles; mammalian hibernation; summer scenes; and winter scenes.

Subjects:

Animal Research
Groundhogs
Hematology
Hibernation
Hibernation Induction Trigger
Mammalian hibernation
Marmota monax
Medical research
Neurosurgery, Department of
Physiology
Spurrier, Wilma
Squirrels, Ground
Toxins
Zoology

Accession No.: UA1990.10

Creator: Spurrier, Wilma (1928-1989)

Box	Folder	Title	Dates
Series 1: Biographical, 1969-1982			
1	1	Articles/Press regarding Research	1969-1982
1	2	Medical Technologist Certification	1970
1	3	Correspondence	1971-1978
1	4	Curriculum Vitae	1978
1	5	Dawe, Albert R., Ph.D., List of Publications	1971
1	6	Groundhog Cards (unsigned)	
Series 2: Research, 1967-1978, n.d.			
1	7	Research Notebook: "observations on the Occurrence of 'Crystal-Like' Particles in the Blood & Tissues of Active & Hibernating Ground Squirrels" - Dawe & Spurrier	1967
1	8	Research Notebook: Blood Study	1967-1968
1	9	Research Notebook: "Effects of Hibernation & Season on Formed Elements in the Blood of the 13-lined Ground Squirrel" - Dawe	1967-1968
2	1	Research Notebook: Hibernation in Ground Squirrels	1972
2	2	Research Notebook: Rewarming - Hibernation Ground Squirrels, Feb-March	1977
2	3	Ground Squirrels Arousing from hibernation - Data, Graphs, & Pictures	1970
2	4	Research Notebook - Vol. II: Observations on the Blood of the Ground Squirrel	No Date
2	5	Woodchuck Mean Food Consumption Graphs	No Date
2	6	Handwritten Notes	No Date
12	1	Present Status: Hibernation Project sections A to G	No Date
12	2	Present Status: Hibernation Project sections H to Animals	No Date
Series 3: Progress Reports, 1962-1964, c. 1974-1976			
2	7	Annual Progress Report: Thermal Injury of the Skin	1962-1963
2	8	Addendum to Annual Progress Report: Injury of the Skin	1963-1964
2	9	Grant HL 08682-12 Summary Progress Reports	c. 1974
Series 4: Presentations, 1973-1979, No Date			
2	10	Presentation Abstracts	1973-1977, No Date
2	11	Hibernation Trigger Video Requests & Invoices	1977-1978
2	12	Script Drafts for Heart hibernation Film & Slide Presentation	No Date
3	1	Immunology Seminar Notes	No Date

Series 5: Manuscripts, No Date			
3	2	Manuscripts, A-H	No Date
3	3	Manuscripts, I-W	No Date
3	4	Immunology, Immunopatholgy, & Immunochemistry Manuscripts	No Date
3	5	Marmot Paper Manuscripts	No Date
Series 6: Published Articles, 1953-1987, No Date			
3	6	Blood Articles	1953-1955
3	7	"Studies in Leukemia" Articles	1955-1956
3	8	Toxin Articles	1959-1962
3	9	"Several Blood & Circulatory Changes in the Hibernation of the 12-Lined Ground Squirrel"	1972-1973
3	10	Hibernation Trigger Articles	1972-1987
3	11	"Contractility of the In Situ Marmot Ventricle"	1973-1974
3	12	"Summer Hibernation of Infant 13-Lined Ground Squirrels"	1974
3	13	"Effects on Cardiac Tissue of Serum Derivatives from hibernators"	1975
3	14	"Induction of Summer Hibernation in the 13-Lined Ground Squirrel Shown by Comparative Serum Transfers from Arctic Mammals"	1976
3	15	"Electrical & Mechanical Sustained Automaticity of the Isolated Heart of the Ground Squirrel: Both Circannually & Arousing from Hibernation"	1977
3	16	"A Seasonal Study of Pinealocytes in the 13-Lined Ground Squirrel"	1980
4	1	"Opioids & Hibernation. II. Effects of Kappa Opioid U69593 on Induction of Hibernation by "Hibernation Induction Trigger"	1987
4	2	"Further Studies on Opioids & Hibernation...Selectively Induced in Summer-Active Ground Squirrels"	1988
Series 7: Works by Other Scholars, 1956-1986, No Date			
4	3	Articles by A.R. Dawe (Spurrier's Supervisor)	1959, 1973
4	4	Articles by LUMC/Stritch Researchers	1970-1981, No Date
4	5	Articles by Non-LUC Researchers & Scholars	1956-1978
4	6	Articles by Non-LUC Researchers & Scholars	1978-1986, No Date
4	7	"Physiology &: Mammalian Hibernation" by Barbara Landau, Ph.D. Thesis - U of WI	1956
4	8	"Hypothalamic & Whole brain Monoamine Levels in Bats" by Edward Gregory Shaskan - Dissertation, U of AZ	1969
4	9	Bibliographies	1970-1974
Series 8: Books & Journals, 1962-1976, No Date			
4	10	<u>Annales Academiæ Scientiarum Fennicæ, Mamalian</u>	1962

		<u>Hibernation</u>	
5	1	<u>Comparative Physiology of Temperature Regulation</u>	1962
5	2	"Early Treatment of Severe Burns," <i>Annals of the New York Academy of Sciences</i> , Vol. 150, Art. 3	1968
5	3	<u>Natural mammalian Hibernation: A Bibliography</u>	1964
5	4	The Physiologist, Vol. 19, No. 3	1976
5	5	"Formulation of a Modern Blood Bank Reagent"	No Date
		Series 9: Photographs, c. 1970s, No Date	
6	1	Active, Arousal, & Hibernation Slides (labeled)	No Date
6	2	Arousal, Hibernation, & Diffusion in the Heart, Vessels, & S/F Cells (Prints of Slides)	No Date
6	3	Arousing - Photographs & Negatives	No Date
6	4	Birds - Prints & Negatives	No Date
6	5	Blood/Tissue Cells - Photographs & Negatives	No Date
6	6	Cells	No Date
6	7	Cells	No Date
6	8	Cells	No Date
6	9	Cells	1977, No Date
6	10	Cells - Photographs & Negatives (Labeled)	No Date
6	11	Cells - Photographs & Negatives (Labeled)	No Date
6	12	Cells: 4A 10-11 B Printed May 11	1977
7	1	Cells: 8-6 (& 6-18)	1977
7	2	Cells: 8-12 5 atria 4-21 & 1-4(?) Printed May 11	1977
7	3	Cells: 8-12 (VLCN)	1977
7	4	Cells: 9-18 Heart March 1	1977
7	5	Cells: B 0,2,11,12,13,15,18,21,23,26	No Date
7	6	Cells: C 6,8,11,0A,2,3,17,19,20,21,18	No Date
7	7	Cells: F, July 13	1977
7	8	"Christian Radich" Ship	No Date
7	9	Drawings of Slides	No Date
7	10	Effluent Pictures & Chart	No Date
7	11	Electron Microscope Scans - HIB II-3/R-325, H, RV, C ₂ LA	No Date
7	12	Electron Microscopy Laboratory (Dept. of Pathology) - Case H ₂ LA, H ₂ RA, H ₂ RV	No Date
7	13	Ground Squirrels	No Date
7	14	Groundhogs - Adult & Young	No Date
7	15	Groundhogs - Hibernating & Arousal	No Date
7	16	Groundhogs - X-rays	No Date
7	17	Group Photograph - in Canada?	No Date
7	18	Heart - Photograph & Negatives	No Date
7	19	Heart Catecholamine Fluorescence (1 of 2)	No Date
7	20	Heart Catecholamine Fluorescence (2 of 2)	No Date
7	21	Heart Catecholamine Fluorescence (1 of 2)	No Date
8	1	Heart Catecholamine Fluorescence (2 of 2)	No Date
8	2	Heart Catecholamine Fluorescence (1 of 2)	No Date

8	3	Heart Catecholamine Fluorescence (2 of 2)	No Date
8	4	Hibernation Graphs	No Date
8	5	Kidney	No Date
8	6	L-Dopa	No Date
8	7	Laboratory Prints - Some with Case Numbers	No Date
8	8	Pigs	No Date
8	9	Reichman, Dr. O.H. - Groundhogs & graphs	No Date
8	10	Scans of Microscope Slides	No Date
9	1	Water Lilies	No Date
9	2	Young Girls in the Lab	c. 1970s
12	3	Acetylcholinesterase Stain Prints	No Date
12	4	VCLN Nerve Prints	No Date
		Series 10: Slides, 1969-1971, 1976, No Date	
9	3	Acetyl cholinesterase	No Date
9	4	ACHE Blood & Tissue Samples	No Date
9	5	ACHE - Wilma Spurrier Ache Box 2	No Date
9	6	Birds, Flowers, & Scenic's	No Date
9	7	Blood Cells & Tissue Samples (Labeled)	No Date
9	8	Blood & Tissue Samples (numbered)	No Date
9	9	Cells, Nerves, & Vessels	No Date
10	1	F1 & ACTE: A.V. Mode	No Date
10	2	Graphs	1969-1971, No Date
10	3	Heart Histology	1976
10	4	Heart Histology	No Date
		Series 11: Negatives, 1977-1978, No Date	
10	5	Acetyl cholinesterase	No Date
10	6	B & W negatives made from color slides for Wilma	No Date
10	7	Blood/Tissue Cells	1977-1978
10	8	Blood/Tissue Cells	No Date
10	9	Blood/Tissue Cells	No Date
10	10	Graphs	No Date
10	11	Ground Squirrels	No Date
10	12	Groundhogs	No Date
10	13	Induction of Summer Hibernation in 13-Lined Ground Squirrels	No Date
10	14	People in the Laboratory	No Date
		Series 12: Film, No Date	
11		3 Beaker Hearts	No Date
11		5 min. Hibernating Infant	No Date
11		Adult Hibernation and Arousal Short	No Date
11		APS Meeting, Heart Hibernation, Cold Room Dialysis	No Date
11		Baby Ground Squirrels	No Date

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11		Freezing #13, Injection Microscope	No Date
11		Heart in Module (in "Snow Scenes" canister)	No Date
11		Hibernation Films. Squirrels _ Theory. Original ECO. Removing Blood from Freezer	No Date
11		Hibernation - Loyola University Med Center, L #4529	No Date
11		Hibernation, Theory - Outdoor Squirrel Frozen Specimen	No Date
11		Hibernating Woodchuck & in Cage (in "Snow Scenes" canister)	No Date
11		Polygraph Records	No Date
11		Reel 11. Hibernating Ground Squirrels #2. 3 Beaker Check	No Date
11		Summer Scenes, hibernation Ground Squirrels #1, Active Woodchucks	No Date
11		Small Cold Room, Polygraph, Electrical Mod.	No Date
11		T. E. Loyola Titles Background Original	No Date
11		Winter Scenes	No Date