

UA1990.10

Wilma Spurrier Papers

Dates: 1953-1987

Creator: Spurrier, Wilma (1928-1989)

Extent: 6.5 linear feet

Level of description: Folder

Processor & date: Melinda Leonard, March 25, 2011

Administration Information

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

Copyright: Consult the repository for information.

Citation: Loyola University Chicago. Archives and Special Collections. Wilma Spurrier Papers. 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 consists of 6.0 linear feet spanning the years 1953 to 1987 and includes 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

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, n.d., 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, n.d., 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, n.d., 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, n.d., 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, n.d., Boxes 6-9

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, n.d., 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, n.d., Box 10

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

Series 12: Film, n.d., 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	n.d.
2	5	Woodchuck Mean Food Consumption Graphs	n.d.
2	6	Handwritten Notes	n.d.
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, n.d.			
2	10	Presentation Abstracts	1973-1977, n.d.
2	11	Hibernation Trigger Video Requests & Invoices	1977-1978
2	12	Script Drafts for Heart hibernation Film & Slide Presentation	n.d.
3	1	Immunology Seminar Notes	n.d.
Series 5: Manuscripts, n.d.			
3	2	Manuscripts, A-H	n.d.
3	3	Manuscripts, I-W	n.d.

3	4	Immunology, Immunopatholgy, & Immunochemistry Manuscripts	n.d
3	5	Marmot Paper Manuscripts	n.d
		Series 6: Published Articles, 1953-1987, n.d.	
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, n.d.	
4	3	Articles by A.R. Dawe (Spurrier's Supervisor)	1959, 1973
4	4	Articles by LUMC/Stritch Researchers	1970-1981, n.d.
4	5	Articles by Non-LUC Researchers & Scholars	1956-1978
4	6	Articles by Non-LUC Researchers & Scholars	1978-1986, n.d.
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, n.d.	
4	10	<u>Annales Academiae Scientiarum Fennicae, Mamalian Hibernation</u>	1962
5	1	<u>Comparative Physiology of Temperature Regulation</u>	1962
5	2	"Early Treatment of Severe Burns," <i>Annals of the New York</i>	1968

		<i>Academy of Sciences</i> , Vol. 150, Art. 3	
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"	n.d.
		Series 9: Photographs, c. 1970s, n.d.	
6	1	Active, Arousal, & Hibernation Slides (labeled)	n.d.
6	2	Arousal, Hibernation, & Diffusion in the Heart, Vessels, & S/F Cells (Prints of Slides)	n.d.
6	3	Arousing - Photographs & Negatives	n.d.
6	4	Birds - Prints & Negatives	n.d.
6	5	Blood/Tissue Cells - Photographs & Negatives	n.d.
6	6	Cells	n.d.
6	7	Cells	n.d.
6	8	Cells	n.d.
6	9	Cells	1977, n.d.
6	10	Cells - Photographs & Negatives (Labeled)	n.d.
6	11	Cells - Photographs & Negatives (Labeled)	n.d.
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	n.d.
7	6	Cells: C 6,8,11,0A,2,3,17,19,20,21,18	n.d.
7	7	Cells: F, July 13	1977
7	8	"Christian Radich" Ship	n.d.
7	9	Drawings of Slides	n.d.
7	10	Effluent Pictures & Chart	n.d.
7	11	Electron Microscope Scans - HIB II-3/R-325, H, RV, C ₂ LA	n.d.
7	12	Electron Microscopy Laboratory (Dept. of Pathology) - Case H ₂ LA, H ₂ RA, H ₂ RV	n.d.
7	13	Ground Squirrels	n.d.
7	14	Groundhogs - Adult & Young	n.d.
7	15	Groundhogs - Hibernating & Arousal	n.d.
7	16	Groundhogs - X-rays	n.d.
7	17	Group Photograph - in Canada?	n.d.
7	18	Heart - Photograph & Negatives	n.d.
7	19	Heart Catecholamine Fluorescence (1 of 2)	n.d.
7	20	Heart Catecholamine Fluorescence (2 of 2)	n.d.
7	21	Heart Catecholamine Fluorescence (1 of 2)	n.d.
8	1	Heart Catecholamine Fluorescence (2 of 2)	n.d.
8	2	Heart Catecholamine Fluorescence (1 of 2)	n.d.
8	3	Heart Catecholamine Fluorescence (2 of 2)	n.d.
8	4	Hibernation Graphs	n.d.
8	5	Kidney	n.d.

8	6	L-Dopa	n.d.
8	7	Laboratory Prints - Some with Case Numbers	n.d.
8	8	Pigs	n.d.
8	9	Reichman, Dr. O.H. - Groundhogs & graphs	n.d.
8	10	Scans of Microscope Slides	n.d.
9	1	Water Lilies	n.d.
9	2	Young Girls in the Lab	c. 1970s
		Series 10: Slides, 1969-1971, 1976, n.d.	
9	3	Acetyl cholinesterase	n.d.
9	4	ACHE Blood & Tissue Samples	n.d.
9	5	ACHE - Wilma Spurrier Ache Box 2	n.d.
9	6	Birds, Flowers, & Scenic's	n.d.
9	7	Blood Cells & Tissue Samples (Labeled)	n.d.
9	8	Blood & Tissue Samples (numbered)	n.d.
9	9	Cells, Nerves, & Vessels	n.d.
10	1	F1 & ACTE: A.V. Mode	n.d.
10	2	Graphs	1969-1971, n.d.
10	3	Heart Histology	1976
10	4	Heart Histology	n.d.
		Series 11: Negatives, 1977-1978, n.d.	
10	5	Acetyl cholinesterase	n.d.
10	6	B & W negatives made from color slides for Wilma	n.d.
10	7	Blood/Tissue Cells	1977-1978
10	8	Blood/Tissue Cells	n.d.
10	9	Blood/Tissue Cells	n.d.
10	10	Graphs	n.d.
10	11	Ground Squirrels	n.d.
10	12	Groundhogs	n.d.
10	13	Induction of Summer Hibernation in 13-Lined Ground Squirrels	n.d.
10	14	People in the Laboratory	n.d.
		Series 12: Film, n.d.	
11		3 Beaker Hearts	n.d.
11		5 min. Hibernating Infant	n.d.
11		Adult Hibernation and Arousal Short	n.d.
11		APS Meeting, Heart Hibernation, Cold Room Dialysis	n.d.
11		Baby Ground Squirrels	n.d.
11		Freezing #13, Injection Microscope	n.d.
11		Heart in Module (in "Snow Scenes" canister)	n.d.
11		Hibernation Films. Squirrels _ Theory. Original ECO. Removing Blood from Freezer	n.d.
11		Hibernation - Loyola University Med Center, L #4529	
11		Hibernation, Theory - Outdoor Squirrel Frozen Specimen	n.d.

11		Hibernating Woodchuck & in Cage (in "Snow Scenes" canister)	n.d.
11		Polygraph Records	n.d.
11		Reel 11. Hibernating Ground Squirrels #2. 3 Beaker Check	n.d.
11		Summer Scenes, hibernation Ground Squirrels #1, Active Woodchucks	n.d.
11		Small Cold Room, Polygraph, Electrical Mod.	n.d.
11		T. E. Loyola Titles Background Original	n.d.
11		Winter Scenes	n.d.