

**UNIVERSITY OF TORONTO ARCHIVES**

**Arthur M. Zimmerman Personal Records**

**B2000-0011**

**Prepared by: Marnee Gamble  
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**Biographical Note**

Dr. Arthur Zimmerman, a renowned cell biologist, first came to the University of Toronto's Department of Zoology in 1964 where he accepted an appointment of Professor. Previous to this, he had received his undergraduate and graduate degrees from New York University and had held an Associate Professorship in the Department of Pharmacology at the State University of New York. Dr. Zimmerman retired in 1999 and throughout his lengthy service to the University held many administrative positions including Graduate Secretary (1970-1975) and Associate Chairman (1975-1978) in the Department of Zoology, Associate Director of the School of Graduate Studies (1978-1981) and Acting Director of the Institute of Immunology (1980-81).

Dr. Zimmerman has also shown leadership within his profession holding several appointments in professional associations and as editor of several journals. From early in his career, he has been an active member of the Bermuda Biological Station and the Marine Biological Laboratories at Woods Hole, Massachusetts. He was president or director of several associations including Ontario Society of Biologists (1968), Canadian Society for Cell Biology (1970-71, 1976-77), International Cell Cycle Society (1986-88) and International Federation for Cell Biology (1996-2000). He also acted as Treasurer for the American Society of Cell Biology (1974-1980) and was Chair of their Publications Committee for their Methods in Cell Biology Series. He was co-president and founding member of the International Group on High Pressure Biology. His editorial activities include: consulting editor for Cytobios (1969 -), Microbios (1971 -), Senior Editor for Marcell Dekker Inc. (1974-1978), Academic Press Cell Biology Series (1978 - 1996), Associate Editor for Canadian Journal of Biochemistry and Cell Biology (1980-84), Editor for Experimental Cell Research (1983-1992), Biochemistry and Cell Biology (1984-1993) and Western Hemisphere, Cell Biology International Reports (1985- present).

By far, Dr. Zimmerman's most important contribution has been his research in the field of cellular biology and physiology for which he is internationally recognized. He has contributed much to the understanding of the cell cycle, the mechanism of cell division and has done pioneering work on the effects of hydrostatic pressure and drugs on various cellular processes. He has authored over 100 research and review articles and chapters in books. He has been editor of eight books and presented over 150 papers and lectures at meetings of professional associations and seminar groups. His research has been supported by numerous grants from the National Research Council of Canada, the Natural Sciences and Engineering Research Council and the Medical Research Council. As a teacher and mentor, he has supervised 21 doctorate students, many of whom are themselves holding influential positions in academic institutions and industry. His role as consultant to the U.S. National Institute on Drug Abuse (1975-1987) and as a witness to the U.S. Senate Judiciary Subcommittee on Internal Security (1974, 1980) recognizes that his expertise transcends his own scientific community.

**Scope and Content**

1956 – 1997                      3.3 m                      textual ; graphic

The records that make up the Arthur M. Zimmerman fonds document his professional activities and research endeavours from the 1960s to the present. They are rich in correspondence and manuscript drafts of articles and seminars that document the collaborative research efforts among Zimmerman and his colleagues. The correspondence files are especially insightful on Zimmerman's relationship with his students both while they were under his supervision and later in their careers. Series of professional correspondence, recommendations, reviews and editorial positions give evidence to Zimmerman's role as an expert whose knowledge and opinions were sought by his peers. Finally, records that reflect his teachings of courses within in the Department of Zoology are contained more or less in one series, Teaching Files.

Finally as one might expect in personal records, there is very little evidence of his role in University administrative positions. Neither is there any significant amount of records documenting his personal life. The Personal Correspondence series, for example, contains mainly correspondence regarding professional appointments and remuneration.

These records will be of general interest to researchers studying the history of science and particularly of cellular biology, the history of the teaching of science, and the history of any of the associations to which Dr. Zimmerman was active. It may also be useful to those researching the role of scientists in society in general, especially with respect to their influence on issues surrounding drug abuse.

Access:                      Open

**SERIES DESCRIPTIONS**

**SERIES 1 : Personal correspondence**

1964-1994                      0.02

This series contains personal correspondence regarding appointments, remuneration, sabbatical requests and research proposals. There is also one file relating to his appointment as Associate Dean of the School of Graduate Studies.

See Box /001 (01) - (05)

**SERIES 2 : Professional Correspondence**

1957-1997                      0.48 m

Correspondence and related attachments document Zimmerman's professional relationships especially with co-authors of published articles, research partners and former Ph.D. students. Arranged alphabetically by correspondent.

See Boxes /001 (06)-(25) to /003 (01)-(11). For further detail, see file list Appendix 1.

**SERIES 3 : Letters of Recommendation**

1965 - 1997                      0.1 m

Series contains letters of recommendation written for former students and colleagues in support for their requests for grant funding and academic appointments.

See Box /003 (12)-(18).

**SERIES 4: Publications**

1956-1994                      0.9 m

Records in this series document Zimmerman's publishing activities relating to refereed articles, chapters in books, books edited and papers presented at symposia, and subsequently published in proceedings and journals. Files contain draft manuscripts, submitted final drafts, some research notes, as well as correspondence among the authors, with publishers and comments from reviewers. They are arranged chronologically. Files are titled most often with the name of the authors and sometimes the "running title". A cross-reference number [ in brackets ] refers to its corresponding bibliographic reference in Zimmerman's c.v. found in Appendix 2.

See Boxes /004 - /007, /008 (01)-(11) and Appendix 2 for further detail.

**SERIES DESCRIPTIONS**

**SERIES 5: Reviews**

1968 - 1992 0.1 m

This small series contains correspondence and reports documenting Zimmerman's role as reviewer for various publications particularly Experimental Cell Research, Journal of Parasitology, Cytobios and Life Science Advances. Also includes files on reviews of grant proposal applications to the National Institute of Drug Abuse and the Medical Research Council of Canada.

See Box /008 (12)-(22)

**SERIES 6: Cell Biology Series**

1976-1994 0.2 m

General files document Zimmerman's time as editor of the Cell Biology Series and contain correspondence, status reports, proposed papers and notes of editorial board meetings. These files are followed by files specific to scientific papers published by the Series which are arranged by the name of the author(s). They contain correspondence, notes, critical comments, proposals, outlines and manuscripts.

See Box /009

**SERIES 7: Canadian Journal of Biochemistry and Cell Biology**

1979-1993 0.2 m

While Associate Editor of the Canadian Journal of Biochemistry and Cell Biology, Zimmerman collected records that document the editorial board including correspondence, minutes and agenda from the annual meetings. Also included in the series are publication case files that contain submitted manuscripts, correspondence and referee reports.

See Box /013

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## SERIES DESCRIPTIONS

### **SERIES 8: Seminars and Talks**

1960 - 1992    0.6 m

This series documents attendance and participation at professional conferences, meetings and symposia. Files contain correspondence relating to attendance and the delivery of papers, as well as manuscripts of seminars and talks. They also contain general information regarding meetings including conference programs, list of participants, minutes and proceedings. Includes associations and symposia such as: the International Cell Cycle Congress, Canadian Federation of Biological Sciences, the American Society of Cell Biology and the International Congress of Physiological Sciences.

This series also includes notes and draft manuscripts for workshops and invited lectures especially relating to Zimmerman's research on narcotics and particularly marijuana in the 1970s. All files are titled most often by the institution or group hosting the seminar and are arranged chronologically.

See boxes /010 - /012

### **SERIES 9: Grant Applications**

1962-1991            0.1 m

Series consists of correspondence and grant applications detailing Zimmerman's research experiments as proposed. Zimmerman received grants from various organizations including the Marine Biological Laboratory (Massachusetts), National Cancer Institute of Canada, the Ontario Research Foundation, the National Research Council and the Natural Sciences and Engineering Research Council. Files are arranged more or less chronologically.

See Box /014 (01) - (22)

**SERIES DESCRIPTIONS****SERIES 10: Professional Association and Research Institutes**

1970-1995                      0.3 m

This series documents Zimmerman's activities in terms of research and professional leadership in various organizations. Files contain mainly correspondence, agenda and minutes of meetings, research proposals, papers and progress reports. Of note are the records related to Zimmerman's role in the research surrounding the effects of cannabis. They include research and reports for the Department of National Health and Welfare, Food and Drug Directorate for the Government of Canada, the U.S. Senate, Committee of the Judiciary Subcommittee on Internal Security as well as the National (U.S.) Institute of Drug Abuse. There are also several files on the Canadian Centre for Toxicology, the High Pressure Biology Group, the Canadian Society of Cell Biology, and the International Cell Cycle Society.

See Box /014 (23) and /015(29)

**SERIES 11: Teaching Lecture Notes**

196- - 198-                      0.33

Included in this series are lecture notes filed by subject used while teaching both graduate and undergraduate courses. Some of the subjects covered include lectures on RNA, cell surface, osmosis - diffusion, cannabis, cell synchrony, microtubules and mitochondria. There are also files relating to lab experiments and reading lists especially for the 4th year course, Cell Biology.

See Box /016 and /017

**SERIES 12: Graphic**

0.07                      196-

This series includes photographs and technical drawings of pressure equipment used by Zimmerman in early high pressure research.

See Box /001P

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Zimmersman, Arthur M.

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Appendix 1 File List: Series 2 – Professional Correspondence

Box	File	Title	Dates	
/001	(06)	Baczynsky, W. Oksana W.	1976 – 1981	
	(07)	Bird, Curt	1977 – 1995	
	(08)	Blum, N.	1972 – 1990	
	(09)	Bols, Niels	1972 – 1981	
	(10)	Brown, David	1990 – 1991	
	(11)	Cameron, Ivan	1974 – 1983	
	(12)	Cascarano, Joseph	1965 – 1974	
	(13)	Chant, A. D.	1967 – 1978	
	(14)	Corff, Sondra	1962 – 1984	
	(15)	Forer, A.	1974 – 1994	
	(16)	Freed, Jane	1975 – 1982	
	(17)	Ginzburg, Irith	1984 – 1985	
	(18)	Hartmann, John	1964 – 1989	
	(19)	Hermolin, Joseph	1973	
	(20)	Jetter, James R.	1978 – 1993	
	(21)	Kamiya, N.	1985	
	(21a)	Kennedy, John R.	1967-1969	
	(22)	Kojima, Manabu Kuno	1965 – 1966	
	(23)	Lowe, Louise		
	(24)	Letts, Pamela J.	1966 – 1974	
	(25)	Lum, Jean B.	1974 – 1985	
	/002	(01)	McClellan, Dan	1969 – 1984
		(02)	Martin, Luis	1979 – 1987
		(03)	MacDonald, Alister	1972 – 1994
		(04)	Marsland, Douglas	1957 – 1981
(05)		Mazia, Daniel	1953 – 1970	
(06)		Mechoulam, Raphael	1987 – 1997	
(07)		Mettrick, Dr. David	1978 – 1986	
(08)		Mitchell, Jane	1979 – 1994	
(09)		Mitchison, J.M.	1968 – 1989	
(10)		Muller, Werner	1989	
(11)		Murakami, T.H.	1965 – 1966	
(12)		Nahas, Gabriel	1974 – 1985	
(13)		Padilla, George	1978 – 1985	
(14)		Palmer, Sarah	1975 – 1989	
(15)		Paul, Izhak	1973 – 1984	
(16)		Raj, Yesoda	1977 – 1992	
(17)		Roots, Betty	1985 – 1988	
(18)		Rosin, Miriam	1973 – 1987	
(19)		Rosen, Terry	1965 – 1969	

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Box	File	Title	Dates
	(20)	Schatten, Heide	1962 – 1995
	(21)	Schuel, Herbert & Mrs.	1963 – 1992
	(22)	Skehan, Philip	1986 – 1989
	(23)	Stein, Gary & Janet	1984 – 1988
/003	(01)	Silberman, Lester	1962 – 1980
	(02)	Stocco, Douglas	1969 – 1994
	(03)	Symington, Alison	1986 – 1991
	(04)	Tahir, Steven	1985 – 1990
	(05)	Thomas, James E.	1980 – 1988
	(06)	Titishov, Nina	1987 – 1989
	(07)	Tilak, Shashank K.	1977 – 1985
	(08)	Whitson, Gary	1975 – 1978
	(09)	Yingvorapant, Ellis	1990 – 1994
	(10)	Wilson, Ronald	1997
	(11)	Young, Leona	1972 – 1990