
Guide to the Papers of Albert Tyler, 1930-1968

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Descriptive Summary

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Biographical Sketch

Albert Tyler (1906-1968), Caltech professor of biology, was born in Brooklyn, New York, and received his bachelor's degree in 1927 from Columbia University. In 1928 he accompanied Thomas Hunt Morgan from Columbia to Caltech, as Morgan came to California to set up a new biology program. Tyler subsequently became Caltech's first PhD in biology (1929).

Tyler's lifelong devotion was to embryology, especially of marine organisms. During his years at Caltech he expanded classical embryology by the application of new methods from genetics and molecular biology. He was especially known for his studies of fertilization and his work on the chemistry and physiology of the fertilization process, and for his studies of embryogenesis in sea urchins. Tyler was the author of over 200 scientific papers.

Scope and Content

The Albert Tyler Papers (1930-1968) were donated to the Archives by the Caltech Biology Division in 1970. They represent only a small portion of his scientific legacy. In 1996, files relating to Tyler's work in the 1930s on *Urechis* and to Caltech's marine station at Corona del Mar were transferred from the T. H. Morgan papers to the Tyler collection. Researchers should consult related collections in the Archives: the Papers of Thomas Hunt Morgan, the Papers of Norman Horowitz, and Biology Divisional Records.

Biology courses, lectures, quizzes

Box 1, Folder 1.1	Embryology class and lecture, MBL
Folder 1.2	Embryology course
Folder 1.3	Histology lab
Folder 1.4	Bi 11 Histological Technique
Folder 1.5	Bio 128 Advanced Microtechnique
Folder 1.6	Quizzes, lectures
Folder 1.7	Quizzes
Folder 1.8	Notes and reprints I
Folder 1.9	Notes and reprints II

Miscellaneous lecture notes and experiments

Box 2, Folder 2.1	Requests for reprints Caltech
Folder 2.2	Handwritten notes
Folder 2.3	Protope (1st copy)
Folder 2.4	<i>Protoplasmatologia</i>(copies)
Folder 2.5	Misc. letters
Folder 2.6	Lecture notes I
Folder 2.7	Lecture notes II
Folder 2.7a	Talks outlines and notes
Folder 2.8	<i>Urechis</i> DNA 1968 See also: Box 8
Folder 2.9	<i>Urechis</i> DNA 1967-1968; <i>Urechis</i> experiment of Dec. 6, 1967 See also: Box 8
Folder 2.10	Protein determination
Folder 2.11	Parthenogenesis
Folder 2.12	"Methods and Principles of Systematic Zoology," Mayer, Linsley, and Unsinger
Folder 2.13	"Fertilization," proposed article for <i>Protoplasmatologia</i>

Mouse egg culture tests

Box 3, Folder 3.1	Mouse egg cultures 1957-1959
Folder 3.2	Mouse egg cultures, original protocols 1957- 1958
Folder 3.3	Mouse egg cultures, original protocols 1958- 1959
Folder 3.4	Mouse egg cultures, June-November 1959
Folder 3.5	Mouse culture data 1959-1961
Folder 3.6	Mouse eggs data, January-June 1960

Polyuridylic acid tests (Poly U)

Box 4, Folder 4.1	Miles Chemical Company, correspondence re: Poly U
Folder 4.2	Summary action of Poly U on whole eggs
Folder 4.3	Notes on Poly U and protein panosynthesis 1962-63; summary tables of experimentation
Folder 4.4	Tested Poly U on urides, whole eggs, and tested effects on eggs (includes photos)
Folder 4.5	Poly U; phosphate
Folder 4.6	Poly U tests
Folder 4.7	Negatives of Poly U effects on eggs
Folder 4.8	Poly U effects on whole eggs during 5-180 min. incubations
Folder 4.9	Experiment with whole eggs
Folder 4.10	Poly U effects on whole eggs with 20 amino acids together

Folder 4.11	Poly U effects on eggs Organizations
Box 5, Folder 5.1	American Society for the Study of Sterility 1947, 1954
Folder 5.2	American Society of Zoologists 1955- 1963
Folder 5.3	California Alumni of Columbia College First Congress of Animal Reproduction, Milan
Folder 5.4	Correspondence 1946-1947
Folder 5.5	Correspondence 1948
Box 6, Folder 6.1	List of publications
Box 6-7	Reprints, Albert Tyler
	Marine Biology Laboratory
	Note
	[Materials removed from the T. H. Morgan Papers, June 1996]
Box 8, Folder 8.1	Equipment, misc. (T. H. Morgan) 1930- 1947
Folder 8.2	Misc. 1940-1968
Folder 8.3	Sea water system 1959-1962
Folder 8.4	Marine Station Committee, re: application for NSF funds 1960- 1967
Folder 8.5	Proposal for a "Community Marine Station" 1960- 1962
Folder 8.6	Development of upper Newport Beach 1961- 1968
Folder 8.7	Rehabilitation by NSF 1962-1963
Folder 8.8	Development of upper Newport Bay
	Miscellaneous technical material
Box 8, Folder 8.9	Urechis centrifuge experiments (includes notes from T. H. Morgan) 1930
Folder 8.10	Urechis parthenogenesis (includes correspondence form Hans Bauer) 1936- 1937
Folder 8.11	T. H. Morgan reprint, " Self-Sterility in Ciona," annotated by Tyler 1942
	Miscellaneous correspondence
Box 8, Folder 8.12	Beadle, George 1930, n.d.