

A Guide to the Papers of John Philip Trinkaus (1918-2003)
Marine Biological Laboratory
Woods Hole, MA 02543

Processed by Diana Carey

Archives of the Marine biological Laboratory
7 MBL Street
Woods Hole, MA 02654
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Manuscript Collection MBL 2003-2
Twenty 12" x 24" boxes, One 19" x 26" x 3"

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BIOGRAPHICAL INFORMATION

John Philip Trinkaus was born on May 23, 1918 in Rockville Centre, Long Island, New York, to Charles Edward Trinkaus and Franciska Magdalena Kruger. He studied at Wesleyan and Columbia Universities and then received his Ph.D. in 1948 from John Hopkins. Trinkaus then joined the faculty of the Zoology Department (later the Biology Department) at Yale University where he stayed until his retirement as Professor Emeritus in 1988. Trinkaus, known as Trink to friends and colleagues, was a popular and respected teacher – known for his political activism and his zest for life – and a dedicated researcher. Throughout his life he relished being “at the bench” as he referred to lab work.

Trinkaus specialized in the fields of molecular, cellular, and developmental biology. He performed research at the Station Marine, Roscoff, Brittany in France and at the Marine Biological Laboratory in Woods Hole, Massachusetts, where he spent many summers. At MBL, Trinkaus served on the faculty of the very embryology course that he had been a student in during the summer of 1939. He was a summer investigator at the MBL and in 1948 became a member of the MBL Corporation. In 1948 he received a MERIT award from the National Institutes of Health that allowed him to continue his research after retiring from Yale.

PROVENANCE

The first papers of John Philip Trinkaus were donated and shipped to the MBL Archives by his widow, Madeline Trinkaus. Later the bulk of the papers were shipped from his office at Yale in the summer of 2003.

ARRANGEMENT

Papers that arrived at the MBL Archives already in folders have been left in their original order. Papers that arrived unlabeled have been grouped into categories: appreciations, correspondence, photographs, and institutions.

SCOPE AND CONTENT

The Trinkaus papers comprise 21 23 x 12 boxes and one 18 x 26 box, spanning in date from 19908 to 203. They contain: correspondence; notes and manuscripts for Trinkaus' classic book on cell migration, "Cells in Organs: The Forces that Shape the Embryo" and his memoir, "Embryologist" speeches; photographs; collected aphorisms, humorous essays, clippings, and cartoons; microscope slides; and two VHS tapes.

CONTAINER LIST

- Box 1 Papers and Photographs
- Box 2 Glass Microscope Slides
- Box 3 Glass Microscope Slides
- Box 4 Correspondence
- Box 5 Autobiographical Materials, Correspondence
- Box 6 Conferences, Grant Applications, and Misc. Writings
- Box 7 Correspondence, Recommendations, Misc.
- Box 8 Biological Stations, Misc. Writings, and Yale Biology Course
- Box 9 Misc. Notes & Writings
- Box 10 Conferences, Yale Biology Course
- Box 11 Woods Hole, Yale Biology Course
- Box 12 Drawings, Misc. Notes
- Box 13 Misc. Notes, Writings
- Box 14 Blennius Writings & Photographs
- Box 15 Notebooks, Photographs, Signature Stamps, VHS Tapes, Misc.
- Box 16 Notebooks, Photographs
- Box 17 Conferences & Notes, Photographs, Yale Biology Course
- Box 18 Slides
- Box 19 Correspondence & Recommendations, Photographs
- Box 20 Illustrations & Photographs
- Box 21 Oversized Material

FOLDER LIST

Box	Folder	Title	Date Range
1	1	Amoeboid Movement, Cytoplasmic Flow	[1969-73]
1	2	Appreciations: Birthday, Retirement, Trinkfest	1987-88
1	3	Autobiographical Writings (1 of 2)	1989-2002
1	4	Autobiographical Writings (2 of 2)	1989-2002
1	4a	Autobiographical Writings: A condensed History	1989-2002
1	4b	Autobiographical Writings, Family History	1931-1993
1	4c	Autobiographical Writings: How I have tried to Manage my Life	1933
1	5	Autobiography: Berkeley	1988-99
1	6	Autobiography: Notes, Outline, Correspondence	1962-2001
1	7	Cells into Organs: Criticisms	1971-77
1	8	Cells into Organs: Criticisms of Book Manuscript (1 of 2)	1978-81
1	9	Cells into Organs: Criticisms of Book Manuscript (2 of 2)	1978-81
1	10	Cells into Organs: Letters on Book, Good Reviews	1967-73
1	11	Cells into Organs: Measurement of Cell Adhesion	[1969-72]
1	12	Conklin Medal	1995-96
1	13	Contact Inhibition of Movement (1 of 2)	1971-73
1	14	Contact Inhibition of Movement (2 of 2)	1970-73
1	15	Correspondence (1 of 2)	1986-2002
1	16	Correspondence (2 of 2)	1986-2002
1	17	Correspondence: Email	1999-2000
1	18	Correspondence, Writings: Saunders, John; Photograph of Hopkins Biology Department	1998-99
1	19	Cyclic AMP	1974-75
1	20	Cytoskeleton – Contractility	1971-74
1	21	Developmental Biology Syllabus	1987
1	22	French Lessons: Notebooks	
1	23	Harris, Albert K.: Writings; Biology 166	1994
1	24	Marine Biological Laboratory	1986-95
1	25	Medical Records	1997-2001
1	26	Microtubules	
1	27	Miscellaneous: Ephemera, Clippings	
1	28	Oral History Interview Transcripts	1992
1	29	Photographs	
1	30	Plasma Membrane	[1968-74]
1	31	Reprints, Articles: Other Authors	1968-99
1	32	Reprints, Bibliography, List of Students	1976-98
1	33	Reprints Mailing List; Personal Address Book	
1	34	Surface Adhesion (Chapter Six)	1970-79
1	35	Talks, Writings	1981-95
1	36	VHS Tapes: Copy of Film by Haig Keshishian; Epiboly, Propertoy of George Oster	
1	37	Who's Who Listing	1968-2002

1	38	Yale: Local 34 Agreement (Bound and Inscribed to Trinkaus)	1985
1	39	Yale: Strike, Retirement Policies	1974-87
1	10	Yost, John	1981-82
1	41	Zoology 23 – Fluff (Writings, Ephemera, Humor (1 of 3))	1952-87
1	42	Zoology 23 – Fluff (Writings, Ephemera, Humor (2 of 3))	1952-87
1	43	Zoology 23 – Fluff (Writings, Ephemera, Humor (3 of 3))	1952-87
1	44	Scroll Showing Lineage of Students and Teachers	
1	45	Yale Retirement Certificate	1988
2	1	3379	
2	2	4-9 d. Wing Bud 1100-1599	
2	3	Cytology-Collumbia	
2	4	Feather Germs (Long & K-sect)	
2	5	Feather Germs [Long & RT]	
2	6	Feathers	
2	7	Hormone Treated Feathers [Slides out of order]	
2	8	Pigment Free [Converts] (PFC)	
3	1	Serial Sections Chick, Stage 25-29	
3	2	Serial Sections Chick, Stage 32	
3	3	Serial Sections Chick, Stage 36	
3	4	Serial Sections Chick, Stage 39, 1-100	
3	5	Serial Sections Chick, Stage 39; 101-195	
4	1	Correspondence: A	1978-1987
4	2	Correspondence: B	1974-1990
4	3	Correspondence: C	1967-1991
4	4	Correspondence: D	1975-1989
4	5	Correspondence: E, F	1974-1989
4	6	Correspondence: G	1975-1988
4	7	Correspondence: H	1976-1988
4	8	Correspondence: I, J, K	1975-1988
4	9	Correspondence: L	1974-1987
4	10	Correspondence: M	1974-1989
4	11	Correspondence: N, Nakasutji	1975-1988
4	12	Correspondence: O, P	1974-1989
4	13	Correspondence: R	1977-1988
4	14	Correspondence: S	1974-1990
4	15	Correspondence: T, V	1975-1989
4	16	Correspondence: W	1974-1988
4	17	Correspondence: X, Y, Z	1977-1988
4	18	Correspondence: Michael Abercrombie (1 of 2)	1970-1987
4	19	Correspondence: Michael Abercrombie (2 of 2)	1970-1987
4	20	Misc. Correspondence (1 of 2)	1974-2002
4	21	Misc. Correspondence (2 of 2)	1974-2002
4	22	Misc. Correspondence	1949-1990
4	23	Misc. Correspondence	1940-1951
4	24	Misc. Correspondence	1951-1952
4	25	Misc. Correspondence	1953-1956

4	26	Misc. Correspondence	1958-1959
4	27	Misc. Correspondence	1960-1961
4	28	Misc. Correspondence	1960-1961
5	1	Misc. Correspondence (1 of 2)	1962-1964
5	2	Misc. Correspondence (2 of 2)	1962-1964
5	3	Misc. Correspondence	1965-1966
5	4	Misc. Correspondence	1967-1968
5	5	Misc. Correspondence	1956-1957
5	6	Correspondence: MBL	1991-1992
5	7	Correspondence: Strike, Retirement (1 of 2)	1979-1984
5	8	Correspondence: Strike, Retirement (2 of 2)	1979-1984
5	9	Misc. Correspondence	1984-1991
5	10	Misc. Correspondence	1992
5	11	Misc. Correspondence	1993
5	12	Misc. Correspondence	1994-1995
5	13	Misc. Correspondence	1996-1997
5	14	Misc. Correspondence: Devillers	1961-1962
5	15	Letters of Recommendation	1958-1965
5	16	Letters of Recommendation (1 of 2)	1948-1958
5	17	Letters of Recommendation (2 of 2)	1948-1958
5	18	Book: Letters about, Reviews [Cells into Organs]	1983-1985
5	19	Autobiography: Chapter 1	2001
5	20	Autobiography: Chapter 2	2001
5	21	Autobiography: Chapter 3	2001
5	22	Autobiography: Chapter 4, 5	2001
5	23	Autobiography: Chapter 6, 7	2001
5	24	Autobiography: Chapter 8, 9	2001
5	25	Autobiography: Chapter 10	2001
5	26	Autobiography: Chapter 11, 12	2001
5	27	Autobiographical Material: C.V., Who's Who Listing	2001
5	28	Retirement	1981-1986
5	29	Paper on Teleost Devel.	
5	30	NIH Merit Award: Contact Behavior of Developing and Transformed Cells	1992-1997
5	31	Grant Reward: Contact Behavior of Developing and Transformed Cells	1982
6	1	Gatlinburg Conference	1962
6	2	MS: Michael Abercrombie, Preface	1987
6	3	MS: Role of Sex-Genotype	1949
6	4	MS: Pigment Cell Growth- Book Chapter	1952
6	5	MS: Epiboly... Fundulus	
6	6	MS: Thesis "Analysis...extractiol...in Brown Leghorn fowl"	1950
6	7	Conference: Biology of Connective Tissue Cells (Princeton)	1961
6	8	Conference: Biology of Pigment Cell Growth (NY Zoological Society)	1949
6	9	MS: Differentiation....dissociated tissue cells	1955

6	10	MS: "Differentiation of Tissue Cells", "...marking...cells" & "...relationships in cell aggregates"	1960-1961
6	11	Proposal re. locomotion of leukocytes (Keller)	1978
6	12	RIS	1993
6	13	RIS	1998
6	14	RIS	1998
6	15	RIS	1998
6	16	[Erickson, C.] Fundulus	1981
6	17	[Samuel Ward] Fertilization in c. elegans spermatazoa	1981
6	18	NSF Grant; Oppenheimer (Woods Hole 1999)	2000
6	19	Cytokinesis	1987
6	20	[Wourms, J.P.] Rise of Fish Embryology in the 19 th C	1992?
6	21	P-W "Citations"	1979-1992?
6	22	Comments of Other Researchers Papers	1960-1980
6	23	Problems for SI	1956-1981
6	24	MS Collection	1963-1965
6	25	MS Reviews	1974-1979
6	26	Manuscript Reviews	1981-1989
6	27	MS: "Experimental Embryology of Aquatic Plants & Animals"	1989
6	28	Roscoff & UCA Berkely	1979-1987
6	29	Cacinomata	1975
6	30	Care of Fish	1953-1988
6	31	Papers of Charles Trinkaus	
6	32	NIH: "Contact Behavior of Developing and Transformed Cells"	1986-1990
6	33	NIH: "Contact Behavior of Developing and Transformed Cells" Grant Application	1986-1990
7	1	[NSF Research Proposal] Annual Report	1971-1972
7	2	Lectures at College de France	19-19
7	3	Whittaker, J. Richard [Correspondence, Recommendations]	1957-1992
7	4	Academic Freedom, ACLU [Correspondence, Recommendations]	1953-1958
7	5	Weston, James A. [Correspondence, Recommendations]	1959-1986
7	6	Tickle, Cheryl A. [Correspondence, Recommendations]	1969-1982
7	7	Ramsey, Scott W. [Correspondence, Recommendations]	1967-1988
7	8	Vaughan, Roger B. [Correspondence, Recommendations]	1963-1964
7	9	Wessels, Norman K. [Correspondence, Recommendations]	1959-1986
7	10	Steen, Trygve [Correspondence, Recommendations]	1963-1985
7	11	Shure, M. S. [Correspondence, Recommendations]	1971-1986
7	12	Radice, G. [Correspondence, Recommendations]	1972-1990
7	13	Kolega, John P. [Correspondence, Recommendations]	1978-1993
7	14	Karfunkel, Perry R. [Correspondence, Recommendations]	1967-1988
7	15	Keller, Raymond [Correspondence, Recommendations]	1974-1988
7	16	Johnson, Kurt E. [Correspondence, Recommendations]	1966-1989
7	17	Grant 49900- Financial Statements. NIH:CA 22451-10	1983-1986

7	18	TIAA-CREF Retirement Plan	1975-1977
7	19	MBL Grant Application "...Fundulus Correspondence	1986-1990
7	20	Publications of Eric and Katherine Trinkaus	1973-1986
7	21	NATO Conference on "Experimental Embryology in Aquatic Plant & Animal Organisms	1988-1989
7	22	Copyrights, Mailing Lists	1983-1995
7	23	Prints: Blennius	
7	24	Biological Station: Europe	1960-1966
7	25	Fish Eggs- Misc.	1961-1963
7	26	Erik Trinkaus	1999-2000
8	1	Yale, Biology II: Lectures and Misc.	1959-1967
8	2	Yale, Biology I: Labs, etc.	1967-1969
8	3	Yale, Biology I	1951-1969
8	4	Yale, Biology 10	1969-1972
8	5	Biology 10	1969-1979
8	6	Yale, Biology II Lectures	1962-1963
8	7	Yale University & Branford College	1964-1984
8	8	Branford College Recommendations	1972-1979
8	9	Yale University Biology Department	1965-1987
8	10	Yale University Analysis of Development	
8	11	Yale University Lectures on Development	
8	12	Yale University, Cytodifferentiation	1958-1963
8	13	Yale University, Cytodifferentiation	1964-1965
8	14	Yale University, Developmental Biology	1968-1978
8	15	Yale University, Biology Lab	1977-1986
8	16	Yale University, Zoology	1949-1974
8	17	Yale University, Zoology	1949-1955
8	18	Induction	1960-1962?
8	19	Aging; Sleep	1975-1984
8	20	Sea Urchin- Primary Mesenchyme	1976-1977
8	21	Sea Urchin- Mechanization of Invagination	1959-1969
8	22	Volume of Mixed Aggregates	
8	23	Volume of Mixed Aggregates	
8	24	Aggregates of RPL	1957-1962
8	25	Cell Affinities	1957-1961
8	26	Correspondence on Cell Contact & Adhesion; Pigmented Epithelium of Retina	1958-1960
8	27	MS: Pigment Cells Conference	1960-1961
8	28	MS: Dissociated Tissue Cells	1958-1960
8	29	Cell Stability	
8	30	Cancer	1959-1984
8	31	Biological Stations: Bermuda; Virginia	1951-1996
8	32	Biological Stations: Bimini	1958-1965
9	1	MS: Summaries of Vesicle Formation	1958-1961
9	2	MS: Adhesive Props.	
9	3	Enveloping Layer Cells	1969-1971

9	4	MS: SEM and Extensibility BHK Cells	1974
9	5	Diatom Movement	1976-1977
9	6	MS: Cinemicrography of RPL Cells in Mixed Aggregates	1966
9	7	Pigment Cell Migration	1964
9	8	Deep Cells in Vitro	1954-1963
9	9	[Lentz] MS: Differentiation of the Junctional Complex	1969-1971
9	10	MS: 'No Man's Land' Effect	1973
9	11	MS: Enhancement of Morphogenesis in Fundulus Blastoderms by Fusion and Crowding In Vitro	1956-1959
9	12	MS: Procurement, Maintenance, and Use of Fundulus Eggs	1965-1967
9	13	MS: Cellular Basis of Epiboly	1962-1963
9	14	MS: Trinkaus and Drake	1955-1956
9	15	MS: Local Inhibition of Ruffling	1968-1970
9	16	MS: Electrical Coupling	1968
9	17	MS: Organogenesis	1964
9	18	MS: Growth Sympos	1966
9	19	Letter to Nature	1975-1976
9	20	MS: Ontogenesis	1970-1971
9	21	MS: EM; Vaughan & Trinkaus	1966
9	22	MS: Microvilli	1975
9	23	MS: Observations on Nudging Cells in Culture; Nudging	1976-1978
9	24	MS: Betchaku & Trinkaus	1972-1975
9	25	CIBA Symposium: Transcript of Discussion	1973
9	26	MS: CIBA Symposium, Proofs	1971-1973
9	27	MS: [Deformability?] Tickle & Trinkaus 1977	1973-1977
9	28	MS: Bennett & Trinkaus; Deep Cells 1973	1969-1972
9	29	MS: Diff. Tissue Cells, American Naturalist	1956
9	30	MS: Cells into Organs (1 of 2)	
9	31	MS: Cells into Organs (2 of 2)	
9	32	MS: Keller & Trinkaus	1986-1987
9	33	MS: Davis & Trinkaus	
9	34	MS: Hogan & Trinkau	1977
9	35	MS: Direct Observation of Type-Specific Segregation in Mixed Cell Aggregates	1963-1964
9	36	[Erickson, C. A.] T. & E. MS and Correspondence	1983
9	37	[Erickson, C. A.] T. & E. Tracings	1976-1983
9	38	YSL	1992
9	39	Ingression [During Early Gastrulation of Fundulus]	1986
9	40	MS: Fink & Trinkaus	1988
10	1	Small Molecules in Histogenesis	1958?
10	2	Fundulus Isolates: Media Techniques; Statistical Cell Analysis	
10	3	Fundulus Isolates: Summary; Drawings 1098-1516	
10	4	[Drake] Fundulus, PH Controls, Kinetin	1956
10	5	Isolated Blastoderms	1949-1951
10	6	Analysis of Cultures of Isolated Fundulus Gastr.	1955

10	7	Cultures of Blastoderms: Notes, Proposed Experiments, Summaries	1950-1954
10	8	Fundulus Cell Cultures (1 of 2)	1954-1958
10	9	Fundulus Cell Cultures (2 of 2)	1954-1958
10	10	Cell Surface Seminar	1973-1982
10	11	Tropical Marine Lab	1965-1967
10	12	Correspondence: Letters from Students	1956-1991
10	13	Symposium: Developmental Biology of Fishes	1979
10	14	Tropical Reefs	
10	15	Lectures in French, AIBS Lectures	
10	16	Stability of the Differential State	1972
10	17	Morphogenetic Movements	1949-1957
10	18	Cytodifferentiation I	1955-1957
10	19	Cytodifferentiation 6	1963-1964
10	20	Normal Rate of Epiboly	1951
10	21	Carbon Marking	1951-1955
10	22	Carbon Marking, MBL	1949
10	23	MBL Forms	1972-1977
10	24	Fundulus Protocols	1965-1967
10	25	MBL 1971 Protocol	1971
10	26	MBL [Notes]	1980
10	27	MBL: Living EVL Cells	1981
10	28	Blebbing	1973-1978
10	29	Fundulus Protocols	1964
10	30	MBL Protocol, etc.	1972-1978
10	31	EM Freeze-Fractures	1970-1974
10	32	Permeability of Enveloping Layer (1 of 2)	1963
10	33	Permeability of Enveloping Layer (1 of 2)	1963
10	34	Symposium [Bodega Marine Laboratory]	1989-1990
10	35	Symposium: Uppsala University	1976-1977
10	36	Lectures	1981-1992
10	37	Le Petit Guide de Castellet	
10	38	Brighton Paper	
10	39	Advanced Seminar in Developmental Biology; Cell Contact Seminar	1967-1969
10	40	Zoology 23	1949-1956
10	41	Developmental Biology	1972-1976
11	1	Grants: NIH	1952-1983
11	2	Grants: NIH	1976-1986
11	3	Grants: NIH	1986-1990
11	4	MS: Convergence	1991?
11	5	MS: Deep Cells, Figures	
11	6	MS: Deep Cells, Drawings	
11	7	MS: Roscoff	1982-1988
11	8	Northrup [Notes, Biology 345a]	1949-1985
11	9	Histology Lab	1938-1939

11	10	Enzyme Seminar	1946-1947
11	11	Animal Behavior; Biochemistry; Seminar on Color Pattern, Willier 1941; Misc. Notes	1941-1946
11	12	McCollum-Pratt Symposium	1958
11	13	Hartford College	1953-1954
11	14	Buena Vista Conference: Valhalla, NY	1956
11	15	Pigment Cell Conference	1951
11	16	Philosophy of Science [Sarah Lawrence College]	1962
11	17	Science and Society	1939-1940
11	18	Sexism	1970-1971
11	19	Drugs	1969-1971
11	20	Notes: Vesalius-Harvey; Aging; The Living State	1957-1970
11	21	Animal Behavior; Genetics; Invertebrates	1957-1975
11	22	Immunology & Organ Transplant; Physiology	1968-1970?
11	23	Evolution	1949-1968?
11	24	Neurophysiology	
11	25	Lectures	1967-1981
11	26	Festschrift; Embryology Lecture; Notes, Woods Hole; Science Clippings	1941-1942
11	27	Embryology, Woods Hole	1939-1952
11	28	Embryology, Woods Hole	1955-1956
11	29	Embryology, Woods Hole	1956
11	30	Embryology, Woods Hole	1951-1964
11	31	Embryology, Woods Hole	1971
11	32	Embryology, Woods Hole	1984
12	1	Notes, Drawings: [Drake] Fundulus, Preculture & YS Opening, Blastoderms	1956-1961
12	2	MS: Cass-Dunham	1974
12	3	Adhesivity of Periblast & YCL	1969-1973
12	4	Proposed Experiments on Fundulus	1967-1972
12	5	MS: Epiboly: Theoretical	1949-1952
12	6	MBL: Surface Gel Layer, Embryology	1948
12	7	Detergents	1951
12	8	Relation of Cell Division to Gastrulation; Proposed Experiments on Epiboly; Fundulus Film (Walcott)	1948-1953
12	9	SEM Fundulus	1976-1978
12	10	Electronic Coupling	1967-1972
12	11	High Adhesivity, Low Resistivity; Ca Free- SW, CaCl ₂ , pH, etc.	1949-1974
12	12	MBL: Nudging Protocol	1976
12	13	Deformability [Tickle, Cheryl]	1972-1976
12	14	[Drake, J.] Drawings: Fundulus Isolates: MBL, Cases 200-551	1952
12	15	[Drake, J.] Drawings: Fundulus Isolates: MBL, Cases 551-824	1952
12	16	Drawings: Fundulus Isolates	

12	17	Drawings: Fundulus Isolates	1952?
12	18	Drawings: Isolated Fundulus Gast.	1955
12	19	Greganne Movement; Endoume; Entamoeba Invaders	1972-1979
12	20	Paracentrotus Photos	1965
12	21	Culture of Lebistes [Mallory, Frank]	
12	22	Mesenephros Degeneration; Tissue Culture Protocol [Abercrombie]	1956-1962
12	23	Suggested Research in Pigmentation; Chick & Juvenile Plumage; Feather Growth	1947-1951
12	24	...Hormone Action; ...Melanoblast Multiplication; Irridescence	1947
12	25	In Vitro Action of Estradiol; Melanophore Migration	1946-1947
12	26	Histology of Transition Zone; Role of Ectoderm in Pigmentogenesis; Behavior of Adult Melanoblasts	1947
12	27	Chemistry of Melanin; Action of Hormone in Embryo (Estradiol)	1947
12	28	Thresholds for Pigmentation; General Statement of Problem (May 1947)	1946-1947
12	29	Isolation & Culture of Fundulus Blastoderms: Prescott's Data	1950
12	30	Culture of Blastoderms (David Denny); Intraocular Transpl.	1946-1953?
12	31	Fused Blastoderms	1955-1956
12	32	Drawings: Fundulus, Crowded Cultures	1956
12	33	Cell Differentiation: General	1955-1958
12	34	RNA, Differentiation, & Chemical Controls; Contact Inhibition	1964-1970
12	35	Chick Gastrulation	1956-1970
12	36	Labeled Thyroxine Exp. (I 181); Melanoblast Response to Thyroxine (General)	1947
12	37	Water Soluble Estrogens (Fleischman); Nutritional Factors in Feather Pigmentations; Comparison of Red Pigment in Male and Female Breast	1945-1955
12	38	Survival of Melanophores in Coelom	1946-1958
12	39	Analysis of Hormone Effects on Pigment; Sterad Hormones; MS: Thiouracil, Site of Action	1951-1964?
12	40	Notes on Feather Development	1941-1949
12	41	Histocompatibility	1946-1956
12	42	Regeneration; Nucleo-Cytoplasmic Relations	1953-1958
12	43	Collagen & Elasticin	1967-1968
12	44	Cloning of Connective Tissue Cells	1968
12	45	Proposed Experiments & Technique	1948-1958
12	46	Egg & Chick Sources	1941-1963
12	47	Nudging: Protocol & Thoughts	1970-1980
13	1	Creativity in Science	
13	2	Abortions & Control of Conception	1968-1971
13	3	MS: Movement of Cell Clusters In Vivo	

13	4	Embryology: Wesleyan, MBL	1938-1939
13	5	Notes: Blastodisc Formation; Chorion 'Dissolution'; Time Lapse Fundulus	1950-1964
13	6	Notes, Drawings: Fundulus Growth; Periblast Nuclei; Formation of Perivitelline Space	1951-1954
13	7	Notes on Surface Layers, General; Research Ideas on Fish Color Patterns	1961?
13	8	Notes, Photographs: Fundulus EM, First Attempts; Oudin Technique	
13	9	Trout, Ballard Stages; Woods Hole Fundulus Processing; Notes on Culturing etc.	1962-1963
13	10	Research Summary; Prep for TEM Fundulus	1970-1976
13	11	Notes: Stretching of Blastoderm...; YCL Marking; Effect of Distilled H ₂ O	1949-1972
13	12	Notes, Drawings: Marking of External YCL	1973-1974
13	13	Notes: Blennius Pholis	1980
13	14	Notes: [Involution?] in Teleosts; Changes in Yolk with Blastoderm Formation; Stretching Expt.	1950-1954
13	15	Fundulus: Epiboly, Surface Expansion in Cleavage of; Breeding in Wintertime	1950-1974
13	16	Drawings: Wound Closure; Cell Elongation at Blastopore	1949-1956?
13	17	Notes: Embryonic Sex Differentiation	1952
13	18	Minute-by-Minute Tracings	1996?
13	19	MS: Convergence	1990
13	20	MS: Convergence	1991-1992
13	21	MS: Convergence, Dorsal Series I	1987-1990
13	22	MS: Convergence, Series II	1990
13	23	Movement & Surface Activity; Relation between # of Cell Contacts & Movement	1989-1990
13	24	Photographs: Convergence, Epibolic Movement of Germ Ring	
13	25	Cytokinesis	1978-1991
13	26	Notes, Photographs: Origins of YSL Nuclei	1981-1991
13	27	Minute-by-Minute Photo Copies of S+ 18-18 ½	1987
13	28	Duration of Mitoses & Interphases; Wave Fronts	1987-1991
13	29	Notes, Photographs: YSL Nuclei & Cleavage: Synchrony & Onset of Motility	1987-1991
13	30	Notes, Photographs: Nuclear Metachrony	1987-1989
13	31	Notes, Photographs: I-YSL Origin, Epiboly, Analysis	1970-1989
13	32	Notes, Photographs: YSL Asters, Spacing, Football Nuclei	1987-1991
13	33	Notes, Photographs: Contraction of Early E-YSL	1987-1991
13	34	Notes, Photographs: Nucleation of I-YSL; Scales; Nuclear Fusion; E-YSL	1952-1991
13	35	E-YSL, YSL, Summary of Tapes, Ideas	1987-1992
13	36	Notes, Photographs: I-YSL: Counts of Daughter Nuclei, Waves	1987-1992

13	37	Ventral Gr. #1: Tracings, Raw Data, Statistical Comparisons	1990-1996
13	38	Ventral Gr. #2: Tracings	1993
13	39	Holtfreter: Notes	
13	40	35 mm Film Protocol	1987-1991
13	41	Tapes: Notes, Photographs (1 of 2)	1986-1993
13	42	Tapes: Notes, Photographs (2 of 2)	1986-1993
13	43	Notes, Drawings: Fundulus Cell Behavior; Early to Mid Gastrula, Deep Cells	1969-1970
13	44	Cell Surface Reviews	1974-1977
14	1	Blennius	1983
14	2	Blennius	1983
14	3	Blennius	1983
14	4	Blennius	1983
14	5	Blennius	1983
14	6	Blennius	1983
14	7	MS: Blennius...(1 of 2)	1983
14	8	MS: ...cell movement...Blennius...II (2 of 2)	1983
14	9	Blennius	1983
14	10	Blennius Photos	1981
14	11	Blennius II	1983
14	12	Blennius	1983
14	13	Blennius Photos	1983
14	14	Blennius I: Figures	1986
14	15	Blennius	1982
14	16	MS: Blennius I: Final 7 Critiques & Answer	1987
15	1	Stellate Cayer Film	1981
15	2	Misc. Experiment Prints	1961-
15	3	Pictures; figures, exp. Keller & Tosney	1943-1973
15	4	MS: On the Mechanism of Metazoan Cell Movements (1 of 2)	
15	5	MS: On the Mechanism of Metazoan Cell Movements (2 of 2)	
15	6	Prints for Reassortment in Mixed Cell Aggregates (Trinkaus & Lentz)	1964
15	7	Illustrations	
15	8	VHS Tape: MBL 86-4, Nikon, Fundulus	
15	9	VHS Tape: MBL 87-1, Copy	
15	10	VHS Tape	1996
15	11	VHS Tape: 1-94	
15	12	VHS Tape: Fundulus	1990
15	13	VHS Tape: Stg 13-20	1995
15	14	VHS Tape: Fundulus Germ Ring Sequences Filmed in RDF's Lab	1992
15	15	VHS Tape: Don Kane & Rachel Warga, Zebrafish Devel. & Fundulus Deep Cells	1991
15	16	VHS Tape: Mt Staining in Fundulus Embryos stg. 11...	1995

15	17	Notebook: Yale, Roscoff, Woods Hole	1982
15	18	Notebook: Biology, Yale	1978?
15	19	Notebook: Biology, Yale	1979
15	20	Notebook, Feathers: John Hopkins University	1948
15	21	5 Signature Stamps	
15	22	Index Cards- Addresses, Rejects	
15	23	A Model Atlas of the Ten Millimeter Pig	1967
16	1	Notebook: Woods Hole, Summer	1973
16	2	Notebook: Tissue Culture, John Hopkins University	1947-1948
16	3	Notebook: Experiments 117-129	1961-1962
16	4	Notebook: Yale	1955
16	5	Notebook: Yale, April 26	1956
16	6	Notebook: Yale, May 21	1957
16	7	Notebook: Yale, March 14	1958
16	8	Notebook: Tritiated Thymidine Records	1964
16	9	Notebook: Yale	1953
16	10	Notebook: Chick-Mouse Tritiated Thymidine	1963
16	11	Notebook: Proposed Methods	1968
16	12	Notebook: Solutions & Media	1968
16	13	Notebook: Cell Culture Experiments	1968
16	14	Notebook: Macrophages	1965-1966
16	15	Notebook: Research Notes	1941-1942
16	16	Notebook: Class Records	1979-1987
16	17	Notebook: Class Records	1986-1988
16	18	Minute-by-Minute Photo Copies (1 of 7)	1987
16	19	Minute-by-Minute Photo Copies (2 of 7)	1987
16	20	Minute-by-Minute Photo Copies (3 of 7)	1987
16	21	Minute-by-Minute Photo Copies (4 of 7)	1987
16	22	Minute-by-Minute Photo Copies (5 of 7)	1987
16	23	Minute-by-Minute Photo Copies (6 of 7)	1987
16	24	Minute-by-Minute Photo Copies (7 of 7)	
16	25	Photographs [Illustrations for Article?]	
16	26	Notebook: John Drake, Yale	
16	27	Notebook: Mike Bennett, Yale	1952
16	28	Bound Thesis (A Study of the Genetics & Physiology of the Character "Blond" of <i>Lebistes Reticulatus</i>), Correspondence	1940-1942
17	1	Conklin Lecture & MT	1995
17	2	Encyclopedie La Vie et L'Homme	1960-1963
17	3	Lectures, Conferences	1970-1989
17	4	Biographical Material, C.V.	1963-1993
17	5	Columbia University, Cytology Drawings	1940-1941
17	6	Yale Club	1976
17	7	Moscow Meetings	1968-1969
17	8	Wesleyan University	1974-1976
17	9	Silliman Lectures	1939
17	10	Developmental Biology: Differentiation	1956-1963

17	11	Developmental Biology	1966-1968
17	12	Developmental Biology	1973-1975
17	13	Yale: Developmental Biology	1978-1980
17	14	Developmental Biology	1974-1986
17	15	Memoirs	1998-1999
17	16	Blennius in Villefranche	
17	17	Data, Photographs: Convergence, Ventral Gr. # 1 & 2, 1991	1993-1996
17	18	[Philpott, Gordon] Dissociated Thyroid MS	1957
17	19	Culture of st. 12 & 13; Fundulus with Inoue	1950-1959
17	20	Photographs: SEM 1979	1979-1980
17	21	Photos, List of Woods Hole Films	1973
17	22	Ag NO3 Staining of EVL	1981
17	23	Photographs: TEM, SEM Deep Cells, EVL, YSL (E) (1 of 2)	1974-1976
17	24	Photographs: TEM, SEM Deep Cells, EVL, YSL (E) (2 of 2)	1974-1976
17	25	Photographs: Film 6	1991
17	26	Photographs: Film 7	
17	27	Photographs: Film 4-88; Film 90-2	
17	28	Photographs: Blennius Film; vi-88; ii-88; vii-88; xiv	1988
17	29	Photographs: 5-88; 90-3; v-88	
17	30	Photographs: Film 2, Ventral GR.; Film 1; Film 3	1992
18	1	Slides: Misc.	
18	2	Slides: Misc	
18	3	Photographs: Misc.	1996
18	4	Slide Lists: Paracentros, Bimini	1959-1965
18	5	Slides: MS "...Formation of Protrusions of the Cell Surface	1980
18	6	Slides: Blennius	
18	7	Slides: Misc.	
18	8	Negatives: MBL	1987-1991
18	9	Slides: Misc. Fundulus Fibroblast Movement [Betchaku] (1 of 2)	
18	10	Slides: Misc. Fundulus Fibroblast Movement [Betchaku] (2 of 2)	
18	11	Slides & Photographs: Fundulus Epiboly, Internalization, Yale	
18	12	Slides: Conklin & CSH	
18	13	Slides: Woods Hole, Yale, Misc.	
18	14	Slides: Tissue Cell Movement, Blennius & Misc. Fundulus	
18	15	Slides: Blennius, Clusters...	
18	16	Slides: Fundulus- Normal Development, MBL	
18	17	Slides: Roscoff, Ektachromes	1988
18	18	Slides: Misc.	
18		Misc Slides in Boxes: Blennius on the Rocks; Roscoff- Lab & House & JPT; Moorea; Fundulus Epiboly & Internalization; MBL	
19	1	Correspondence: Harris, Albert, "Life & Loves of Albert I	1971-1976
19	2	Correspondence: Post-Doctoral Fellows	1958-1980

19	3	Correspondence: Technicians	1951-1967
19	4	Electron Microscopy	
19	5	Letters of Recommendation	1985-1990
19	6	MBL: Land Deal, Etc.	1989-1990
19	7	MBL: Young Investigators Problem, Age Problem	1988-1990
19	8	Personal	1966-1989
19	9	Recommendations: Bell, Paul	1970-1981
19	10	Recommendations: Betchaku, Teiichi	1966-1986
19	11	Recommendations: Chen, Wen-Tien	1975-1993
19	12	Recommendations: Conrad, Gary	1964-1989
19	13	Recommendations: DiPasquale, Albert	1969-1985
19	14	Recommendations: Englander, Libbe	1979-1980
19	15	Recommendations: Erickson, Carol (1 of 2)	1972-1988
19	16	Recommendations: Erickson, Carol (2 of 2)	1972-1988
19	17	Recommendations: Ettensohn, Charles	1976-1992
19	18	Recommendations: Fink, Rachel (1 of 2)	1982-1990
19	19	Recommendations: Fink, Rachel (2 of 2)	1982-1990
19	20	Recommendations: Ganguly, Banku	1961-1981
19	21	Recommendations: Harris, Albert	1974-1976
19	22	Recommendations: Harris, Albert (1 of 2)	1964-1988
19	23	Recommendations: Harris, Albert (2 of 2)	1964-1988
19	24	Recommendations: Hilfer, Robert	1959-1986
19	25	Recommendations: Hogan, James	1972-1993
19	26	Recommendations: Huver, Charles	1958-1975
20	1	[Fink, Rachel] Photographs: Cell Turning-Fundulus, Woods Hole	1986
20	2	Hogan & Trinkaus, Cleavage Photographs	
20	3	Illustrations: "Cell Contact & Morphogenesis" (1 of 2)	
20	4	Illustrations: "Cell Contact & Morphogenesis" (2 of 2)	
20	5	Ingression of Dorsal Cells... [Trinkaus, Madeleine]	1994-1995
20	6	Photographs	1984
20	7	Photographs: Betchaku & Trinkaus, "Fundulus Epiboly"	1978
20	8	Photographs: Deletion of Trunk of Embryo	1987
20	9	Photographs: E-YSL, MBL 7-11	1987
20	10	Photographs: Film 4	
20	11	Photographs: MBL (1 of 3)	1986
20	12	Photographs: MBL (2 of 3)	1986
20	13	Photographs: MBL (3 of 3)	1986
20	14	Photographs: MBL Expts.	1986
20	15	Photographs: MBL 3-6, E-YSL (1 of 2)	1987
20	16	Photographs: MBL 3-6, E-YSL (2 of 2)	1987
20	17	Photographs: Negatives of YSL Plates	1985
20	18	Photographs, Personal	
20	19	Photographs, Personal	
20	20	Photographs, Personal, Group Photographs	1955-1990
20	21	Photographs: Removal of one PCM Embryo	

20	22	Photographs: Special Cases, Behavioral Embryos, 1-4	
21	1	Embryology & Proteins in Ontogeny, John Hopkins	
21	2	Large Electron Micrographs, Trinkaus & Lentz	1967
21	3	Misc. Oversized Photographs & Illustrations	
21	4	Feather Samples	