



# Merrifield (R. Bruce) papers

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English

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## Summary Information

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<b>Repository:</b>	Rockefeller Archive Center
<b>Creator - aut:</b>	Merrifield, Bruce (Robert Bruce)
<b>Creator:</b>	Rockefeller University
<b>Title:</b>	R. Bruce Merrifield papers, Rockefeller University Faculty
<b>ID:</b>	FA415
<b>Date [inclusive]:</b>	1935-2009
<b>Physical Description:</b>	157.17 Cubic Feet 411 document boxes
<b>Language of the Material:</b>	English

### Preferred Citation

Information regarding the Rockefeller Archive Center's preferred elements and forms of citation can be found at <http://www.rockarch.org/research/citations.php>

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## Biographical / Historical

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Robert Bruce Merrifield, known as Bruce, was born on July 15, 1921 in Fort Worth, Texas. His family moved to California in 1923, and Merrifield graduated from Montebello High School in 1939. He attended Pasadena Junior College and the University of California, Los Angeles (UCLA), graduating with a degree in chemistry in 1943. In 1944, he returned to UCLA for graduate school, conducting his thesis research under the supervision of Max S. Dunn. He received his PhD in 1949, married Elizabeth "Libby" Furlong the day after his graduation, and moved to New York City to take up a fellowship in the laboratory of D. Wayne Woolley at the Rockefeller Institute for Medical Research the day after his wedding.

Merrifield's work in Woolley's lab included synthesizing peptides, a process that could take months or even years. In 1959, Merrifield proposed an idea for what would eventually become the process of solid phase peptide synthesis to Woolley, who gave him permission to experiment. In 1962, Merrifield published an article establishing solid phase peptide synthesis (SPPS) as a less time-consuming alternative to old peptide synthesis methods. During his tenure at Rockefeller, Merrifield devoted much

of his time and research to continued exploration of solid phase peptide synthesis, and many students and colleagues joined him to expand his investigations.

Merrifield was awarded the Lasker Basic Medical Research Award in 1969, was elected as a member of the National Academy of Sciences in 1972, and received the Nobel Prize in Chemistry in 1984 for "his development of methodology for chemical synthesis on a solid matrix."

R. Bruce Merrifield passed away on May 14, 2006.

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## Scope and Contents

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The bulk of the collection documents R. Bruce Merrifield's tenure at the Rockefeller University, and includes biographical materials, correspondence, laboratory notes and notebooks, and manuscripts and reprints. The collection includes files related to some of Merrifield's students and colleagues, and includes a small portion of D. Wayne Woolley materials.

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## Arrangement

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The collection is arranged into seven distinct series based on subject matter and media:

Series 1, Biographical Materials

Series 2, Correspondence

Series 3, Subject Files

Series 4, Laboratory Files

Series 5, Manuscripts and Publications

Series 6, Talks, Trips, and Commitments

Series 7, Audio-Visual and Oversized

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## File Plan

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Former Classification: I 450 M552

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## Administrative Information

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### Publication Statement

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Sleepy Hollow 10591

[archive@rockarch.org](mailto:archive@rockarch.org)

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### Processing Information

Processing completed December 2016 by Bethany J. Antos.

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## Controlled Access Headings

- Peptides
- Proteins -- Synthesis
- Chemistry

## Collection Inventory

### Biographical Materials

#### Arrangement

Arranged alphabetically.

Title/Description	Instances	
Autobiography	box 1	folder 1-4
	box 2	folder 5-7
Autobiography, Last Typed Original	box 2	folder 8
Autobiography, Outline	box 3	folder 9
Autobiography, Revisions	box 3	folder 10
Autobiography, Seeman's Computer Printout that I Corrected and Sent Back, 1988 September 23	box 3	folder 11
Autobiography, Various Edited Versions by Seeman and Westheimer	box 3	folder 12
Bibliography	box 4	folder 13-14

#### Scope and Contents

Folder 14 includes: "Automated Solid Phase Synthesis of Thymosin" by Wang, Makofske, Bach, and Merrifield "The Mechanism of Thiolytic Removal of the Dithiasuccinoyl Amino Protecting Group" by Barany "Multi-Detachable Resin Supports for Solid Phase Fragment Synthesis" by Tam, Tjoeng, and Merrifield

Bibliography, 2002	box 4	folder 15
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"News and Notes"	box 6	folder 31
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### Scope and Contents

Includes: Press Conference Materials, "The Rockefeller University and Merck Sharp & Dohme Research Laboratories" Biography of Robert Bruce Merrifield Biography of Bernd Gutte Press Release, "First Total Synthesis of an Enzyme Announced Simultaneously by Rockefeller University and Merck Sharp & Dohme Laboratories Scientists" Press Release, "Background on Synthesis of Ribonuclease" Biography Brief on Dr. Ralph F. Hirschmann

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<u>Conditions Governing Access:</u>		
<b>Conditions Governing Access</b>		
Folder restricted - contains closed materials.		
Robinson	box 33	folder 253-254
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via the CXCR4 Co-Receptor" by Donzella, Schols, Lin, Esté, Nagashima, Maddon, Allaway, Sakmar, Henson, De Clercq, and Moore "Rhodopsin: A Prototypical G Protein-Coupled Receptor" by Sakmar "Amino-Terminal Substitutions in the CCR5 Coreceptor Impair gp120 Binding and Human Immunodeficiency Virus Type 1 Entry" by Dragic, Trkola, Lin, Nagashima, Kajumo, Zhao, Olson, Wu, Mackay, Allaway, Sakmar, Moore, and Maddon "Role of the C9 Methyl Group in Rhodopsin Activation: Characterization of Mutant Opsins with the Artificial Chromophore 11-cis-9-Demethylretinal" by Han, Groesbeek, Smith, and Sakmar "Tinkering with Enzymes: What Are We Learning?" by Knowles "Cleavage and Deprotection of MBHA-Resin Peptides with Hydrogen Bromide" by Wang, Wang, Hughes, Leopold, Wu, Tam, and Merrifield "Macromolecular Assemblage in the Design of a Synthetic AIDS Vaccine" by Deefort, Nardelli, Huang, Ho, and Tam "Characterization of Sulfated Glucuronic Acid Containing Glycolipids Reacting with IgM M-Proteins in Patients with Neuropathy" by Ariga, Kohriyama, Freddo, Latov, Saito, Kon, Ando, Suzuki, Hemling, Rinehart, Jr., Kusunoki, and Yu "Molecular Cloning, Sequencing, and Expression of an  $\alpha_2$ -Adrenergic Receptor Complementary DNA from Rat Brain" by Chalberg, Duda, Rhine, and Sharma "Protein Structure Determination in Solution by Nuclear Magnetic Resonance Spectroscopy" by Wüthrich "Voltage Gating of Conductance in Lipid Bilayers Induced by Porin from Outer Membrane of *Neisseria gonorrhoeae*" by Mauro, Blake, and Labarca "Automated Solid-Phase Peptide Synthesis" by Erickson, Lukas, and Prystowsky "Challenging the Three-Dimensional Structure of Ribosomes" by Yonath and Wittmann "The Allosteric Three-Site Model for the Ribosomal Elongation Cycle: Features and Future" by Nierhaus "Effect of Nucleotide Substitution on the Peptidyltransferase Activity of 2'(3')-O-(Aminoacyl) Oligonucleotides" by Tezuka and Chl#dek "Combined Solid Phase/Solution Synthesis of a 31-Residue Vasoactive Intestinal Peptide Analog" by Felix, Zhao, Lambros, Ahmad, Liu, Daniewski, Michalewsky, and Heimer "Novel Amine Chemistry Based on DMAP-Catalyzed Acylation" by Ragnarsson and Grehn "SPOCC: A Resin for Solid Phase Organic Chemistry and Enzymatic Reactions on Solid Phase" by Rademann, Grötli, Melsal, and Bock "Expressed Protein Ligation: A General Method for Protein Engineering" by Muir, Sondhi, and Cole "Solution Structures of Fc $\gamma$ RI  $\gamma$ -Chain Mimics: A  $\gamma$ -hairpin Peptide and Its Retroenantiomer" by McDonnell, Fushman, Cahill, Sutton, and Cowburn "Cyclic Peptides from Linear Unprotected Peptide Precursors through Thiazolidine Formation" by Botti, Pallin, and Tam "Potent, Long-Acting Bradykinin Antagonists for a Wide Range of Applications" by Stewart, Gera, Chan, Whalley, Hanson, and Zuzack "Synthesis and Expression of Synthetic Genes: Applications to Structure-Function Studies of Receptors" by Carruthers and Sakmar "Characterization of Rhodopsin Mutants that Bind Transducin but Fail to Induce GTP Nucleotide Uptake" by Ernst, Hofmann, and Sakmar

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Akaji, Sakurai, Nomizu, Mizuta, Aono, Moriga, Inoue, Hosotani, and Tobe "Synthesis of a Tripentacontapeptide with Epidermal Growth Factor Activity" by Akaji, Fujii, Yajima, Hayashi, Mizuta, Aono, and Moriga "3-(3-p-Methoxybenzylthiopropionyl)-thiazolidine-2-thione and Its Analogs as Reagents for the Introduction of the Mercapto Group into Peptides and Proteins" by Fujii, Akaji, Hayashi, and Yajima "Synthesis of the Protected Tetracosapeptide Corresponding to Positions 30-53 of Mouse Epidermal Growth Factor (EGF)" by Akaji, Fujii, and Yajima "Application of New Heterobifunctional Crosslinking Reagents for the Preparation of Neurokinin (A and B)-BSA (Bovine Serum Albumin) Conjugates" by Fujii, Hayashi, Katakura, Akaji, Yajima, Inouye, and Segawa "40 Years of Peptide Chemistry at a Max-Planck-Institute" by Wünsch "Human Immunoglobulin G1 Hinge Region: Synthesis of Related Peptides and Their Conformational Features" by Moroder, Bovermann, and Wünsch "A New Reagent for the Preparation of Glycoconjugates" by Moroder "Stimulation of Guanylate Cyclase Activity by Irreversible Binding of Atrial Natriuretic Peptide to Its Receptor" by Iwasa, Furuyama, Hayashi, and Ohnuma "The Polyamide Method of Solid Phase Peptide and Oligonucleotide Synthesis" by Atherton, Gait, Sheppard, and Williams ""New Procedures in Solid Phase Synthesis. Use of Fluorenylmethoxycarbonyl Amino-Acids for peptide Synthesis on Polydimethylacrylamide Supports in Stepwise and Fragment Condensation Strategies" by Atherton, Sheppard, and Williams "Chemical Synthesis of Peptides and Proteins" by Kent "Structure/Function Analysis of Synthetic/Recombinant Derivatives of Transforming Growth Factor-Alpha" by Defeo-Jones, Tai, Wgrzyn, Vuocolo, Vaker, Payne, Garsky, Oliff, and Riemen "Solid-Phase Synthesis of Porcine Carkiodilatin 88 (pCDD 88)" by Nokihara and Semba "Regiospecific Synthesis of #-Hydroxybutenolide. Photosensitized Oxygenation of Substituted 2-Trimethylsilylfuran" by Katsumura, Hori, Fujiwara, and Isoe "The DNA Repair Gene RAD6 Encodes a Ubiquitin-Conjugating Enzyme" by Jentsch, McGrath, and Varshavsky "The Yeast Polyubiquitin Gene is Essential for Resistance to High Temperatures, Starvation, and Other Stresses" by Finley, Özkaynak, and Varshavsky "In Vivo Half-Life of a Protein is a Function of Its Amino-Terminal Residue" by Bachmair, Finley, and Varshavsky "The Yeast Ubiquitin Genes: A Family of Natural Gene Fusions" by Özkaynak, Finley, Solomon, and Varshavsky "Electrophoretic Assay for DNA-Binding Proteins" by Varshavsky "Post-Separation Detection of Nucleic Acids and Proteins by Neutron Activation" by Snapka, Kwok, Bernard, Harling, and Varshavsky "Enhancement of Immunoblot Sensitivity by Heating of Hydrated Filters" by Swerdlow, Finley, and Varshavsky

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 "Symmetrical Anhydride Rearrangement Leads to Three Different Dipeptide Products" by Benoiton and Chen  
 "High-Performance Liquid Chromatography of Epimeric N-protected Peptide Acids and Esters for Assessing Racemization" by Benoiton, Lee, Liberek, Steinauer, and Chen  
 "<sup>1</sup>H n.m.r. Long-Range Coupling in 2,4-Disubstituted-5(4H)-oxazolones and 4-Alkyl-5(2H)-oxazolones Generated Therefrom by the Action of Triethylamine" by Chen and Benoiton  
 "Mixed Carboxylic-Carbonic Acid Anhydrides of Acylamino Acids and Peptides as a Convenient Source of 2,4-dialkyl-5(4H)-oxazolones" by Chen, Slebioda, and Benoiton  
 "Racemization of Acylamino Acids and the Carboxy-terminal Residue of Peptides" by Chen and Benoiton  
 "Racemization during Aminolysis of Mixed and Symmetrical Anhydrides of N-Alkoxy-carbonylamino Acids by Amino Acid Anions in Aqueous Dimethylformamide" by Benoiton, Lee, and Chen  
 "Isopropyl Chloroformate as a Superior Reagent for Mixed Anhydride Generation and Couplings in Peptide Synthesis" by Benoiton, Lee, and Chen  
 "A New Segment Synthesis of #-Inhibin-92 by the Acyl Disulfide Method" by Yamashiro and Li

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Folder restricted - contains closed materials.

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<b>Scope and Contents</b> <p>Najjar Nardelli Ng</p>		
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Unson

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Vizioli Volin Voss Vunnam

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Yang Ye Yoo Yoshida

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Zhang Zhao

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Bo	box 301	folder 1882
Boffa, Carpaneto, and Allfrey, PNAS	box 301	folder 1883
Boffa et al., PNAS	box 301	folder 1884
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C&E News Articles	box 302	folder 1888
C Gen , 1971	box 302	folder 1889
CA-Me Hybrids, Old Copies, Wade	box 302	folder 1890
"The Calcium Binding Protein of the Chick Chorioallantoic Membrane" by Tuan	box 302	folder 1891



Cecille's Glucagon-NMR Project	box 302	folder 1892
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Cecropin (partial), 1984	box 303	folder 1894
Cecropin A (1-33) Artwork	box 303	folder 1895
"The Chemical Structure and Biological Activities of Concanavalin A" by Wang, 1973	box 303	folder 1896
"The Chemical Synthesis of Model Catalysts Related to Enzymes" by Hershey, 1963	box 303	folder 1897
"The Chemical Synthesis of Peptides: A Select Bibliography", 2000	box 303	folder 1898
Chemistry Notes, Papers, for the Proteomic and Innate Ab Problems	box 303	folder 1899
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"Chlorotrimethylsilane-Phenol for Selective Deprotection of the N <sup>ε</sup> -tert- Butyloxycarbonyl Group in Solid Phase Peptide Synthesis" by Kaiser et al., Draft	box 303	folder 1901
Christensen	box 303	folder 1902
"Chromatography, A Century of Discovery, 1900-2000," edited by Gehrke, Wixom, and Bayer	box 304	folder 1903
Cited AB Reprints	box 304	folder 1904
"Citryl Phosphate and the Mechanism of the Citrate Cleavage Reaction" by Walsh, 1969	box 304	folder 1905
Commitments, 1984 June	box 304	folder 1906
Comp Graphics	box 304	folder 1907
"Comparative Biochemistry of Drug-Binding Proteins in the Calmodulin/S100 Family" by Marshak, 1983	box 305	folder 1908
"Competitive Inhibition of a Strepogenin-Active Peptide by Related Peptides" by Merrifield	box 305	folder 1909
"The Concept and Early Development of Solid Phase Peptide Synthesis" by Merrifield	box 305	folder 1910
The Concept and Early Development of Solid Phase Peptide Synthesis Master File, Copy of Corrected Page Proofs, 1993	box 305	folder 1911
"Conformational Studies of the Peptide Antibiotic Polymyxin B by Nuclear Magnetic Resonance" by Bockman, 1971	box 305	folder 1912
"Convergent Synthesis of Dolastatin 15 by Solid Phase Coupling of N-methylamino Acid" by Akaji et al.	box 306	folder 1913
COOH-Terminal Peptides	box 306	folder 1914
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	box 306	folder 1915
Copy 3, Illustrations	box 306	folder 1916
"Couplage Covalent Reversible de la Daunorubicine et de la Primaquine a des Proteines: Application a une Chimiotherapie plus Selective du Cancer et de la Malaria" by Masquelier, 1981	box 306	folder 1917
Cowburn and Muir	box 306	folder 1918
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Cypress, Unson, Sakmar, 1999	box 307	folder 1920
Disk	box 307	folder 1920
Defoort, PNAS	box 307	folder 1921
Defoort, PNAS	box 307	folder 1921A
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De Novo	box 307	folder 1922
"Detection of a Peptide Epitope of the MUC2 Tandem Repeat with a Mouse Monoclonal Antibody" by Gambus et al.	box 307	folder 1923
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"The Determination of a Proline in Protein Hydrolysates with Lactobacillus Brevis" by Dunn, McClure, and Merrifield, 1948	box 307	folder 1925
"Developing Models and Methods to Study DNA-Protein Noncovalent Binding Interactions" by Walters	box 307	folder 1926
"Dielectric Properties of Proteins" by Kirschner, 1967	box 307	folder 1927
Don't Use - Beckman Symposium, 1985	box 307	folder 1928
Draft for Kinetics, 1985 February 20	box 307	folder 1929
Drafts of Papers II and III	box 307	folder 1930

Durrah, Tracy L., Protocols for Assays	box 308	folder 1930
Early Drafts	box 308	folder 1932
Engelhard	box 308	folder 1933
Engelhard	box 308	folder 1933A
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Epand, PNAS	box 308	folder 1934
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Erickson, Bruce W.	box 308	folder 1935-1936
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Erickson Reprints	box 309	folder 1938
"Experiments on the Synthesis and Spectral Characterization of Cytochrome-Related Molecules" by Robinson, 1967	box 309	folder 1939
Extra Figures and Tables	box 309	folder 1940
Extra Xeroxes of Photos and Figures	box 309	folder 1941
Fahmy et al., PNAS	box 310	folder 1942
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Fehlbaum	box 310	folder 1943
Felix Manuscript, Azides	box 310	folder 1944
Figures	box 310	folder 1945
Figures and Tables and Slides	box 310	folder 1946
Fox, "Immunoabsorbent Columns: Preparation and Use"	box 310	folder 1947
Furlong	box 310	folder 1948
Galley Proofs	box 310	folder 1949
Gastrinl, Tam	box 311	folder 1950

Glass, PNAS	box 311	folder 1951
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GB-RBM (George Barany and R. Bruce Merrifield, "Solid-Phase Peptide Synthesis"), 1979	box 311	folder 1952
Glass Thesis	box 311	folder 1953
Glucagon	box 311	folder 1954
Glucagon Antagonists, China	box 312	folder 1955
Glucagon Citations, SciFinder Scholar	box 312	folder 1956
Glucagon Conformation	box 312	folder 1957
Glucagon Paper, Unson and Mojsov	box 312	folder 1958
Glucagon Photographs	box 312	folder 1959
Glucagon Project	box 312	folder 1960
Glucagon Receptor Activates Extracellular	box 312	folder 1961
Glucagon References	box 313	folder 1962
Glucagon References Conformation II	box 313	folder 1963
Glucagon References NMR II	box 313	folder 1964
Glucagon Reprints	box 313	folder 1965-1966
Glucagon Reprints, 1981-1983	box 313	folder 1967
Glucagon Report, Murphy	box 313	folder 1968
Glucagon Review	box 314	folder 1969
Glycolaldehyde for PNAS, Acharya and Manning	box 314	folder 1970
Glycolaldehyde for PNAS, Acharya and Manning	box 314	folder 1970A
Glycyl-L-aspartyl-L-seryl-glycine	box 314	folder 1971
Gund, Semisynthesis, PNAS	box 314	folder 1972
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Gutte and Merrifield, Ribonuclease A	box 314	folder 1973

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Harvey Lecture	box 314	folder 1975
Heath, William F., Jr., Thesis, "A Synthetic Approach to the Structure-Function Relationships in the Murine Epidermal Growth Factor Molecule", 1986	box 315	folder 1976
"High Strepogenin Potency of Synthetic Oxytocin and of Purified Vasopressin" by Woolley and Merrifield	box 315	folder 1977
Histone Drafts	box 315	folder 1978
"The History of Peptide Chemistry"	box 315	folder 1979
"The History of Protein Synthesis"	box 315	folder 1980
	box 316	folder 1981-1984
	box 317	folder 1985
"The History of Protein Synthesis," Drafts	box 317	folder 1986-1987
Hoffman, PNAS	box 317	folder 1988
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Immunology - Old Version ("Specificity of Antibodies Elicited by a Synthetic Peptide having a Sequence in Common with a Fragment of a Virus Protein - the Hepatitis B Surface Antigen" by Neurath, Kent, and Strick	box 318	folder 1995
"Immunoprecipitation of Some Forms of Simian Virus 40 Large-T Antigen by Antibodies to Synthetic Peptides" by Paucha, Harvey, and Smith	box 318	folder 1996
"Improvements and Extensions of the Solid Phase Peptide Method" by A.R. Mitchell, 1973	box 318	folder 1997
"Inhibition of the Classical Complement Pathway by Synthetic Peptides from the C#2 Domain of Immunoglobulin G" by Prystowsky, 1978	box 318	folder 1998-1999
"Innate Antibody Project"	box 318	folder 2000
Insulin	box 319	folder 2001
Insulin, Katsoyannis	box 319	folder 2002
Insulin, Zahn	box 319	folder 2003
"Investigations of Amino Acids, Peptides, and Proteins" (XIX-XXVIII)	box 319	folder 2004
Interferon Abstract, Heidelberg	box 319	folder 2005
Intra-Science	box 319	folder 2006
"Isolation and Determination of Structure of a Peptide with Strepogenin Activity"	box 319	folder 2007
"The Isolation and Determination of Structure of Peptides with Strepogenin Activity I. Serylhistidylleucylvalylglutamic Acid and Serylhistidylleucylvalylglutamylalanylleucine from Insulin" by Merrifield and Woolley	box 319	folder 2008
The Isolation of A and B Chain Sulfonates of Insulin by Countercurrent Distribution	box 319	folder 2009
J	box 319	folder 2010
Jennings and Kemp, PNAS	box 319	folder 2011
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Kaiser, Emil, 1984 October 2	box 321	folder 2023
Kaiser, Emil, CTMS (Chlorotrimethylsilane) New Data, 1987 November 9	box 322	folder 2024
Kaiser Manuscript ("Chlorotrimethylsilane-Phenol as a Selective Deprotection Reagent for the N <sup>#</sup> -Butyloxycarbonyl Group in Solid Phase Peptide Synthesis")	box 322	folder 2025
Kaiser Reprints	box 322	folder 2026
Kaiser Silanolate	box 322	folder 2027
Katsoyannis, PNAS	box 322	folder 2028
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Ligation and Fragment Synthesis, VI A1#D.5	box 324	folder 2041
"Lithium-Salt Effects in Peptide Synthesis, Park II" by Thaler, Seebach, and Cardinaux	box 324	folder 2042
Live, David - NMR - Resin Proposal	box 324	folder 2043
"Local Sequence and Folding: The #-Turn as a Role Model" by Rotondi, 2002	box 324	folder 2044
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Merrifield, R.B., "History of Protein Synthesis," Thieme Materials	box 326	folder 2052
Microbiological Publications of M.S. Dunn	box 326	folder 2053
Mitsuya and Tager, PNAS	box 326	folder 2054
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"Molecular Determinants of Glucagon Receptor Signaling" by Cecilia G. Unson	box 326	folder 2057
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N	box 326	folder 2059
National Institute of General Medical Sciences, 1969	box 327	folder 2060
NGF (Nerve Growth Factor) Paper	box 327	folder 2061
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"A New Sulfur Heterocycle for Amino Group Protection in Peptide Synthesis" by Barany, 1977	box 327	folder 2064-2065
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	box 329	folder 2071-2075
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	box 331	folder 2082-2087
	box 332	folder 2088
Notecards and Notes	box 332	folder 2089
"A Novel Synthetic Study of the Role of Arginine in the Bee Venom Neurotoxin, Apamin" by Cosand, 1976	box 332	folder 2090
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"O-Glycopeptide Analogues of Enkephalin: Fmoc-Amino Acid Glycoside Synthesis, Solid-Phase Glycopeptide Synthesis and Optimizations, and Pharmacology" by Mitchell, 1999	box 333	folder 2092
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Our Cecropin Papers (Merrifield), 1982-1996	box 335	folder 2098
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"Peptides 1988," Proceedings of the 20th European Peptide Symposium	box 337	folder 2113
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Peptides: Synthesis and Applications, edited by B. Gutte	box 337	folder 2115
Peptides: Synthesis and Applications, Chapter 2/3, "Solid Phase Peptide Synthesis" by Merrifield	box 337 box 338	folder 2116 folder 2117-2118
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"Preparation of a Tertiaryalkyloxycarbonylhydrazide Resin and Its Application to Solid Phase Peptide Synthesis" by Wang and Merrifield	box 339	folder 2124
"Preparation of Some New Biphenylisopropylloxycarbonyl Amino Acids and their Application to the Solid Phase Synthesis of a Tryptophan-Containing Heptapeptide" by Wang and Merrifield	box 339	folder 2125
"Probing the Functional Conformation of the Neuropeptide CGRP (Calcitonin Gene-Related Peptide)" by Lynch, 1989	box 339	folder 2126
"Profiles and Pathways in Organic Chemistry" Outline and Notes	box 339	folder 2127
"Purificação, Sequenciamento, Síntese e Caracterização Farmacológica Parcial de um Pentadecapeptídeo Presente na Albumina do Rato" by Izumi, 1992	box 339	folder 2128
References	box 339	folder 2129
References and Notes ("Solid Phase Peptide Synthesis")	box 339	folder 2130

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References for The History of Protein Syntheses, VG Phosphopeptides	box 340	folder 2132
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References for The History of Protein Syntheses, Papers Already Used	box 340	folder 2134
References for The History of Protein Syntheses, Sakakibara	box 340	folder 2135
References for The History of Protein Syntheses, Unlabeled Folder	box 340	folder 2136-2137
	box 341	folder 2138-2141
	box 342	folder 2142
References/Reviews To Be Used: Chronological	box 342	folder 2143
"The Relation of Predicted Structure to Observed Conformation and Activity of Glucagon Analogs Containing Replacements at Positions 19, 22, and 23" by Merrifield et al.	box 342	folder 2144
"Relationships between Structure and Biological Function in Analogs of RNase A-Peptide" by Levitt, 1972	box 342	folder 2145
Reprints	box 342	folder 2146-2147
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Reprints by Unson, Woolley	box 346	folder 2166
Reprints and Manuals	box 346	folder 2167
"Retro and Retroenantio Analogs of Cecropin-Melittin Hybrids" by Merrifield et al.	box 346	folder 2168
Retro Papers	box 346	folder 2169
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Rodman, PNAS	box 347	folder 2171
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Sakmar, Thomas P. et al., "Tyrosine Sulfation of CCR5 N-Terminal Peptide by Tyrosylprotein Sulfotransferases 1 and 2 Follows a Discrete Pattern and Temporal Sequence"	box 349	folder 2179
Salmon, PNAS	box 349	folder 2180
Salmon, PNAS	box 349	folder 2180A
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Sapse, Anne-Marie	box 349	folder 2182
Sardana, Mohinder K.	box 349	folder 2183
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Sehgal	box 350	folder 2190
Sehgal, #2 Interferon Publications	box 350	folder 2191
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Selected Recent Reprints of Professor George Barany	box 351	folder 2193
"Selective Deprotection of the N <sup>#</sup> -tert-Butyloxycarbonyl Group in Solid Phase Peptide Synthesis with Chlorotrimethylsilane in Phenol" by Kaiser et al., Old Version	box 351	folder 2194
"Semisynthetic Peptides and Proteins," Chaiken	box 351	folder 2195
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Solid Phase Peptide Synthesis Bibliography, 1-100	box 353	folder 2208
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Solid Phase Peptide Synthesis Biology	box 353	folder 2210
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"Solid Phase Peptide Synthesis," Erickson	box 353	folder 2212
"Solid Phase Peptide Synthesis" by Erickson and Merrifield	box 354	folder 2213
"Solid Phase Peptide Synthesis" by Erickson and Merrifield, 1974	box 354	folder 2214
"Solid Phase Peptide Synthesis" by Merrifield	box 355	folder 2215
"Solid Phase Peptide Synthesis: New Chemistry and New Directions" by Bruce Merrifield	box 355	folder 2216
"Solid Phase Peptide Synthesis" Review	box 355	folder 2217
"Solid Phase Precipitation and Extraction (SPPE), a New Separation Process applied to the Isolation of Synthetic Peptides" by Bonner et al.	box 355	folder 2218
"Solid Phase Synthesis of the Cyclo-Dodecadepsipeptide Valinomycin" by Gisin, Merrifield, and Tosteson	box 355	folder 2219
"Solid Phase Synthesis: The Use of Solid Supports and Insoluble Reagents in Peptide Synthesis (Chapter 3)"	box 355	folder 2220
"The Solution Conformation of Oxytocin" by Fischman, 1978	box 356	folder 2221
"The Solution Photochemistry of Simple Cyclopentenones" by Smith, 1972	box 356	folder 2222
"Some New Aspects of the Relationship of Chemical Structure to Biological Activity" by D.W. Woolley, 1944	box 356	folder 2223
"The Specific Carboxymethylation of the Amino Groups of Human Hemoglobin: Structural and Functional Implications" by Fantl, 1985	box 356	folder 2224
"Specificity and Neutralizing Capacity of Antibodies Elicited by a Synthetic Peptide of Scorpion Toxin" by Van Rietschoten et al., PNAS	box 356	folder 2225

"Specificity and Neutralizing Capacity of Antibodies Elicited by a Synthetic Peptide of Scorpion Toxin" by Van Rietschoten et al., PNAS	box 356	folder 2225A
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"SPPS: Solid Phase Peptide Synthesis" by Stewart and Young	box 358	folder 2233
Stenflo	box 358	folder 2234
Stewart, John Morrow	box 358	folder 2235
Stewart and Young, 2nd Edition	box 359	folder 2236
Stoffel, PNAS	box 359	folder 2237
"Strepogenin Activity of Synthetic Peptides Related to Oxytocin" by Merrifield et al.	box 359	folder 2238
"Structure-Function Studies on the ACTH Family of Hormones" by Draper, 1974	box 359	folder 2239-2240
"Studies on Solid-Phase Peptide Synthesis" by Marshall, 1966	box 359	folder 2241
"Studies on Solid-Phase Peptide Synthesis: The Synthesis of Glucagon" by Mojsov, 1978	box 360	folder 2242
"Studies on the Reaction Mechanism of the Catalytic Subunit of Calf Thymus Cyclic AMP-Dependent Protein Kinase Using Synthetic Polypeptide Substrates" by Pomerantz	box 360	folder 2243
"Studies on the Synthesis of Insulin by the Solid Phase Method" by Marglin, 1972	box 360	folder 2244-2245
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"Studies on Von Willebrand Factor in Plasma and Urine, in Health and Disease" by Silveira, 1990	box 361	folder 2247
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