



# 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

Rockefeller Archive Center

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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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<b>Conditions Governing Access</b>		
Folder restricted - contains closed materials.		
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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-Protins 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#RI #-Chain Mimics: A #-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  
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Folder restricted - contains closed materials.

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Conditions Governing Access:**Conditions Governing Access**

Folder restricted - contains closed materials.

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Zhang Zhao

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C Gen , 1971	box 302	folder 1889
CA-Me Hybrids, Old Copies, Wade	box 302	folder 1890
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Cecille's Glucagon-NMR Project	box 302	folder 1892
Cecropin ("Synthesis of the Antibacterial Peptide Cecropin A (1-33)")	box 303	folder 1983
Cecropin (partial), 1984	box 303	folder 1894
Cecropin A (1-33) Artwork	box 303	folder 1895
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"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
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"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
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"Conformational Studies of the Peptide Antibiotic Polymyxin B by Nuclear Magnetic Resonance" by Bockman, 1971	box 305	folder 1912
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Cruciani, PNAS	box 306	folder 1919
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Cypress, Unson, Sakmar, 1999	box 307	folder 1920
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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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Epand, PNAS	box 308	folder 1934
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Erickson, Bruce W.	box 308	folder 1935-1936
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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
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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
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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
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Glucagon Reprints	box 313	folder 1965-1966
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"The History of Peptide Chemistry"	box 315	folder 1979
"The History of Protein Synthesis"	box 315	folder 1980
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"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
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Insulin, Katsoyannis	box 319	folder 2002
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Kaiser Reprints	box 322	folder 2026
Kaiser Silanolate	box 322	folder 2027
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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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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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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 332	folder 2088
Notecards and Notes	box 332	folder 2089
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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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"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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	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
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Reprints by Unson, Woolley	box 346	folder 2166
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"Retro and Retroenantio Analogs of Cecropin-Melittin Hybrids" by Merrifield et al.	box 346	folder 2168
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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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Sarin, Synthetic Efficiency	box 349	folder 2184
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"Semisynthetic Peptides and Proteins," Chaiken	box 351	folder 2195
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Solid Phase Peptide Synthesis Chemistry	box 353	folder 2211
"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
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"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

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"SPPS: Solid Phase Peptide Synthesis" by Stewart and Young	box 358	folder 2233
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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
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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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