



Merrifield (R. Bruce) papers

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English

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Rockefeller Archive Center

15 Dayton Avenue

Sleepy Hollow 10591

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Summary Information

Repository:	Rockefeller Archive Center
Creator - aut:	Merrifield, Bruce (Robert Bruce)
Title:	R. Bruce Merrifield papers, Rockefeller University Faculty
ID:	FA415
Date [inclusive]:	1935-2009
Physical Description:	182 Cubic Feet 411 document boxes
Language of the Material:	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

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

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

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

Former Classification: I 450 M552

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Administrative Information

Publication Statement

Rockefeller Archive Center

15 Dayton Avenue

Sleepy Hollow 10591

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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

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Arranged alphabetically.

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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
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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

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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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Vizioli Volin Voss Vunnam

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Conditions Governing Access:**Conditions Governing Access**

Folder restricted - contains closed materials.

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Wong Wood Woolley Wu

box 157

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box 157

folder 1045A

Conditions Governing Access:**Conditions Governing Access**

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Scope and Contents

Yang Ye Yoo Yoshida

Personnel Files, Y

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folder 1046A

Conditions Governing Access:**Conditions Governing Access**

Folder restricted - contains closed materials.

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Scope and Contents

Zhang Zhao

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