



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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Synthesis of Cystine-Peptide” by Akaji, Tatsumi, Yoshida, Kimura, Fujiwara, and Kiso “Synthesis and Biological Activities of Atrial Natriuretic Polypeptide Analogs” by Kiso, Shimokura, Hosoi, Fujisaki, Fujiwara, and Yoshida “Synthesis and Characterization of Bivalent Peptide Ligands Targeted to G-Protein-Coupled Receptors” by Carrithers and Lerner “Quantitative Analysis of Amino Acids on Merrifield Resin by Microwave Hydrolysis” by Yu, Chen, Chiou, and Wang “The Four-Component Condensation (4CC): A New Versatile Method for the Synthesis of Substituted Prolyl Peptides” by Nutt and Joulle [Reprint in Russian, “#####

#####”] A Micromethod for Complete Removal of Dodecyl Sulfate from Proteins by Ion-Pair Extraction” by Henderson, Oroszlan, and Konigsberg “An Amphiphilic Structure of the Ninth Component of Human Complement: Evidence from Analysis of Fragments Produced by #-Thrombin” by Biesecker, Gerard, and Hugli “Accelerated Chemical Synthesis of Peptides and Small Proteins” by Miranda and Alewood “Antimetabolites: A Review” by Shaw “Incorporation of Glutamine Repeats Makes Protein Oligomerize: Implications for Neurodegenerative Diseases” by Stott, Blackburn, Butler, and Perutz “Solvent and Reagent Accessibility within Oligo(ethyleneglycol) Cross-linked Polystyrene Beads” by Wilson, Paech, Zhou, and Kurth “Diversomer Libraries: An Approach to Non-Peptide, Non-Oligomeric Chemical Diversity” by Dewitt, Kiely, Stankovic, Schroeder, Cody, and Pavia “Purification and Characterization of a Novel Zinc-Proteinase from Cultures of Aeromonas hydrophila” by Loewy, Santer, Wiczorek, Blodgett, Jones, and Cheronis “Solid Phase Peptide Synthesis” by Sheppard “Total Chemical Synthesis of Human Activin #A [12-116] and Related Large Loop Polypeptides” by Deah, Allen, Clay, Warner, and Hearn “Antibody Remodeling: A General Solution to the Design of a Metal-Coordination Site in an Antibody Binding Pocket” by Roberts, Iverson, Iverson, Benkovic, Lerner, Getzoff, and Tainer “Mutation of a Conserved Cysteine in the X-Linked Cone Opsins Causes Color Vision Deficiencies by Disrupting Protein Folding and Stability” by Kazmi, Sakmar, and Ostrer “Time-Resolved Spectroscopy of the Early Photolysis Intermediates of Rhodopsin Schiff Base Counterion Mutants” by Jäger, Lewis, Zvyaga, Szundi, Sakmar, and Kliger “The Steric Trigger in Rhodopsin Activation” by Shieh, Han, Sakmar, and Smith “Chromophore Structural Changes in Rhodopsin from Nanoseconds to Microseconds Following Pigment Photolysis” by Jäger, Lewis, Zvyaga, Szundi, and Sakmar “Partial Agonist Activity of 11-cis-Retinal in Rhodopsin Mutants” by Han, Lou, Nakanishi, Sakmar, and Smith “Properties of Early Photolysis Intermediates of Rhodopsin are Affected by Glycine 121 and Phenylalanine 261” by Jäger, Han, Lewis, Szundi, Sakmar, and Kliger “The C9 Methyl Group of Retinal Interacts with Glycine-121 in Rhodopsin” by Han, Groesbeek, Sakmar, and Smith “AMD3100, A Small Molecule Inhibitor of HIV-1 Entry

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 α_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

“Photoactivated State of Rhodopsin and How It Can Form” by Fahmy, Siebert, and Sakmar “Characterization of Deletion and Truncation Mutants of the Rat Glucagon Receptor” by Unson, Cypess, Kim, Goldsmith, Carruthers, Merrifield, and Sakmar “Properties and Photoactivity of Rhodopsin Mutants” by Sakmar and Fahmy “Antibodies against Specific Extracellular Epitopes of the Glucagon Receptor Block Glucagon Binding” by Unson, Cypess, Wu, Goldsmith, Merrifield, and Sakmar “Characterization of the Mutant Visual Pigment Responsible for Congenital Night Blindness: A Biochemical and Fourier-Transform Infrared Spectroscopy Study” by Zvyaga, Fahmy, Siebert, and Sakmar “Specific Tryptophan UV-Absorbance Changes are Probes of the Transition of Rhodopsin to Its Active State” by Lin and Sakmar “The Effects of Amino Acid Replacements of Glycine 121 on Transmembrane Helix 3 of Rhodopsin” by Han, Lin, Smith, and Sakmar “Functional Interaction of Transmembrane Helices 3 and 6 in Rhodopsin” by Han, Lin, Minkova, Smith, and Sakmar “Spectroscopic Evidence for Altered Chromophore-Protein Interactions in Low-Temperature Photoproducts of the Visual Pigment Responsible for Congenital Night Blindness” by Fahmy, Zvyaga, Sakmar, and Siebert “Rhodopsin Activation Blocked by Metal-Ion-Binding Sites Linking Transmembrane Helices C and F” by Sheikh, Zvyaga, Lichtarge, Sakmar, and Bourne “The Chemist’s Magic Bullets: Selectivity as a Guiding Principle in Biomedical Research” by Witkop “Reproductive Endocrine and Endometrial Effects of Raloxifene Hydrochloride, a Selective Estrogen Receptor Modulator, in Women with Regular Menstrual Cycles” by Baker, Draper, Paul, Allerheiligen, Grant, Shifren, and Jaffe “A Controlled Trial of Raloxifene (LY139481) HCl: Impact on Bone Turnover and Serum Lipid Profile in Healthy Postmenopausal Women” by Draper, Flowers, Huster, Neild, Harper, and Arnaud “Selective Estrogen Receptor Modulators and Postmenopausal Women’s Health” by Hol, Cox, Bryant, and Draper “Effects of Raloxifene on Bone Mineral Density, Serum Cholesterol Concentrations, and Uterine Endometrium in Postmenopausal Women” by Delmas, Bjarnason, Mitlak, Ravoux, Shah, Huster, Draper, and Christiansen “Raloxifene and Estrogen: Comparative Bone-Remodeling Kinetics” by Heaney and Draper “Effects of Raloxifene Hydrochloride on the Endometrium of Postmenopausal Women” by Boss, Huster, Neild, Glant, Eisenhut, and Draper “Secondary Structures of Proteins and Peptides in Amphiphilic Environments (A Review)” by Kaiser and Kézdy “Inhibition of the N-end Rule Pathway in Living Cells” by Baker and Varshavsky

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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 Atheron, 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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 "Synthetic Peptide Antagonists of Glucagon" by Unson, Andreu, Gurzenda, and Merrifield
 "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
 "¹H 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, Slebiada, 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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Galantino Galardy Gisin Goissis Gurzenda Gutte		
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Hampton Haser Hew Holm Huang, L. Huang, W.		
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Scope and Contents Isaac Isied Iwasa Izumi		
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Personnel Files, L	box 153	folder 1023-1025
Scope and Contents <p>Levine Levit Lewis Li Lin Lindsey Liu, C. Liu, W. Loudon Lu, G. Lu, W.</p>		
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Personnel Files, M	box 153	folder 1026
Scope and Contents <p>box 154 folder 1027-1030</p> <p>Macauley Macdonald McNichol Makov Marglin Marshall Martin Meyer-Glauner Miller Mitchell Murphy</p>		
Personnel Files, M	box 154	folder 1030A
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Scope and Contents <p>Najjar Nardelli Ng</p>		
Personnel Files, N	box 155	folder 1031A
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Unson

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Vizioli Volin Voss Vunnam

Personnel Files, V

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Conditions Governing Access:**Conditions Governing Access**

Folder restricted - contains closed materials.

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1041-1043**Scope and Contents**Waase Wang, C. Wang, D. Wang, S. Weinberg Whitney
Wong Wood Woolley Wu

box 157

folder
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Personnel Files, W

box 157

folder 1045A

Conditions Governing Access:**Conditions Governing Access**

Folder restricted - contains closed materials.

Personnel Files, Y

box 157

folder 1046

Scope and Contents

Yang Ye Yoo Yoshida

Personnel Files, Y

box 157

folder 1046A

Conditions Governing Access:**Conditions Governing Access**

Folder restricted - contains closed materials.

Personnel Files, Z

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Zhang Zhao

Personnel Files, Z

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