1988 GORDON CONFERENCE ON PROTEINS

FINAL REPORT

JAN HERMANS

APRIL 1, 1990

Supported by

U.S. ARMY MEDICAL RESEARCH AND DEVELOPMENT COMMAND
Fort Detrick, Frederick, Maryland 21701-5012

Contract No. DAMD17-88-Z-8026

Gordon Research Center
University of Rhode Island
Kingston, RI 02881-0801

Approved for public release; distribution unlimited

The findings in this report are not be be construed as an official Department of the Army position unless so designated by other authorized documents.
**Title:** (Include Security Classification)  
(U) 1988 Gordon Conference on Proteins

### 11. TITLE (Include Security Classification)

**Personal Author(s):**

Jan Hermans

### 13a. TYPE OF REPORT

Final

### 13b. TIME COVERED

FROM 6/1/88 TO 5/31/89

### 14. DATE OF REPORT (Year, Month, Day)

1990 April 1

### 16. Supplementary Notation

### 17. COSATI CODES

<table>
<thead>
<tr>
<th>FIELD</th>
<th>GROUP</th>
<th>SUB-GROUP</th>
</tr>
</thead>
</table>

### 18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)

RA 1, Conference

### 19. ABSTRACT (Continue on reverse if necessary and identify by block number)

### 20. DISTRIBUTION/AVAILABILITY OF ABSTRACT

- [ ] UNCLASSIFIED//UNLIMITED  
- [ ] SAME AS RPT.  
- [ ] DTIC USERS

### 21. ABSTRACT SECURITY CLASSIFICATION

Unclassified

### 22a. NAME OF RESPONSIBLE INDIVIDUAL

Mary Frances Bostian

### 22b. TELEPHONE (Include Area Code)

301-663-7325

### 22c. OFFICE SYMBOL

SGRD-RMI-S
The Gordon Conference on "Proteins" was held from the 20th to the 24th of June, 1988 at Salve Regina College in Newport, Rhode Island. The conference had 103 participants; nine were from foreign countries. There was a good mixture of scientists from universities, national laboratories, and private industries. Many younger scientists, including graduate students and postdoctoral fellows, attended.

Several subjects related to structure and function of proteins were discussed in the sessions at this conference. Topics included: What Can Peptides Tell Us About Proteins (and Vice Versa)?, New Methods in Structure Determination; The Life and Death of a Protein, Serine Proteases, Paradigm Shifts, Holes and Loops in Proteins, Membrane Proteins and Receptors; and G Proteins. The Thursday evening slot was filled by Don Wiley, who spoke on structures of membrane proteins. There were thirty speakers and eight discussion leaders, and although the meeting as a whole seemed to go well, fewer talks, especially in the evening sessions, would be preferable. Nonetheless, there was ample discussion after each talk and in the free time. Questions posed of the speakers were generally penetrating and enhanced the scientific exchange appreciably.

While there were many outstanding talks and results presented, particularly significant were the successful design of proteins de novo, either as a linear chain (Lynn Regan's work) or in a "template-directed" manner (Manfred Mutter's work), the characterization of a domain of BPTI that mimics one of the folding intermediates of the whole protein (P. Kim), new methods including IR-CD (Keiderling), and new structures including a chemotactic protein (A. Stock) and a repressor-operator complex (Pabo). In the choice of topics for this meeting, a conscious effort was made to include more biological issues related to proteins, and this effort paid off in three very successful sessions: the in vivo story of protein folding and degradation (Fred Goldberg, discussion leader), membrane proteins and receptors (Catherine Strader, discussion leader), and G proteins (Irving Sigal, discussion leader).

Poster sessions were held every afternoon, with about 50 participants presenting work. The posters were mounted all week, giving ample time for everyone to see and discuss posters. Feedback from the poster sessions was uniformly enthusiastic.

Overall, response to this meeting has been very positive.
Proteins" Gordon Conference, June 20-24, 1988, Salve Regina College, Rhode Island
Lila Gierasch and Jan Hermans, Co-Chairs

Monday Morning: What can Peptides Tell us About Proteins (and Vice Versa)?

Peter Kim, MIT (Discussion Leader) "Synthetic Protein Folding Intermediate Analog Analogs"
Manfred Mutter, Basel "Construction of Artificial Proteins"
George Rose, Penn. State, Hershey "Helices in Peptides and Proteins"
Tom Alber, Univ. of Utah "Effects of Mutations on Protein Stability and Structure"

Monday Evening: New Methods in Structure Determination

Stan Opella, Univ. of Pennsylvania (Discussion Leader) "Solid State NMR"
Angela Gronenborn, NIH "2D and 3D NMR of Proteins"
Tim Keiderling, Univ. of Illinois, Chicago "Vibrational Circular Dichroism"
Elishe Haas, Weizmann Institute "Fluorescence Energy Transfer Studies of Protein Folding"

Tuesday Morning: The Life and Death of a Protein

Fred Goldberg, Harvard Medical (Discussion Leader) "ATP-Dependent Proteases"
Aaron Ciechanover, Technion-Israel Institute "Ubiquitin-Dependent Protein Breakdown"
Steve Clarke, UCLA "Repair Mechanisms for Aging Proteins"
Martin Eilers, UCSF "Protein Unfolding During Transport into Organelles"

Tuesday Evening: Serine Proteases

Jonathan Groer, Abbott (Discussion Leader) "Homology-Based Structure Prediction"
Robert Fletterick, UCSF "Enzyme Studies by Mutagenesis"
Arich Warshel, USC "Computer Simulation of Genetically-Modified Serine and Cysteine Proteases"
Mike James, Univ. of Alberta "Computer Modeling of Serine Proteases"

Wednesday Morning: Paradigm Shifts

C. Schutt, Princeton (Discussion Leader)
Anne Stock, Princeton "Structure of A Phosphorylated Response Regulator"
Lynne Regan, DuPont "A Helical Protein Designed from First Principles"
Maria Mas, Beckman Research Institute "Mutagenesis as a Probe of Functionally Important Conformational Changes"
Carl Pabo, Johns Hopkins "Structure of the Lambda Repressor-Operator Complex"
Philip Bryan, Genex "Analysis of an Engineered Thermally Stable Mutant of Subtilisin"

Wednesday Evening: Holes and Loops in Proteins

George Rose, Penn State, Hershey (Discussion Leader)
Jaque Fetrow, MIT "Loops in Globular Proteins"
Jay Forder, Yale "Tertiary Templates for Protein Design"
Bob Titton, Scripps "Cavities in Proteins by Gas Binding"
Tony Kossiakoff, Genentech "Solvent Structure in Natural and Engineered Cavities in Proteins"

Thursday Morning: Membrane Proteins and Receptors

Catherine Strader, Merck (Discussion Leader)
Michael Schimerlik, Oregon State "Muscarinic Acetylcholine Receptor"
Leland Ellis, UT "Structure-Function of Insulin Receptor"
Nigel Unwin, MRC "Receptors and Channels"
Catherine Strader, Merck "Structure-Function of β-Adrenergic Receptor"

Thursday Evening:

Business meeting
Don Wiley, Harvard "Recognition at Membrane Surfaces: Influenza Virus HA, Human HLA"

Friday Morning: G Proteins

Irving Sigal, Merck (Discussion Leader)
Frank Jurak, UC Riverside "Structural Studies of EF-Tu"
Susan Masters, UCSF "Mutation Analysis of G Proteins"
Abraham DeVos, UC Berkeley "The Structure of the ras Oncogene Protein"
Irving Sigal, Merck "Mutagenesis Studies of ras Protein"
<table>
<thead>
<tr>
<th>Name</th>
<th>Registration No.</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aisaka, Kazuo</td>
<td>101A</td>
<td>Beckman Research Institute, Division of Biology, 1450 E. Duarte Rd., Duarte, CA 91010</td>
</tr>
<tr>
<td>Canfield, Norman</td>
<td>106B</td>
<td>Lederle Laboratories, Bldg. 110, Room 614, North Middletown Rd., New York, NY 10965</td>
</tr>
<tr>
<td>Aisaka, Mrs. (wife)</td>
<td>101A</td>
<td></td>
</tr>
<tr>
<td>Chazin, Walter</td>
<td>107B</td>
<td>Research Institute of Scripps Clinic, Dept. of Molecular Biology (MB2), 10666 North Torrey Pines Rd., La Jolla, CA 92037</td>
</tr>
<tr>
<td>Aisaka, Son</td>
<td>101A</td>
<td></td>
</tr>
<tr>
<td>Chen, Shiuang</td>
<td>107B</td>
<td>Beckman Research Inst., of City of Hope, Division of Immunology, Duarte, CA 91010</td>
</tr>
<tr>
<td>Alber, Tom</td>
<td>103B</td>
<td>University of Utah School of Medicine, Dept. of Biochemistry, 50 North Medical Drive, Salt Lake City, UT 84132</td>
</tr>
<tr>
<td>Chlebowski, Jan</td>
<td>311B</td>
<td>Virginia Commonwealth University, Biochemistry Dept., 1102 East Marshall St., Richmond, VA 23298-0614</td>
</tr>
<tr>
<td>Briggs, Martha S.</td>
<td>207B</td>
<td>University of Pennsylvania, Dept. of Biochemistry &amp; Biophysics, Philadelphia, PA 19104-6059</td>
</tr>
<tr>
<td>Clarke, Neil</td>
<td>201B</td>
<td>Johns Hopkins Univ., School of Medicine, Dept. of Molecular Biology &amp; Genetics, Baltimore, MD 21205</td>
</tr>
<tr>
<td>Bright, Harold</td>
<td>310B</td>
<td>Office of Naval Research, Code 1141, MB, Biological Sciences Div., 800 North Quincy St., Arlington, VA 22217-5000</td>
</tr>
<tr>
<td>Clarke, Steven</td>
<td>313B</td>
<td>UCLA, Dept. of Chemistry, &amp; Biochemistry, Los Angeles, CA 90024-1569</td>
</tr>
<tr>
<td>Bryan, Philip</td>
<td>105B</td>
<td>Genex Corporation, 16020 Industrial Dr., Gaithersburg, MD 20877</td>
</tr>
<tr>
<td>Findeis, Mark A.</td>
<td>203B</td>
<td>Rockefeller University, Lab. Bioorganic Chemistry &amp; Biochemistry, 1230 York Ave., Box 113, New York, NY 10021</td>
</tr>
<tr>
<td>Bryant, Stephen H.</td>
<td>106B</td>
<td>Brookhaven National Lab., Protein Data Bank, Chemistry Dept., Upton, NY 11973</td>
</tr>
<tr>
<td>Hughson, Fred</td>
<td>211B</td>
<td>Stanford University Medical Center, Dept. of Biochemistry, Stanford, CA 94305</td>
</tr>
<tr>
<td>Campbell-Burk, Sharon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hunt, John</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dupont Expt. Station</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Registration List</td>
<td>Address</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dodson, M.L.</td>
<td>305A</td>
<td>Vanderbilt University Medical School Dept. of Biochemistry 21st Ave., &amp; Garland Nashville, TN 37232</td>
</tr>
<tr>
<td>Fetrow, Jacquelyn S.</td>
<td>205B</td>
<td>Whitehead Institute 9 Cambridge Center Cambridge, MA 02142</td>
</tr>
<tr>
<td>Fletterick, Robert</td>
<td>104A</td>
<td>University of California Dept. of Biochemistry San Francisco, CA 94143</td>
</tr>
<tr>
<td>Vanderfor, Jean</td>
<td>206B</td>
<td>University of Toronto Dept. of Medical Biophysics 500 Sherbourne St. Toronto, Ontario M4X 1K9 CANADA</td>
</tr>
<tr>
<td>Down, James</td>
<td>314B</td>
<td>Harvard University Biochemistry Box 95, Divinity Ave., Cambridge, MA 02138</td>
</tr>
<tr>
<td>Gariepy, Jean</td>
<td>207B</td>
<td>University of Texas Southwestern Medical Center Dept. of Pharmacology 5323 Harry Hines Blvd., Dallas, TX 75235-9041</td>
</tr>
<tr>
<td>Eigenbrot, Charles</td>
<td>202B</td>
<td>University of California Genetech/Biomolecular Chemistry 460 Pt. San Bruno Blvd. South San Francisco, CA 94080</td>
</tr>
<tr>
<td>Goldberg, Alfred L.</td>
<td>Non-Res.</td>
<td>Harvard Medical School Dept. of Cellular &amp; Molecular Phys. 240 Longwood Ave., Boston, MA 02115</td>
</tr>
<tr>
<td>Ellis, Leland</td>
<td>315B</td>
<td>Howard Hughes Medical Institute Dept. of Biochemistry 5323 Harry Hines Blvd. Dallas, TX 75235-9050</td>
</tr>
<tr>
<td>Gierasch, Lila</td>
<td>207B</td>
<td>University of San Francisco George Willam Hooper Foundation Visiting Scientist San Francisco, CA 94143</td>
</tr>
<tr>
<td>Ellis, Leland</td>
<td>315B</td>
<td>Howard Hughes Medical Institute Dept. of Biochemistry 5323 Harry Hines Blvd. Dallas, TX 75235-9050</td>
</tr>
<tr>
<td>Gariepy, Jean</td>
<td>206B</td>
<td>University of Toronto Dept. of Medical Biophysics 500 Sherbourne St. Toronto, Ontario M4X 1K9 CANADA</td>
</tr>
<tr>
<td>Ellis, Leland</td>
<td>315B</td>
<td>Howard Hughes Medical Institute Dept. of Biochemistry 5323 Harry Hines Blvd. Dallas, TX 75235-9050</td>
</tr>
<tr>
<td>Goldberg, Alfred L.</td>
<td>Non-Res.</td>
<td>Harvard Medical School Dept. of Cellular &amp; Molecular Phys. 240 Longwood Ave., Boston, MA 02115</td>
</tr>
<tr>
<td>Epps, Dennis E.</td>
<td>204B</td>
<td>The Upjohn Company 7255-209-1 7000 Portage Kalamazoo, MI 49001</td>
</tr>
<tr>
<td>Goldberg, Alfred L.</td>
<td>Non-Res.</td>
<td>Harvard Medical School Dept. of Cellular &amp; Molecular Phys. 240 Longwood Ave., Boston, MA 02115</td>
</tr>
<tr>
<td>Epstein, Linda</td>
<td>301B</td>
<td>Tufts University School of Medicine Dept. of Biochemistry 136 Harrison Ave., Boston, MA 02111</td>
</tr>
<tr>
<td>Goodman, Elizabeth M.</td>
<td>101B</td>
<td>Whitehead Institute/MIT 9 Cambridge Center Cambridge, MA 02142</td>
</tr>
<tr>
<td>Epstain, Linda</td>
<td>301B</td>
<td>Tufts University School of Medicine Dept. of Biochemistry 136 Harrison Ave., Boston, MA 02111</td>
</tr>
<tr>
<td>Goodman, Elizabeth M.</td>
<td>101B</td>
<td>Whitehead Institute/MIT 9 Cambridge Center Cambridge, MA 02142</td>
</tr>
<tr>
<td>Fasman, Gerald D.</td>
<td>103A</td>
<td>Brandeis University Graduate Dept. of Biochemistry  Waltham, MA 02254 .</td>
</tr>
<tr>
<td>Graves, Bradford J.</td>
<td>206B</td>
<td>Hoffman-La Roche Inc. Dept. of Physical Chemistry Bldg. 76/15 Nutley, NJ 07110</td>
</tr>
<tr>
<td>Gronenborn, Angela M.</td>
<td>306A</td>
<td>Max Planck Institut fur Biochemie D8033 Martinsried, BEI Munchen WEST GERMANY</td>
</tr>
</tbody>
</table>
Proteins
Registration List
Page 3

Hass, Elisha
Bar-Ilan University

Keiderling, Tim
University of Illinois at Chicago
Dept. of Chemistry M/C111
Box 4348
Chicago, IL 60680

Hassel, Annie
Smith, Kline & French - L110
Macromolecular Science Dept.
P.O. Box 1539
King of Prussia, PA 19406-0939

King, Jonathan
Massachusetts Institute of Technology
Dept. of Biology
Cambridge, MA 02139

Hamilton, James A.
Boston University
School of Medicine
Biophysics Institute
80 East Concord St., R 111
Boston, MA 02118-2394

Kelley, Robert
Genentech, Inc.
Biomolecular Chemistry Dept.
460 Point San Bruno Blvd.
So. San Francisco, CA 94080

Hardman, Karl D.
Genex Corporation
16020 Industrial Dr.,
Gaithersburg, MD 20877

Kim, Peter S.
Whitehead Inst. (M.I.T.)
Nine Cambridge Center
Cambridge, MA 02142

Haev, Henry A.
The Upjohn Co.
7822-259-22
7000 Portage Ave
Kalamazoo, MI 49001

Klotz, Alan V.
Louisiana State University
Dept. of Biochemistry
Baton Rouge, LA 70803

Hermans, Jan
University of North Carolina
Dept. of Biochemistry
Chapel Hill, NC 27514

Konishi, Yasuo
Monsanto Co.
700 Chesterfield Village Pkwy.
St. Louis, MO 62198

James, Michael
University of Alberta
Dept. of Biochemistry
Edmonton, Alberta T6G 2H7
CANADA

Kossiakoff, Anthony
Genentech Inc.
Dept. of Biomolecular Chemistry
460 Point San Bruno Blvd.
So. San Francisco, CA 95080

Jurnak, Frances
University of California
Biochemistry Dept.
Riverside, CA 92521

Lark, Laura
Univ. Texas So'western Medical Cntr.
Dept. of Pharmacology
5323 Harry Hines Blvd.
Dallas, TX 75235-9041

Kalvin, Douglas M.
Nova Pharmaceutical Corp.
6200 Freeport Centre
Baltimore, MD 21224-2700

Lattman, Eaton
Johns Hopkins Medical School
Dept. of Biophysics
Baltimore MD 21205

Kang, Sungzing
130 West Kingsbridge Rd.,
Bronx, NY 10468

Lehrman, Russ
The Upjohn Company
Control Biotechnology
7000 Portage Ave.,
Kalamazoo, MI 49001
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Markland, William</td>
<td>Integrated Genetics, 31 New York Ave., Framingham, MA 01701</td>
<td>204A</td>
<td></td>
</tr>
<tr>
<td>Ogata, Craig</td>
<td>Columbia University, Howard Hughes Medical Institute, 630 West 168th St., BB #523, New York, NY 10032</td>
<td>215B</td>
<td></td>
</tr>
<tr>
<td>Marqusee, Susan</td>
<td>Stanford University, Dept. of Biochemistry, Stanford, CA 94305</td>
<td>213B</td>
<td></td>
</tr>
<tr>
<td>Opella, Stanley</td>
<td>University of Pennsylvania, Dept. of Chemistry, Philadelphia, PA 19101</td>
<td>101A</td>
<td></td>
</tr>
<tr>
<td>Mayne, Lelend</td>
<td>University of Pennsylvania, Dept. of Biochemistry &amp; Biophysics, Philadelphia, PA 19104</td>
<td>214B</td>
<td></td>
</tr>
<tr>
<td>Pabo, Carl</td>
<td>Johns Hopkins Medical School, Dept. of Molecular Biology, Baltimore, MD 21205</td>
<td>209A</td>
<td></td>
</tr>
<tr>
<td>Mitraki, Anna</td>
<td>M.I.T., Dept. of Biology, 77 Massachusetts Ave., Cambridge, MA 02139</td>
<td>206A</td>
<td></td>
</tr>
<tr>
<td>Pakula, Andrew</td>
<td>Mass. Inst. of Technology, Dept. of Biology, Bldg. 16, Rm. 833, Cambridge, MA 02139</td>
<td></td>
<td>215B</td>
</tr>
<tr>
<td>Mutter, Manfred</td>
<td>University of Basel, St. Johans Ring 12, CH4056 Basel, SWITZERLAND</td>
<td>Non Res</td>
<td></td>
</tr>
<tr>
<td>Parsell, Dawn</td>
<td>M.I.T., 16-839, Dept. of Biology, 77 Massachusetts Ave., Cambridge, MA 02139</td>
<td></td>
<td>301b</td>
</tr>
<tr>
<td>Nelson, Jeffrey W.</td>
<td>Louisiana State University, Dept. of Biochemistry, 322 Choppin Hall, Baton Rouge, LA 70803</td>
<td>207A</td>
<td></td>
</tr>
<tr>
<td>Ponder, Jay W.</td>
<td>Yale University, Molecular Biophysics &amp; Biochemistry, Kline Biology Tower, New Haven, CT 06511</td>
<td></td>
<td>302B</td>
</tr>
<tr>
<td>Niteki, Danute E.</td>
<td>Cetus Corporation, 1400 53rd. Street, Emeryville, CA 94608</td>
<td>208A</td>
<td></td>
</tr>
<tr>
<td>Presta, Leonard</td>
<td>Penn. State Univ. Medical Center, Dept. Biological Chemistry, P.O. Box 850, Hershey, PA 17033</td>
<td></td>
<td>302B</td>
</tr>
<tr>
<td>O'Shea, Erin K.</td>
<td>Whitehead Institute/MIT, 9 Cambridge Center, Cambridge, MA 02142</td>
<td>101B</td>
<td></td>
</tr>
<tr>
<td>Presta, Leonard</td>
<td>Penn. State Univ. Medical Center, Dept. Biological Chemistry, P.O. Box 850, Hershey, PA 17033</td>
<td></td>
<td>302B</td>
</tr>
<tr>
<td>Oas, Terence G.</td>
<td>Massachusetts Institute of Tech., Whitehead Inst., 9 Cambridge Center, Cambridge, MA 02139</td>
<td>214B</td>
<td></td>
</tr>
<tr>
<td>Rackovsky, Shalom</td>
<td>U. Rochester School of Medicine &amp; Dentistry, Dept. of Biophysics, Rochester, NY 14642</td>
<td></td>
<td>210A</td>
</tr>
<tr>
<td>Radzicka, Anna</td>
<td>University of North Carolina, Biochemistry Dept., 405 Flob 231 H, Chapel Hill, NC 27599-7260</td>
<td>308A</td>
<td></td>
</tr>
</tbody>
</table>
Raghavendra, K
University of Connecticut
Dept. of Molecular & Cell Biology
Box U-125, No. Eangleville Rd.
Storrs, CT 06268

Raghavendra, Mrs (Spouse)

Regan, Lynne
E.I. DuPont De Nemours & Co., Inc.
Experimental Station 328/B47
Wilmington, DE 19898

Roise, David A
University of California, San Diego
Dept. of Chemistry D-006
La Jolla, CA 92039

Rose, George
Penn State University
Hershey Medical Center
Dept. of Biological Chemistry
Hershey, PA 17033

Sauter, Nicholas K.
Harvard University
Biophysics Committee
7 Divinity Ave.
Cambridge, MA 02138

Schevitz, Richard
Eli Lilly & Company
Lilly Corporate Center
Indianapolis, IN 46285-1513

Schimerlik, Michael
Oregon State University
Dept. Biochemistry & Biophysics
Corvallis, OR 97331

Wurzburg, Beth A.
Harvard University
Dept. of Biochemistry & Molecular Biology
7 Divinity Avenue
Cambridge, MA 02138

Yu, Myeong-Hee
Genetic Engineering Center
PO Box 131
Cheongryang Seoul Korea

Zehfus, Michael
University of Wisconsin
Department of Biochemistry
420 Henry Mall
Madison, WI 53706

Schutt, C. E.
Princeton University
Department of Chemistry
Washington Road
Princeton, NJ 08540

Sigal, Irving S.
Merck, Sharp & Dohme Research Labs.
BL16-101
West Point, PA 19486

Smith, John A.
Massachusetts General Hospital
Department of Molecular Biology
50 Blossom Street
Boston, MA 02114

Sprang, Stephen
UT Southwestern Medical Center
Howard Hughes Medical Institute
Biochemistry, 5323 Harry Hines Boulevard
Dallas, TX 75235-9050

Staley, Jonathan P.
Whitehead Institute/MIT
9 Cambridge Center
Cambridge, MA 02142

States, David J.
National Institutes of Health
Building 10, Room 6D10
5000 Rockville Pike
Bethesda, MD 20892

Stock, Anne
Princeton University
Department of Molecular Biology
Princeton, NJ 08544

Strader, Catherine D.
Merck Sharp & Dohme Research Labs.
Department of Biochemistry BON-216
Rahway, NJ 07065
<table>
<thead>
<tr>
<th>Name</th>
<th>Room</th>
<th>Affiliation</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock, Jeff</td>
<td>307B</td>
<td>Princeton University</td>
<td>Princeton, NJ 08544</td>
</tr>
<tr>
<td>Wiley, Don</td>
<td>302A</td>
<td>Howard Hughes Medical Institute</td>
<td>Harvard University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Biochemistry/Molecular Biology</td>
<td>Cambridge, MA 02138</td>
</tr>
<tr>
<td>Talib, Sohel</td>
<td>306B</td>
<td>Applied Immune Sciences</td>
<td>Menlo Park, CA 94025</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Texter, Frieda</td>
<td>205B</td>
<td>Albright College</td>
<td>PO Box 15234</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Chemistry</td>
<td>Reading, PA 19612</td>
</tr>
<tr>
<td>Tilton, Robert</td>
<td>308B</td>
<td>Miles Inc.</td>
<td>400 Morgan Lane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Research Division</td>
<td>West Haven, CT 06516</td>
</tr>
<tr>
<td>Udgaonkar, Jayant</td>
<td>308B</td>
<td>Stanford University</td>
<td>Stanford, CA 94305</td>
</tr>
<tr>
<td>Van Oostrum, Jan</td>
<td>309B</td>
<td>Ciba-Geigy Ltd.</td>
<td>Biotechnology, K681.5.45</td>
</tr>
<tr>
<td>Warshel, Arieh</td>
<td>301A</td>
<td>University of Southern California</td>
<td>Department of Chemistry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Los Angeles, CA 90089</td>
<td></td>
</tr>
<tr>
<td>Walsh, Mary T.</td>
<td>206A</td>
<td>Boston University</td>
<td>School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Biophysics Institute</td>
<td>80 East Concord Street</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Boston, MA 02118</td>
</tr>
</tbody>
</table>

**LATE ARRIVALS:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Room</th>
<th>Affiliation</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ciechanover, Aaron</td>
<td>312B</td>
<td>Technion - Faculty of Medicine</td>
<td>Dept. of Biochemistry</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>P.O. Box 9649</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Haifa 31096</td>
</tr>
<tr>
<td>Creer, Jonathan</td>
<td>105A</td>
<td>Abbott Laboratories</td>
<td>Dept. 47E, Bldg. AP9A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Abbott Park, IL 60064</td>
</tr>
<tr>
<td>Lin, Tiao-Yin</td>
<td>213B</td>
<td>Whitehead Institute</td>
<td>MIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Nine Cambridge Center</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cambridge, MA 02142</td>
</tr>
</tbody>
</table>