

CHEMICAL HERITAGE FOUNDATION

JERRY R. FAUST

The Pew Scholars Program in the Biomedical Sciences

Transcript of an Interview
Conducted by

Andrea R. Maestrejuan

at

Tufts University
Boston, Massachusetts

on

18, 19, and 20 February 1997

From the Original Collection of the University of California, Los Angeles

ACKNOWLEDGEMENT

This oral history is part of a series supported by a grant from the Pew Charitable Trusts based on the Pew Scholars Program in the Biomedical Sciences. This collection is an important resource for the history of biomedicine, recording the life and careers of young, distinguished biomedical scientists and of Pew Biomedical Scholar Advisory Committee members.

This oral history was completed under the auspices of the Oral History Project, University of California, Los Angeles (Copyright © 1998, The Regents of the University of California) and is made possible through the generosity of



**From the original collection at the Center for
Oral History Research, UCLA Library, UCLA.**

The following oral history, originally processed at the UCLA Center for Oral History Research, has been reformatted by the Chemical Heritage Foundation. The process involved reformatting the front matter, adding a new abstract, replacing the table of contents, and replacing the index. The paragraph spacing and font of the body of the transcript were altered to conform to the standards of the Oral History Program at the Chemical Heritage Foundation. The text of the oral history remains unaltered; any inadvertent spelling or factual errors in the original manuscript have not been modified. The reformatted version and digital copies of the interview recordings are housed at the Othmer Library, Chemical Heritage Foundation. The original version and research materials remain at the Darling Library, University of California, Los Angeles and at the Bancroft Library, University of California, Berkeley.

REFORMATTING:

Holly Polish, Program Intern, Oral History, Chemical Heritage Foundation. B.A., History, American University.

David J. Caruso, Program Manager, Oral History, Chemical Heritage Foundation. B.A., History of Science, Medicine, and Technology, Johns Hopkins University; PhD., Science and Technology Studies, Cornell University.

UNIVERSITY OF CALIFORNIA, LOS ANGELES

Oral History Interview Agreement No. 970227

This Interview Agreement is made and entered into this 26th day of May, 1998 by and between THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, a California corporation, on behalf of the Oral History Program at the UCLA campus, hereinafter called "University," and JERRY R. FAUST, having an address at Tufts University School of Medicine, Department of Cellular & Molecular Physiology, 136 Harrison Avenue, Boston, MA 02111, hereinafter called "Interviewee."

Interviewee agrees to participate in a series of University-conducted tape-recorded interviews, commencing on or about February 18, 1997, and tentatively entitled "Interview with Jerry R. Faust". This Agreement relates to any and all materials originating from the interviews, namely the tape recordings of the interviews and a written manuscript prepared from the tapes, hereinafter collectively called "the Work."

In consideration of the mutual covenants, conditions, and terms set forth below, the parties hereto hereby agree as follows:

1. Interviewee irrevocably assigns to University all his copyright, title and interest in and to the Work. This assignment applies to University, its successors, and assigns, for and during the existence of the copyright and all renewals and extensions thereof.
2. By virtue of this assignment, University will have the right to use the Work for any research, educational, or other purpose that University may deem appropriate.
3. Interviewee acknowledges that he will receive no remuneration or compensation for his participation in the interviews or for the rights assigned hereunder.
4. Interviewee will receive from University, free of charge, one bound copy of the typewritten manuscript of the interviews.
5. To insure against substantive error or misquotation, Interviewee will have the right to review the manuscript before it is put into final form. University therefore will send Interviewee a copy of the edited transcript for review and comment. Interviewee will return transcript and comments to University within 30 days of receipt of the transcript. In the event that Interviewee does not respond within 30 days, University will assume that Interviewee has given full approval of the transcript.

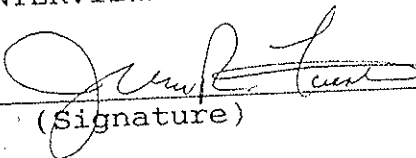
6. All notices and other official correspondence concerning this Agreement will be sent to the following:

If to University: Office of Research Administration
University of California, Los Angeles
P.O. Box 951406
Los Angeles, California 90095-1406
Attention: Ms. Carli V. Rogers
Copyright Officer

If to Interviewee: Jerry R. Faust
Tufts University School of Medicine
Department of Cellular and Molecular Physiology
136 Harrison Avenue
Boston, MA 02111

University and Interviewee have executed this Agreement on the date first written above.

INTERVIEWEE


(Signature)

Jerry R. Faust
(Typed Name)

Tufts University School of
Medicine

136 Harrison Avenue
(Address)

Boston, MA 02111

Date FEB. 18, 1997

THE REGENTS OF THE UNIVERSITY
OF CALIFORNIA


(Signature)

for Carli V. Rogers
(Typed Name)

Copyright Officer
(Title)

Date 5/26/98

This interview has been designated as **Free Access**.

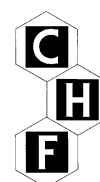
One may view, quote from, cite, or reproduce the oral history with the permission of CHF.

Please note: Users citing this interview for purposes of publication are obliged under the terms of the Chemical Heritage Foundation Oral History Program to credit CHF using the format below:

Jerry R. Faust, interview by Andrea R. Maestrejuan at Tufts University, Medford, Massachusetts, 18-20 February 1997 (Philadelphia: Chemical Heritage Foundation, Oral History Transcript # 0558).



Chemical Heritage Foundation
Oral History Program
315 Chestnut Street
Philadelphia, Pennsylvania 19106



The Chemical Heritage Foundation (CHF) serves the community of the chemical and molecular sciences, and the wider public, by treasuring the past, educating the present, and inspiring the future. CHF maintains a world-class collection of materials that document the history and heritage of the chemical and molecular sciences, technologies, and industries; encourages research in CHF collections; and carries out a program of outreach and interpretation in order to advance an understanding of the role of the chemical and molecular sciences, technologies, and industries in shaping society.

JERRY R. FAUST

1948 Born in Sterret, Texas, on 10 March

Education

1971 B.S., Stephen F. Austin State University
1974 M.A., University of Texas at Arlington
1991 Ph.D., Sackler School of Graduate Biomedical Sciences, Tufts University

Professional Experience

1987-1991 Tufts University School of Medicine, Boston, Massachusetts
Doctoral Student Researcher, Department of Physiology
1991-present Assistant Professor, Department of Physiology

1971-1972 Associated Dallas Laboratories, Dallas, Texas
Analytical Chemist

1972-1974 University of Texas at Arlington, Arlington, Texas
Research Assistant

1974-1977 University of Texas Southwestern Medical Center at Dallas,
Dallas, Texas
Research Technician, Departments of Internal Medicine and
Molecular Genetics

1977-1985 Research Associate

1985-1987 E.I. Du Pont de Nemours and Company, Experimental Station,
Wilmington, Delaware
Principal Investigator, Cardiovascular Unit

Honors

1992-1994 Harcourt General Charitable Foundation New Investigator Award
1992-1996 Pew Scholar in the Biomedical Sciences
1995-2000 American Heart Association Established Investigator Award

Selected Publications

- Brown, M.S. et al., 1975. Role of the low density lipoprotein receptor in regulating the free and esterified cholesterol content of human fibroblasts. *Journal of Clinical Investigation* 55:783-93.
- Faust, J.R. et al., 1977. Receptor-mediated uptake of low density lipoprotein and utilization of its cholesterol for steroid synthesis in cultured mouse adrenal cells. *Journal of Biological Chemistry* 252:4861-71.
- Faust, J.R. et al., 1980. Synthesis of 2-isopentenyl tRNA from mevalonate in cultured human fibroblasts. *Journal of Biological Chemistry* 255:6546-48.
- Faust, J.R. et al., 1982. Regulation of synthesis and degradation of 3-hydroxy-3-methylglutaryl coenzyme A reductase by low density lipoprotein and 25-hydroxycholesterol in UT-1 cells. *Proceedings of the National Academy of Science USA* 79:5205-9.
- Faust, J.R. and M. Krieger, 1987. Expression of specific high capacity mevalonate transport in a Chinese hamster ovary cell variant. *Journal of Biological Chemistry* 262:1996-2004.
- Liscum, L. and J.R. Faust, 1987. Low density lipoprotein (LDL) -mediated suppression of cholesterol synthesis and LDL uptake is defective in Niemann-Pick type C fibroblasts. *Journal of Biological Chemistry* 262:17002-8.
- Liscum, L. and J.R. Faust, 1989. The intracellular transport of low density lipoprotein-derived cholesterol is inhibited in Chinese hamster ovary cells cultured with 3- β - [2-(diethylamino)ethoxy]androst-5-en-17-one. *Journal of Biological Chemistry* 264:11796-806.
- Faust, J.R. and J.F. Dice, 1991. Evidence for isopentenyladenine modification on a cell cycle-regulated protein. *Journal of Biological Chemistry* 266:9961-70.
- Faust, J.R. et al., 1994. Two related proteolipids and dolichol-linked oligosaccharides accumulate in motor neuron degeneration mice (*mnd/mnd*), a model for neuronal ceroid lipofuscinosis. *Journal of Biological Chemistry* 269:10150-55.

ABSTRACT

Jerry R. Faust began his childhood on his father's farm in rural Texas. When his parents divorced he moved with his mother, a nurse, and his brother to Dallas, Texas, where he attended junior high school and high school. When he was in eighth grade he took an advanced biology class in which the newly-discovered ATP was discussed at length, but in high school he "left biology" for chemistry. He loved chemistry, a field that was really taking off at the time. A high school chemistry teacher proved an important role model, and an influential school trip to a research laboratory confirmed his desire to become a scientist.

Faust's chemistry teacher was also the basketball coach, and Faust played well enough to be offered a basketball scholarship to Stephen F. Austin State University. As he says, he went to college to play basketball, not to learn, so he rejected an offer from Rice University, as studying might have gotten in the way of basketball. At Austin State he declared a major in chemistry and minored in biology, soon developing an interest in biochemistry. He considered working in biochemistry to be a way to make a contribution to society.

After graduation Faust took a position as a chemist. He spent a boring year testing materials before deciding to go to graduate school. He took a biochemistry course taught by Edward Bellion, and entered his lab at University of Texas at Arlington. There he continued to develop his interest in biochemistry. He felt he had certain advantages coming to biochemistry as a chemist rather than a biologist. After finishing a master's degree, Faust accepted a position as research associate in the Michael S. Brown and Joseph L. Goldstein lab at the University of Texas Southwestern Medical Center in Dallas. Faust describes Brown's and Goldstein's backgrounds; his role in the lab's work on cholesterol metabolism; and learning opportunities in the lab. He also explains their Nobel Prize for research into LDL. After being there for eleven years he went to E.I. DuPont de Nemours and Company as a principal investigator in the cardiology unit. Faust describes the structure and research resources of the Du Pont Experimental Station and his projects there. He explains his professional satisfaction in designing and implementing research per se, irrespective of clinical applications.

Faust's preference for following tangents rather than pursuing a strictly linear line of research led him next to the decision to pursue a PhD in the physiology department at Tufts University, where he entered James Fred Dice's lab. Being a student again was different and strange. Here he discusses how the need to meet funding requirements affects the direction of research; the value of funding sources that allow for creative research; and the advantages of increasing cooperation between labs. He continues with a discussion of Dice as a mentor; his own mentoring and managing style; influence on his research of the Pew Scholars Program in the Biomedical Sciences award; grant writing; and competition with Peter Pentchev's lab over work on cholesterol transport in Niemann-Pick type C disease.

He has more to say about the competition with the Pentchev lab; differences between the grant review process at the National Science Foundation and that at the National Institutes of Health; science funding in general; and his lab's work on neuronal ceroid lipofuscinosis. Collaboration with foreign labs leads to foreign students, difficult to fund and difficult to place after graduation, especially since principal investigator positions are so scarce. He finishes with a description of how he and his partner, also a scientist at Tufts with whom he collaborates on projects, balance their work life with their home life.

UCLA INTERVIEW HISTORY

INTERVIEWER:

Andrea R. Maestrejuan, Interviewer, UCLA Oral History Program; B.A., History, University of California, Irvine, 1988; B.S., Biological Sciences, University of California, Irvine, 1988; C.Phil., History, University of California, Riverside.

TIME AND SETTING OF INTERVIEW:

Place: Faust's office, Tufts University.

Dates, length of sessions: February 18, 1997 (117 minutes); February 19, 1997 (147); February 20, 1997 (146).

Total number of recorded hours: 6.85

Persons present during interview: Faust and Maestrejuan.

CONDUCT OF INTERVIEW:

This interview is one in a series with Pew Scholars Program in the Biomedical sciences conducted by the UCLA Oral History Program in conjunction with the Pew Charitable Trusts's Pew Scholars Program in the Biomedical Sciences Oral History and Archives Project. The project has been designed to document the backgrounds, education, and research of biomedical scientists awarded four-year Pew scholarships since 1988.

To provide an overall framework for project interviews, the director of the UCLA Oral History Program and three UCLA faculty project consultants developed a topic outline. In preparing for this interview, Maestrejuan held a telephone preinterview conversation with Faust to obtain written background information (curriculum vitae, copies of published articles, etc.) and to agree on an interviewing schedule. She also reviewed prior Pew scholars' interviews and the documentation in Faust's file at the Pew Scholars Program office in San Francisco, including his proposal application, letters of recommendation, and reviews by Pew Scholars Program national advisory committee members.

For general background on the recent history of the biological sciences, Maestrejuan consulted J.D. Watson et al., *Molecular Biology of the Gene*. 4th ed. Menlo Park, CA: Benjamin/Cummings, 1987, and Bruce Alberts et al., *Molecular Biology of the Cell*. 3rd ed. New York: Garland, 1994.

The interview is organized chronologically, beginning with Faust's childhood in rural Texas and continuing through his education at the University of Texas at Arlington, his work as a lab technician, his doctoral work at Tufts University, and the establishment of his lab there. Major topics discussed include the advantages of learning biochemistry in the context of chemistry, Faust's role in the Michael S. Brown and Joseph L. Goldstein lab's work on cholesterol metabolism, Faust's own work on cholesterol mobility and transport, and funding in the sciences.

ORIGINAL EDITING:

Jane Collings, senior editor, edited the interview. She checked the verbatim transcript of the interview against the original tape recordings, edited for punctuation, paragraphing, and spelling, and verified proper names. Words and phrases inserted by the editor have been bracketed.

Faust reviewed the transcript. He verified proper names and made minor corrections and additions.

Collings prepared the table of contents and biographical summary.

Gregory M.D. Beyrer, editorial assistant, assembled the interview history.

Kathleen McAlister, editorial assistant, compiled the index.

TABLE OF CONTENTS

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Early and College Years | 1 |
| <p>Childhood in rural Texas. Early science education. High school chemistry teacher proves an important role model. Influential school trip to a research laboratory. General public's unfamiliarity with the work of the research scientist. Move to Dallas. Life on the farm as a child. Family background. Accepts a basketball scholarship to Stephen F. Austin State University. Career expectations among students at high school. Impact of the Vietnam War. Declares a major in chemistry. Develops an interest in biochemistry. Considers work in biochemistry as a way of making a social contribution.</p> | |
| Graduate School, Work as a Technician, and Research | 24 |
| <p>Teaches a summer lab course in quantitative analysis. Cost of a college Education. Playing basketball in college. Takes a position as a chemist after Graduation. Enters the Edward Bellion lab as a graduate student at University of Texas at Arlington. Advantages of coming to biochemistry as a chemist rather than a biologist. Accepts a technician position in the Michael S. Brown and Joseph L. Goldstein lab at the University of Texas Southwestern Medical Center in Dallas. Work on cholesterol metabolism. Personnel recruitment for the lab. Research position at E.I. Du Pont de Nemours and Company. The resources of the Du Pont Experimental Station for work in immunology, membrane biology, cholesterol metabolism, and neurosciences. Impact of Brown and Goldstein's Nobel Prize on the Southwestern Medical Center.</p> | |
| Doctoral Work at Tufts | 55 |
| <p>The value of funding sources that allow for creative research. Decision to pursue a Ph.D. at the Tufts University School of Medicine. The structure and research resources of the Du Pont Experimental Station. Projects at Du Pont. Enters the James Fred "Paulo" Dice lab at Tufts. The transition to being a student again.</p> | |
| Faculty Years and Final Thoughts | 71 |
| <p>The process of separation from Du Pont. The Pew Scholars Program in the Biomedical Sciences. Competition. Cholesterol transport in Niemann-Pick type C disease. Differences between the grant review process at the National Science Foundation and the National Institutes of Health. Strategies for structuring research proposals. Science funding. Work on neuronal ceroid lipofuscinosis. Collaborations with overseas labs. Life of a two-science-career couple.</p> | |
| Index | 111 |

INDEX

A

Abbott, Harold, 21
Abilene Christian University, 21
Abilene, Texas, 21, 29
Adamson High School, 15
adenosine triphosphate, 1, 38
Alamo, 15
Albert Lasker Medical Research Award, 52
American Cancer Society, 86, 87, 90
American Heart Association, 90, 91
Ara Parseghian Medical Research
Foundation, 86
Arias, Irwin M., 66
Arizona, 8
Arkansas, 8
Arlington, Texas, 11, 31, 34
Associated Dallas Laboratories, 30
ATP. *See* adenosine triphosphate
Austin, Texas, 2, 5, 7, 20, 40, 65

B

Banting, Frederick, 26
Bar Harbor, Maine, 67
Baylor County Hospital, 10
Baylor University, 40
Bellion, Edward, 31, 32, 45, 87, 98
Best, Charles, 26
Billheimer, Jeffrey T., 67
Blackland, Texas, 5, 6
Boerne, Texas, 5
Bohmfolk, Helen, 45
Boston, Massachusetts, 7, 19, 50, 66, 83,
87, 89, 93, 99, 104
Brashear, Kenneth, 2, 14, 15
Bronson, Roderick T., 64, 90, 93
Brown, Andrea, 80
Brown, Michael S., 35, 41, 42, 43, 45, 46,
48, 50, 52, 53, 56, 57, 58, 59, 62, 64, 66,
67, 69, 70, 75, 76, 78, 79, 80, 81, 83, 88,
90, 91, 102, 107, 109
Brownwood, Texas, 29

Brunschede, Gloria Y., 45, 48

C

California, 16
Canada, 17
Chen, Harry W., 67
Children's Medical Center of Dallas, 41, 49
China, 97, 98, 101
cholesterol, 43, 44, 47, 50, 52, 55, 56, 59,
67, 69, 70, 72, 85, 91, 102, 103, 106
chromatography, 42, 44
gas-liquid, 42
thin-layer, 42, 44
Columbia University, 22
Comfort, Texas, 7, 8
competition, 47, 48, 56, 59, 70, 85, 86, 104
Corey, Elias James, 50
Cozumel, Mexico, 59
Czechoslovakia, 5

D

Dallas County Junior College, 16
Dallas Independent School District, 14, 15,
38
Dallas, Texas, 1, 5, 9, 10, 11, 12, 14, 15, 16,
17, 20, 30, 32, 34, 35, 40, 41, 49, 52, 55,
57, 62, 64, 65, 69, 70, 71, 72, 76, 80, 81,
83, 91, 100
Dana, Susanne M., 42, 45
Denton, Texas, 32
DeSoto Texas, 49
Deutschmen, 5
Dice, James Fred, 63, 71, 78, 79
Dietschy, John M., 46
DNA, 26, 53, 67
cDNA, 81
Dolloff, Ann, 80
Dow Chemical Company, 16, 75
Du Pont-Merck Pharmaceutical Company,
67

E

E.I. Du Pont de Nemours and Company, 2,
54, 64, 65, 67, 70, 72, 75, 76, 81, 104, 109
Ellis County, Texas, 7
Erlenmeyer flask, 26

F

Falk, Camille, 50
Faust Hotel, 7
Faust, Jack Rudolph (father), 1
Faust, John Cairy (brother), 1, 14
Faust, Mary Elizabeth Pigg (mother), 1
Flatonia, Texas, 5
Fort Worth, Texas, 5, 11, 40
Frankenstein, 4
Fredericksburg, Texas, 5
Friedel-Crafts reaction, 26
funding, 40, 41, 53, 54, 55, 56, 60, 61, 62,
63, 64, 84, 86, 87, 88, 91, 93, 99, 102,
104, 105, 107

G

gamma-glutamyl transferase, 82
Garland, Texas, 49
Garrett, James, 22
gas chromatograph, 42, 44
Gaylor, James L., 55, 67, 77
General Cinema Corporation Charitable
Foundation, 87
German/Germany, 5, 7, 8, 12
GI Bill. *See* Serviceman's Readjustment Act
of 1944
Gilman, Alfred G., 57
Goldstein, Joseph L., 41, 42, 43, 45, 46, 47,
48, 49, 50, 51, 52, 53, 55, 56, 57, 58, 59,
62, 64, 66, 67, 69, 70, 75, 76, 78, 79, 80,
81, 83, 88, 90, 91, 101, 102, 107, 109
Guadalupe River, 8

H

Harcourt General Charitable Foundation
New Investigator Award, 87
Harvard University, 50
Hasak, Texas, 5

HMG CoA reductase, 43, 69, 103
Hoffman-La Roche, 55
Hood, Leroy, 91
Hot Springs, Arkansas, 9
Houston, Texas, 16, 40
Howard Hughes Medical Institute, 62, 63,
99
hypercholesteremia, 43

I

Indiana, 7, 12
Indiana University School of Nursing, 7
Isberg, Ralph R., 63
isopentenyladenosine, 106
isoprenylation, 77, 86, 89
Israel, 102
Israel Binational Science Foundation, 102

J

Jackson Laboratory, 67, 93
Johnson City, Texas, 20
Johnson, President Lyndon B., 20

K

Kennedy, President John F., 14
Kerrville, Texas, 8, 10, 11
Kiwanis Club, 107, 108
Krebs cycle, 26
Krieger, Monty, 70, 77, 80, 83

L

LDL. *See* lipoprotein
Lions Club, 107
lipoprotein, 43, 44
low-density, 42, 43, 51, 69
Liscum, Laura, 65, 66, 69, 70, 71, 72, 77,
83, 85, 86, 104, 107
Los Angeles, California, 5, 7
Louisiana, 8, 12
Lovastatin, 52
low-density lipoprotein. *See* lipoprotein

M

M.W. Welch Foundation, 31

Mallinckrodt Chemical Works, 23
Massachusetts Audubon Society, 107
Massachusetts General Hospital, 42
Massachusetts Institute of Technology, 70
McGarry, J. Denis, 45
Merck and Company, 52, 53, 55, 66, 67
met-18b-2 cells, 81
Methodist Medical Center, 9
Mevacor, 52
mevalonate transporter, 81, 82
mevalonic acid, 69, 80, 81, 82
mevalonic transporter, 77, 80, 81, 89
Miller Brewing Company, 34, 40
Minnesota, 32
MIT. *See* Massachusetts Institute of Technology
Monsanto Company, 23
MVA. *See* mevalonic acid

N

Nacogdoches, Texas, 12, 18, 22
napalm, 75
NASA. *See* National Aeronautics and Space Administration
National Science Foundation, 87, 88, 89, 90, 94
National Academy of Sciences, 52
National Aeronautics and Space Administration, 16, 40
National Basketball Association, 23
National Institutes of Health, 43, 46, 63, 85, 86, 87, 88, 89, 90, 92, 93, 94, 101
NCL. *See* neuronal ceroid lipofuscinosis
neuronal ceroid lipofuscinosis, 93, 103
New Braunfels, Texas, 5, 8
New York City, New York, 7, 22
New Zealand, 103
Niemann-Pick [type] C, 71, 85, 105
NIH. *See* National Institutes of Health
Nirenberg, Marshall, 43, 46
Nobel Prize, 43, 51, 52, 56, 57, 58, 60, 107
North Texas State University, 21, 32
NSF. *See* National Science Foundation

O

Oak Cliff, Texas, 5, 14, 15, 17
Oliver Wendell Holmes Junior High School, 38
Oswald, Lee Harvey, 14

P

Palmer, David, 103
Parkland Memorial Hospital, 9, 41
Pentchev, Peter G., 85, 86, 88
Perot, H. Ross, 57, 62, 63
Pew Charitable Trusts, 61, 90, 99, 109
Pew Latin American Fellows Program, 99
Pew Scholars Program in the Biomedical Sciences, 26, 40, 58, 61, 80, 86, 88, 89, 92, 94, 103
phenylketonuria, 25
PKU. *See* phenylketonuria

Q

Qin, Xuebin, 96, 100
Quincy, Massachusetts, 104

R

ribonucleic acid, 26, 68, 70, 81, 106
Rice University, 12, 13, 21, 29, 40
RNA. *See* ribonucleic acid
Roche Institute of Molecular Biology, 55
Roitelman, Joseph, 102

S

Salmonella, 33
Sambrook, Joseph, 57
San Antonio, Texas, 5, 7, 8
San Marcos, Texas, 29
Seattle, Washington, 8, 43
Seldin, Donald W., 45
Serviceman's Readjustment Act of 1944, 11, 12
Seymour, Texas, 10
Sid Peterson Memorial Hospital in Kerr County, 10
Simoni, Robert D., 103
Siperstein, Marvin D., 43

SMU. *See* Southern Methodist University
Social Security, 9, 10, 41, 49
Southern Methodist University, 32
Stadtman, Earl, 43, 46
Stephen F. Austin State University, 12, 14,
21, 22, 24, 26, 29
Sterret Public School District, 14
Sterret, Texas, 1, 2, 4, 5, 6, 7, 8, 14, 38

T

Texas, 5, 6, 7, 10, 12, 18, 23, 28, 30, 40, 54,
56, 65
Texas A & M University, 12, 40, 57
Texas Theater, 14, 15
Tippit, J.D., 14
TLC. *See* chromatography
Trinity River, 5, 14
Trzaskos, James M., 67
Tucson, Arizona, 86
Tufts University, 28, 54, 70, 72
Tufts University Sackler School of
Graduate Biomedical Sciences, 66
Tufts University School of Medicine, 65,
78, 100, 104, 109

U

U.S. Army, 7, 10, 11, 12, 16, 17, 18, 19
U.S. Department of State, 102
U.S. Marine Corps Reserve, 18, 20
U.S. National Guard, 18
U.S. Public Health Service Research Career
Development Award, 92
United States of America, 20, 52, 99, 101,
102

University of California, 48
University of California, Berkeley, 18
University of Delaware, 65
University of Houston, 40
University of Leeds, 32
University of Pennsylvania, 42
University of Texas, 8, 2, 3, 31, 34, 40, 48,
65
University of Texas Southwestern Medical
Center, 34, 40, 43, 57, 62, 68, 76, 83, 100
University of Texas Southwestern Medical
School, 50
Upjohn Company, 53, 55, 66

V

Vietnam, 19
Vietnam War, 11, 19, 75

W

W.H. Adamson High School, 2
Waco, Texas, 1
Wadley Blood Center, 40
Washington, 8
Washington, D.C., 85
Waxahachie, Texas, 5
Wichita Falls, Texas, 10
Wilmington, Delaware, 55, 65, 72
Wilson, Jean D., 45

Y

Yale University, 80
Yugoslavia, 5