## CHEMICAL HERITAGE FOUNDATION

# ALISON A. WEISS

The Pew Scholars Program in the Biomedical Sciences

Transcript of an Interview Conducted by

Robert Kohler and Naomi Morrissette

at

Coronado, California

on

3 March 1991

(With Subsequent Corrections and Additions)

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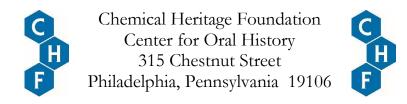
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# ALISON A. WEISS

1952	Born in Milwaukee, Wisconsin, 22 December
	Education
1975	AB, Biology, Washington University in St. Louis
1981	MS, Microbiology, University of Washington
1983	PhD, Medical Microbiology, Stanford University
	Professional Experience
	University of Virginia, Charlottesville, Virginia
1983-1985	Postdoctoral Fellow
	Virginia Commonwealth University, Richmond, Virginia
1985-present	Assistant Professor

## Honors

1980	American Society for Microbiology, Presidents Fellowship
1981, 1983	NIH Predoctoral Fellowship, Stanford University
1984-1985	Damon Runyon-Walter Winchell Cancer Fellowship
1987	Pew Scholars in the Biomedical Sciences Award

## ABSTRACT

Alison A. Weiss grew up in Wauwatosa, Wisconsin, a suburb of Milwaukee, the second of six children. Her father was an electrician, her mother a housewife. All six children graduated from college, and four have postgraduate education. Alison has always liked science and math and has always done well in them.

Because of campus chaos at the University of Wisconsin, Weiss chose to attend Washington University in St. Louis, where she worked on bacteria in Simon Silver's lab. She enjoyed the University, Silver's lab, her independence, and the work, ultimately staying on as a technician for a three years. Weiss began graduate school in Stanley Falkow's lab at the University of Washington; soon thereafter the lab moved to Stanford University. Weiss chose to work in pathogenic bacteria because she liked microbiology and wanted find a way to use it to help prevent disease. Her dissertation dealt with *Bordetella pertussis*, and she cloned a pertussis toxin, partly as a result of a short stint with Douglas Berg who taught her a great deal of genetics and a different way of looking at things.

After two years as a postdoc at University of Virginia (UVA) Weiss and her husband were recruited to UVA's medical school, Virginia Commonwealth University. Weiss received a good setup package and gradually built up her lab. She keeps her lab somewhat small so that she can keep up with the extensive literature. Her main focus is trying to figure out not just what pathogens do, but why and how. She says that even diphtheria, the simplest disease, is still not understood, and pertussis is much more complicated.

Weiss loves bench work and works at balancing it with her family life. She discusses the funding situation, peer review, and the time and effort one must devote to study sections. Asked about her ten-year plan, she says she is lucky or unlucky enough to have realized all her goals so far, but she suggests she might like to do field work, hoping to improve human health. Weiss explains how the Pew Scholars Program in the Biomedical Sciences money helped her. She ends her interview by describing the personality needed to be a scientist, saying science is an exciting, creative, and rewarding career for someone with patience.

# **TABLE OF CONTENTS**

Early Years Grows up in Wisconsin. Family life and background. High school education. Enjoys math and science. Early influences.	1
College Years Washington University in St. Louis. Simon Silver's lab. Works on bacteria. Publishes. Three year technician position. Lab atmosphere. Silver's social outreach.	4
Graduate School Years Stanley Falkow's lab at University of Washington and Stanford University. Finding practical use for microbiology. Studies pathogenic bacteria. Dissertation on transposons as mutagenesis agents in <i>Bordetella pertussis</i> . Falkow's lab composition and management. Clones pertussis toxin as alternative project. Influence of Michael Koomey, Daniel Portnoy, Stephen Moseley. Two years as postdoc at University of Virginia.	10
First Job Virginia Commonwealth University Medical School. Startup package. Lab composition and management. Positives of smaller lab. Researching pathogens and underlying causes of disease. Clinical connections important. Pew Scholars Program in the Biomedical Sciences funding.	27
General Observations Balancing motherhood and work. Loves bench work. Funding and peer review.	34

Evaluation variance related to probability of success; focus on advancement of human health. Would not want human subjects; impossible to do good experiments. Number of groups working in pathological microbiology. Personality required to be scientist. Science creative and rewarding for the patient person.

Index

45

## INDEX

#### A

acquired immune deficiency syndrome, 33, 37 AIDS. *See* acquired immune deficiency syndrome Australia, 13

## B

Berg, Douglas E., 13, 14, 18 Bordetella pertussis, 12, 22, 26, 36 Brazil, 35

#### С

California, 10, 39 Canada, 23 collaboration, 42 Crick, Francis H.C., 24

#### D

DNA, 12, 25, 31

#### Е

Ewanowich, Carol A., 22

#### F

Falkow, Stanley, 10, 11, 14, 15, 17, 20, 26, 27, 28, 29, 30, 37 Foster, Timothy J., 21, 22 Franklin, Rosalind, 25

### G

grants/funding, 12, 13, 17, 18, 19, 34, 37, 38, 39, 40, 41

#### H

Hayflick, Leonard, 16 Hewlett, Erik L., 26

#### K

Koomey, J. Michael, 20

#### Μ

Massachusetts, 39 Matthias, Mr., 3 Medical College of Virginia. *See* Virginia Commonwealth University Melton, Angela, 22, 31 Mexico, 35 Milwaukee, Wisconsin, 1 Moseley, Stephen L., 20

### Ν

National Institutes of Health, 19, 41 National Science Foundation, 19 NIH. *See* National Institutes of Health Nobel Prize, 18, 25 NSF. *See* National Science Foundation

### Р

patents, 24 Peppler, Mark S., 22 pertussis, 18, 22, 30, 33, 42 Pew Scholars Program in the Biomedical Sciences, 11, 20, 23, 26, 37 Portnoy, Daniel A., 20 publish/publication, 5, 6, 14, 21, 24, 25, 27

### R

Russia, 41

## S

Scribner, Harvey, 8 Seattle, Washington, 16 Sherburne, Richard K., 22 Silver, Simon, 4, 5, 6, 7, 10, 13, 14, 41 Stanford University, 10, 16, 17, 18, 20, 25, 27, 28 Sutton, Mr., 3

### Т

tenure, 34

### U

United States of America, 42 University of Virginia, 25, 26 University of Washington, 10, 11, 17 University of Wisconsin, 4, 7, 10

#### V

Virginia Commonwealth University, 27, 28

W

Washington University in St. Louis, 4, 7

Watson, James D., 24, 25 Wauwatosa, Wisconsin, 1