

CURRICULUM VITAE

Lee Huber Abrahamsen

Academic Background:

1971-1975 Franklin and Marshall College
Lancaster, Pennsylvania

Major: Biology
Granted Bachelor of Arts Degree, June, 1975

1975-1981 The Medical College of Pennsylvania
Department of Microbiology
Philadelphia, Pennsylvania

Major Fields: Virology and Immunology

Dissertation Title: The Effects of the Pesticide
Carbaryl on the Growth of Human Herpesviruses in
Culture

Granted Doctor of Philosophy Degree,
August, 1981

Assistantships and Fellowships:

1976-1977 Teaching Assistantship
The Medical College of Pennsylvania
Microbiology Department
Course: Microbiology for Nursing Students

1977-1979 Teaching Fellowship
The Medical College of Pennsylvania
Microbiology Department
Course: Medical Microbiology

1979-1980 Research Fellowship
The University of Maine at Orono
Microbiology Department

Employment:

1981-1982 Bates College
Lewiston, Maine

Title: Assistant Professor of Biology

Courses Taught: Microbiology/Laboratory
Bioenergetics/Laboratory
Virology
Environmental Microbiology

1983-1984 Saint Joseph's College
North Windham, Maine

Title: Assistant Professor of Biology

Courses Taught: Microbiology/Laboratory
Microbiology for Nursing
Students/Laboratory

1983-1986 University of New England
Sattelite Nursing Program, Lewiston, Maine

Title: Instructor of Biology

Courses Taught: Microbiology/Laboratory
Anatomy and Physiology/Laboratory
Advanced Physiology

1989-Present Bates College
Lewiston, Maine

Title: Associate Professor of Biology
Chair, Medical Studies Program

Courses Taught:
Microbiology/Laboratory,
Virology, Cellular and Molecular
Biology,
Research and Seminar in Cell Culture,
General Biology/Laboratory, Virology,
Seminar in Emerging Infections, Learning
and Teaching Biology, Experimental
Biology at Mount Desert Island
Biological Laboratory, First Year
Seminar in Learning and Teaching Biology

Professional Societies:

1975-Present American Society for Microbiology

1981-Present Sigma Xi
1991-1993 - President of the Southern
Maine Club

1990-Present American Society for Virology

1994-Present National Association of Advisors for the Health Professions
Northeast Association of Advisors for the Health Professions

1995-Present Maine Consortium for Health Professional Advisors

Grants:

1979-1980 Enhancement of the Replication of Varicella-Zoster Virus in Cultured Cells Treated with Sevin-4-Oil
Maine State Forest Service

1990 Biochemistry Teaching Laboratory Instrumentation
NSF Instrumentation and Laboratory Improvement Grant
USE-9050695

1990 Proposal for the Acquisition of Molecular Biology Equipment for Teaching Laboratories
Biotechnology Training Programs

1990 Development of an ELISA for the Quantitation of Varicella-zoster Virus in vitro
Bates College Roger C. Schmutz Faculty Research Grant

1991 Modification of Lipid Metabolism in Human Cells Infected with Cytomegalovirus
Bates College Roger C. Schmutz Faculty Research Grant

1991 The Effects of Cytomegalovirus on Neutral Lipid Metabolism in Human Embryonic Lung Cells
Mellon Summer Research Grant

1992 The Effects of Growth Factors on the Replication of CMV in culture
Hughes Foundation Faculty Research Grant

1993 American Society for Virology Undergraduate Teacher Award
Travel Grant for attendance at National Meeting

1994 The Use of Flow Cytometry for the Quantification of Cytomegalovirus-infected Cells
Hughes Foundation Faculty Research Grant

- 1995 The Effects of Growth Factors on the Replication of Human Cytomegalovirus in Cultured Vascular Cells
Maine Researcher Enhancement Program, Maine EPSCoR
- 1998 E. coli Virulence Factors and Host Response in Urinary Tract Infections
Merck/AAAS Mentor for Fellowship
Candace Hersey - Merck Fellow 1998
- 2000 Learning and Teaching Biology: Proposal for the Development of a 100-Level Service Learning Course
Howard Hughes Medical Foundation Science Education Outreach Grant
- 2000 The Effects of PDGF on the Replication of HCMV in Cultured Human Vascular Cells
Howard Hughes Medical Foundation Group Research Grant (with students)
- 2000 Biology 104 - Learning and Teaching Biology: Request for Funding to Support the Course in Fall 2000
Howard Hughes Medical Foundation Science Education Outreach Grant
- 2004 Biotechnology Model Program: A Collaborative Approach
Howard Hughes/Bates College Science and Math Education Partnership Grant

Publications

- Abrahamsen, L.H., and M. Jerkofsky
Enhancement of Varicella-Zoster Virus Replication in Cultured Human Embryonic Lung Cells Treated with the Pesticide Carbaryl.
Applied and Environmental Microbiology 41(3):652-656 (1981)
- Abrahamsen, L.H., and M. Jerkofsky
Characterization of the Viral Enhancement System of Varicella-Zoster Virus by the Pesticide Carbaryl
Applied and Environmental Microbiology 45(5):1560-1565 (1983)
- Jerkofsky, M., and L.H. Abrahamsen
Variation in the Susceptibility of Human Herpesviruses to Enhancement by the Pesticide Carbaryl
Applied and Environmental Microbiology 45(5):1555-1559 (1983)
- Abrahamsen, L.H.
The Origins of Different Cellular Membranes

Magill's Survey of Science: Life Sciences, Frank N. Magill, Ed., pp. 397-403. Salem Press, 1991.

Abrahamsen, L.H., M. Clay, J.M. Lyle, J.M. Zink, L. Fredrikson, A.J. DeSiervo, and M. Jerkofsky
The Effects of Cytomegalovirus Infection on Polar Lipids and Neutral Lipids in Cultured Human Cells
Intervirolgy 1996; 39:223-229

Cole, A., and L. Abrahamsen
A Junior/Senior Health Professions Workshop
The Advisor 2002; 22(4):55

Abrahamsen, L.
Learning Partnerships Between Undergraduate Biology Students and Younger Learners
Microbiology Education 2004; 5:21-29

Abrahamsen, L.
Service Learning in the Undergraduate Science Curriculum: Partnering College Students with High School and Middle School Classes
Focus on Microbiology Education Winter 2004; 10(2):4-5

Abstracts:

Abrahamsen, L.H. and M. Jerkofsky
Interaction of Varicella-Zoster Virus with Sevin in Cultures of Human Cells
Abstracts - Sixth Annual Maine Biomedical Science Symposium, June 1980, E-23.

Abrahamsen, L.H., and M. Jerkofsky
Susceptibility of Various Human Herpesviruses to Enhancement by the Pesticide Carbaryl
Abstracts - Annual Meeting of the American Society for Microbiology, 1981.

Jerkofsky, M., and L.H. Abrahamsen
Variation in the Susceptibility of Human Herpesviruses to Enhancement by Carbaryl
Abstracts - Seventh Annual Maine Biomedical Science Symposium, June 1981, p. 31.

Jerkofsky, M.A., L.H. Abrahamsen, A. Wasserman and A.J. DeSiervo
Modification of Lipid Metabolism in Varicella-Zoster Infected Cells
Abstracts - Annual Meeting of the American Society for Microbiology, 1982.

Abrahamsen, L.H., L. Fredrikson, M. Clay, A. DeSiervo and M. Jerkofsky
The Effects of Human Cytomegalovirus Infection on the Neutral Lipid Metabolism of Human Embryonic Lung Fibroblasts.

Abstracts - Annual Meeting of the American Society for Virology,
1993, 5-9, p. A13.

Abrahamsen, L.H., L. Fredrikson, M. Clay, A. DeSiervo and M. Jerkofsky
Levels of Phospholipids and Neutral lipids in Human Embryonic
Lung Cells infected with Human herpesviruses
Abstracts - XIVth Washington International Spring Symposium:
Cardiovascular Disease '94 - Cellular and Molecular Mechanisms,
Prevention, Treatment. Washington, D.C. June 6-10, 1994

Abrahamsen, L.H., L. Fredrikson, M. Clay, A.J. DeSiervo and M.
Jerkofsky

The Effects of Human Cytomegalovirus Infection of the Neutral
Lipid Metabolism of Human Embryonic Lung Fibroblasts.

Abstracts - Annual Meeting of the American Society for Virology,
Davis, CA 1993, 5-9, p. A13.

Lyle, J.M. and L.H. Abrahamsen

The Effects of aFGF and Heparin of the Replication of CMV in HEL
Cells

Abstracts - The Diversity of Microbiology Colloquium, Northeast
Branch of the American Society for Microbiology and the Northeast
Section of the Society for Industrial Microbiology, Cambridge,
MA, 1995, p.3.

Abrahamsen, L.H. and J.M. Lyle

The Effects of Acidic Fibroblast Growth Factor on Cytomegalovirus
Infection and Production in HEL MRC-5 Fibroblasts

Abstracts - 21st Annual Maine Biological and Medical Sciences
Symposium, Bar Harbor, ME, June 1995, p. 33.

Hosley, C.M. and L.H. Abrahamsen

The Effects of PDGF on Cytomegalovirus Replication in Cultured
Human Cells

Abstracts - 22nd Annual Maine Biological and Medical Sciences
Symposium, Orono, ME, May 1996, p.24.

Abrahamsen, L.H., C.M. Hosley and J. M. Lyle

The Effects of aFGF, bFGF and PDGF on the Replication of
Cytomegalovirus in Cultured Human Cells

Abstracts - Annual Meeting of the American Society for Virology,
London, Ontario, 1996, P9-1, p.172.

Abrahamsen, L.

Independent Projects as a Requirement in an Undergraduate
Virology Course

Abstracts - Annual meeting of the American Society for Virology
Bozeman, Montana, July 19-23, 1997.

Fischer, W.A II, L. Abrahamsen and K. Palin

Scanning Electron Microscope Study of the Attachment of
Escherichia coli to Human Kidney Cells In Vitro

Abstracts, Twenty fourth Annual Maine Biological and Medical
Sciences Symposium, University of New England, Biddeford, Maine,
May 14-15, 1998.

Lilja, H., M. E. Therrien, K. Palin and L. Abrahamsen
Growth of *Esherichia coli* Isolates in Luria-Bertani Broth, Human
Urine and Artificial Urine
Abstracts, Twenty fourth Annual Maine Biological and Medical
Sciences Symposium, University of New England, Biddeford, Maine,
May 14-15, 1998.

Abrahamsen, L., K. Palin and C. Hersey.
Growth of Uropathogenic Strains of *Esherichia coli* in Artificial
Urine and Human Urine from Males and Females.
American Society for Microbiology Meeting, Chicago, IL, May 29 -
June 3, 1999.

Abrahamsen, L.
Learning and Teaching Biology: A Beginning Level Service Learning
Based Course
American Society for Microbiology Undergraduate Research
Conference, Salt Lake City, Utah, May 16-19, 2002

Cole, A., and L. Abrahamsen
Junior-Senior Health Professions Workshop
National Association of Advisors of the Health Professions Annual
Meeting, Las Vegas, Nevada, June 24-28, 2002.

Abrahamsen, L.
Learning Across Cultures: Microbiological Collaborations between
College and High School Students
American Society for Microbiology Undergraduate Research
Conference, College Park, Maryland, May 16-18, 2003

Schlax, P.E., A. Planchart, L.H. Abrahamsen, and T. G. Lawson
Evidence for a role of the ubiquitin/26S proteasome system
in the rapid turnover of EMCV 3C protease *in vivo*
American Society for Virology 22nd Annual Meeting, Montreal,
Canada, July 2004.