

July, 2015

**CURRICULUM VITAE**

***ERIC S. LOKER***

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**PRESENT ADDRESS:** Biology Department  
University of New Mexico  
Albuquerque, New Mexico 87131  
Office Phone (505) 277-2124  
FAX Number (505) 277-0304  
e-mail: esloker@unm.edu

**HOME ADDRESS:** 609 LaJolla Place  
Albuquerque, NM 87123  
Home Phone: (505) 292-2956

**DATE AND  
PLACE OF BIRTH:** 24 January 1950  
Walton, NY  
U.S. Citizen

**MARITAL STATUS:** Married, two children

**ACADEMIC DEGREES:** Bachelor of Science, 1972  
Cornell University  
Ithaca, NY  
Major: Ecology

Master of Science, 1974  
University of Michigan  
Ann Arbor, Michigan  
Major: Ecology

Doctor of Philosophy, 1979  
Iowa State University  
Ames, Iowa  
Major: Zoology (Immunobiology)

**POSITIONS HELD:**

Graduate Teaching Assistant  
Department of Zoology  
University of Michigan, 1972-1974  
Graduate Teaching Assistant

Department of Zoology  
Iowa State University, 1974-78

Lecturer  
Department of Zoology  
Iowa State University, 1978

Instructor  
Department of Zoology  
Oregon State University, 1979-1982

Postdoctoral Research Associate  
Department of Zoology  
Oregon State University, 1982-1983

Assistant Professor, 1983-1985  
Biology Department  
Virginia Commonwealth University

Assistant Professor, 1985-1990;  
Associate Professor, 1990-1996  
Associate Chairman, 1991-1992  
Regent's Lecturer, 1994-1997  
Professor, 1996-present  
Vice-Chairman, 1995-1997  
Regents' Professor, 2003-present  
Department of Biology Chairman, July, 2003-July, 2009  
Director, Center for Evolutionary and Theoretical Immunology,  
2003-present  
Curator, Division of Parasitology, Museum of Southwestern  
Biology, 2009 – present  
Distinguished Professor, 2012-present

**PROFESSIONAL  
EXPERIENCE:**

Field and laboratory research  
East African Institute for Medical Research  
Mwanza, Tanzania, 1978-1979

Review Panelist  
U.S. Department of Agriculture, Competitive Grants Program,  
Research Grants Panel; 1987

Review Panelist  
Tropical Medicine and Parasitology Ad Hoc Study Section,  
National Institutes of Health, Feb. 1990; Oct. 1990; Oct 1992.,

Oct. 1993, July, 1997, November, 1997, March 2001, July 2002, November, 2002, March, 2003, Feb 2006, Feb, 2008; Sept, 2012

Review Panelist

National Institutes of Health, Special Emphasis Panel  
Tropical Medicine Research Centers, October 16-18, 1995,  
November, 2000, December 2001, Fall, 2011

Review Panelist

National Institutes of Health, Special Emphasis Panel  
Filariasis Research Reagent Resource Center, October 2002  
Schistosomiasis Research Resource Center, Chairman, October  
2002

Consultant for schistosomiasis control program in Cameroon,  
Vector Biology and Control Program, Office of Health, Bureau for  
Science and Technology, Agency for International Development,  
5-23 July, 1990

Member, editorial board, *Journal of Invertebrate Pathology*, three  
year term beginning Nov. 1990

Member, Nominating Committee, American Society of  
Parasitologists, 1991

Member, Nominating Committee, Southwestern Association of  
Parasitologists, 1991

Secretary-Treasurer, Southwestern Association of Parasitologists,  
1992-1995.

Associate Editor for Invertebrate-Parasite Relationships, *Journal  
of Parasitology*, 1993 - 1997

Elected Member, Council, American Society of Parasitologists,  
1995-1998; 2009-present

Chairman, Nominating Committee, American Society of  
Parasitologists, 1996

Co-chair, with Don Duszynski, of the local organizing committee,  
American Society of Parasitologists annual meeting, Albuquerque,  
New Mexico, 29 June – 3 July, 2001

Director, Center for Evolutionary and Theoretical Immunology, an  
NIH-funded Centers of Biomedical Research Excellence

(COBRE) program, 2003-present

World Health Organization Schistosomiasis Experts Committee, 2005

UNM's Howard Hughes Medical Institute Program in Integrative Biological and Biomedical Sciences (PIBBS) Advisory Board, 2007-present

Worked with UNM Legislative Liaison Team to secure funding from New Mexico Legislature for addition to Castetter Hall, 2007 and 2008.

Member, editorial board, *Journal of Helminthology*, 2010-present.

Participant in Gates Foundation SCORE Program for Research and Elimination of Schistosomiasis, organized by Dr. Dan Colley, Athens, Ga, 2009, 2010, 2013

NIH study section, IDeA Program, 16-18 March, 2010, Fall, 2011, Fall 2014

Vice President, American Society of Parasitologists, August 2010 – 2011.

President Elect, American Society of Parasitologists, August 2011– to present.

President, American Society of Parasitologists, August 2012– August 2013.

Evaluator, Gates Foundation Project on Schistosomiasis control in Senegal, 2014

Clark P. Read Mentoring Award, American Society for Parasitologists, 2015

## **DEPARTMENT AND UNIVERSITY SERVICE:**

### **Past Departmental Committee Assignments:**

Molecular Genetics Search Committee, 1987, Chair 1988, 1989  
Immunology/Neurobiology Search Committee, Chair 1994  
Comparative Immunology Search Committee, Chair 2000  
Graduate Student Selection, 1986, 1987, 1988, 1989, 1991, 1992,

1993, 1994, 1996, 1997, 2014  
Graduate Student Policy Committee, 1989, 1990, 1991, 1992,  
1993, 2011  
Biology Graduate Review Committee, 1994  
Departmental Seminar Program, 1991, 1992, 1993, 1996  
Research Day Committee, 1996  
Promotion and Tenure Committee, 1997, 1998, 2001, 2010, 2012  
Undergraduate Policy Committee, 1996, 1997  
Hughes Proposal Governance Committee, 1996, 1997  
Space Committee, 1990, Chair 1998, Chair 1999, 2000, 2001,  
2010  
Salary Advisory Committee, 1998, 2014  
Ad Hoc Committee, Museum Reorganization, 1999  
Departmental Executive Committee, 2000  
Ad Hoc Curriculum Reform Committee, Chair 2001-2  
Departmental Executive Committee 2002

#### **University Committee Assignments:**

Latin American Institute Liaison, 1986, 1987, 1988  
University Task Force on Health Science Curriculum  
Development, 1989  
University Reallocation Committee on Advising, 1991  
UNM Radiation Safety Committee, 1993-1994  
A & S Regent's Lecturer Selection, 1997  
Burroughs Wellcome Selection Committee, 2001  
UNM Animal Care and Use Committee, 2000-2003  
Co-Chair, UNM Institutional Biosafety Committee, 2008-2010  
UNM President's Task Force on Animal Care and Use, 2007-2008  
Member, Search Committee, Vice President for Research, UNM,  
2008  
Campus committee to Assemble NIH Frameworks in Global  
Health Program, 2007-present  
Campus Review of COBRE proposals, 2007  
Internal Advisory committee for Dr. Okada's COBRE program,  
2007-present  
UNM VPR's Review of Internal Competitions, 2010  
Chair, Computer Science Chair Search, 2010-present  
UNM Faculty Salary Equity Review Committee, 2012  
PiBBS Advisory Board, 2012-present  
Internal Advisory committee, North Campus Brain COBRE  
Program, 2010-present  
Associate Provost Search Committees, 2013  
Local representative, Earth and Planetary Science Academic  
Program Review, Nov 2013

## MEMBERSHIP IN PROFESSIONAL SOCIETIES:

American Association for the Advancement of Science  
American Society of Parasitologists  
American Society of Tropical Medicine and Hygiene  
International Society for Developmental and Comparative  
Immunology  
Unitas Malacologia

## AWARDS & GRANTS:

Henry H. Buckley Scholarship  
Cornell University, 1968—1972

New York State Regents Scholarship, 1968—1972

Fulbright-Hays Grant, for one year of study at the East African  
Institute for Medical Research, Tanzania, 1978—1979

Oregon State University Research Council Grant (supported by  
NIH Biomedical Research Support Grant RR07079), for project  
entitled "Parasite-Induced Suppression of Host Defense  
Responses," 1980

Virginia Commonwealth University, For project entitled "Immune  
Evasion and Reproductive Biology of Schistosome Trematodes: In  
Vitro Studies," \$4,988.00, 1983—1984

Virginia Commonwealth University Biomedical Grant for project  
entitled "Acquisition of Molluscan Antigens by Cercariae of  
*Schistosoma mansoni*," \$1,150.00, 1984—85

University of New Mexico BRSB Committee Grant for project  
entitled "Parasite-Induced Activation and Suppression of Host-  
Immune Responses: An Invertebrate Model," \$3,800.00, Nov.  
1985—Jul. 1986.

University of New Mexico Research Allocations Committee Grant  
for project entitled "Immunology of Host-Parasite Relationships:  
An Invertebrate Model," \$2,350.00, Sept. 1985—Jun. 1986.

Principal Investigator for U.S. Agency for International  
Development Grant entitled "Biological Control of Snail-Borne  
Parasites in Kenya," \$115,355 (direct costs), Aug. 1986—Jul.  
1989.

Principal Investigator for National Institutes of Health Grant entitled "Trematode Induced Immunosuppression in Snails," RO1 AI24340, \$140,147 (direct costs), Dec. 1986—Nov. 1989.

Principal Investigator for U.S. Agency for International Development grant entitled "The Role of Biotic and Abiotic Factors in Controlling Disease-Transmitting Snails in Kenya: An Experimental Study," \$118,347 (direct costs), Aug. 1989—Aug. 1992.

Principal Investigator for National Institutes of Health Grant, Competing Renewal of RO1 AI24340, entitled "The Role of Lectins in Snail-Trematode Associations," \$575,022 (direct costs), Dec. 1989—Nov. 1994.

Principal Investigator for National Institute of Health, Small Instrumentation Grant, \$12,100, Sept. 1990 — Aug. 1991.

Principal Investigator for National Institute of Health, Small Instrumentation Grant, \$10,401, Sept. 1991 — Aug. 1992.

Fogarty Senior International Fellowship, to work at the Institute for Molecular Parasitology, University of Glasgow on project entitled "The tsetse-trypanosome molecular interface", 1 Jan-30 June 1992

Co-PI (with several others) on Howard Hughes Medical Institute grant entitled "Laboratory education and research in biology", Dr. K. G. Vogel, PI. \$900,000, 1992-1996.

Co-PI (with several others) on NSF grant entitled "RIMI: confocal microscope facility", Dr. S. Stricker, PI, \$178,823, Oct. 1992-Mar. 1995.

Co-PI (with several others) on NSF grant entitled "RIMI: molecular biology facility", Dr. M. Werner-Washburne, P.I. \$321,000, Oct. 1992 - Mar. 1995.

Principal Investigator for U.S. Agency for International Development grant entitled "The impact of crayfish on schistosomiasis transmission and non-target organisms in man-made habitats in central Kenya", \$150,000, Sept. 1993-Sept. 1996.

Principal Investigator for National Institutes of Health Grant, Competing Renewal of RO1 AI24340 entitled "Biology of Trematode-Snail Associations", \$821,404 (direct costs), Dec.

1994-Nov. 1999.

Principal Investigator for Medical Service Corporation International's Schistosomiasis Research Program grant entitled "Molecular studies of schistosome-snail interactions", 1996-1997, \$35,714 direct costs, with probable extension for one more year with additional funds for each year. Egyptian Co-PI Dr. M.H. Mansour has a separate budget.

Principal Investigator for NIH Grant entitled "Evolution of *Schistosoma mansoni* and its hosts", RO1AI44913, \$1,009,989 (direct costs), 1 April 1999-31 March 2004

Principal Investigator for National Institutes of Health Grant, Competing Renewal of RO1 AI24340 entitled "Biology of Trematode-Snail Associations", \$1,032,435 direct costs; 1 December 1999 – 30 November, 2004

Principal Investigator (U.S.) along with Dr. Wael Lotfy (Egypt) for U.S.-Egypt Joint Science and Technology Board grant entitled "*Biomphalaria* in Egypt: Understanding the changing biology of the snails that transmit schistosomiasis", \$50,000, 1 August 2002 – 31 July 2004

Principal Investigator, COBRE: Center for Evolutionary and Theoretical Immunology. NIH, National Center for Research Resources, P20 RR018754; Total Award: 5 years, direct costs, \$7,732,729; Duration: 30 September 2003 – 30 June 2008.

Principal Investigator for NIH grant entitled "Evo-epidemiology of *Schistosoma mansoni* in western Kenya", Total Award: 5 years, direct costs \$1,497,748; Duration: 1 April 2004 – 31 March, 2009.

Principal Investigator for NIH grant, Competing Renewal of RO1 AI24340 entitled "Biology of Trematode-Snail Associations"; Total Award: 5 years, direct costs \$1,125,000; Duration: 1 March 2006 – 28 Feb 2011.

Principal Investigator (U.S.) along with Dr. Wael Lotfy (Egypt) for U.S.-Egypt Joint Science and Technology Board grant entitled "Praziquantel resistance in Egypt: testing and use of an in vitro assay". Total award, 2 years, total costs \$60,000; Duration 1 August 2005 – 31 July 2007.

Principal Investigator for NIH grant entitled "Evo-epidemiology of *Schistosoma mansoni* in children in Kenya", NIH Fogarty



International Center. RTW008127A; Total Award: 3 years, direct costs, \$110,000; Duration: 1 July 2008 – 30 June 2011; no-cost extension.

Principal Investigator, COBRE: Center for Evolutionary and Theoretical Immunology. NIH, National Center for Research Resources, P20 RR018754; Total Award: 5 years, total award \$10.7M; Duration: 1 July 2009 – 30 June 2014.

Principal Investigator for NIH grant entitled “Snail-related studies of transmission and control of schistosomiasis in Kenya”, Total Award: 5 years, direct costs \$1,250,000; Duration: 1 July 2012 – 30 June, 2017.

Principal Investigator for Gates Foundation Grand Challenges grant entitled: Use of amphistomes to augment control and elimination of schistosomiasis in Africa”. Duration: 1 November 2013-June 2015, \$100,000.

Principal investigator for Gates SCORE grant entitled “Crayfish and control of schistosomiasis transmission in Kenya: A 15-year follow-up survey”. Duration: 1 December 2013-30 November 2014, \$30,000.

Principal Investigator, COBRE: Center for Evolutionary and Theoretical Immunology. NIH, National Center for Research Resources, P20 RR018754; Total Award: 5 years, total award \$5.4M total; Duration: 1 June 2014 – 1 July 2019.

**PENDING FUNDING:**

None

**GRADUATE STUDENTS DIRECTED:**

**PAST STUDENTS:**

Boston, M.E., 1985. Adherence of *Biomphalaria glabrata* hemocytes to the larvae of the trematodes *Schistosoma mansoni* and *Echinostoma paraensei*: underlying mechanisms. Virginia Commonwealth University, Master's Thesis.

Wattam, A.R., 1987. Cross-reactive antigens from *Schistosoma mansoni* cercariae and *Biomphalaria glabrata*: an immunoblot analysis. University of New Mexico, Master's Thesis.

Cimino, D., 1990. The interference hypothesis: characterization and functional properties of secretory/excretory products of *Echinostoma paraensei* larvae, University of New Mexico, Master's Thesis.

Couch, L., 1990. Hemolymph agglutinins from *Biomphalaria glabrata*: characterization and response to exposure to trematode larvae. University of New Mexico, Master's Thesis.

Dominguez, C., 1990. *Thiara granifera* from the Dominican Republic: An assessment of its potential in the biological control of schistosomiasis. University of New Mexico, Ph.D. Dissertation.

Bandoni, Susan M., 1991. Evolutionary relationships in the genus *Biomphalaria* Preston, 1910 (Gastropoda: Planorbidae). University of New Mexico, Ph.D. Dissertation, 1991.

Hofkin, Bruce V., 1991. The role of the North American crayfish *Procambarus clarkii* in the biological control of schistosomiasis in Kenya. University of New Mexico, Ph.D. Dissertation, 1991.

De Gaffe, Guenet, 1994. Mechanisms of trematode-induced interference: correlating in vitro assays with in vivo realities.

Boyce, Tracy, 1994. The use of a geographic information system (GIS) in ARC/INFO to analyze the distribution of the human schistosome-transmitting snails in Kenya. University of New Mexico, M.S. Thesis, 1994.

Hanelt, Ben, 1997. Development and use of a nested PCR protocol to study the development of *Schistosoma mansoni* in *Biomphalaria glabrata*., M.S. Thesis, June, 1997

Mirrales-Salazar, Jacqueline, 1997. A comparison of components of the internal defense system of *Biomphalaria glabrata* susceptible or resistant to *Schistosoma mansoni* infection, M.S. Thesis, December, 1997.

Meyer, Kirsten. 1999. Characterization of expressed sequence tags from the colonial tunicate *Botryllus schlosseri*. M.S. thesis.

Sapp, K.K. 1999. Mechanisms underlying digenean-snail specificity: a comparative approach. Ph.D. Dissertation, May, 1999.

Leonard, Pascale. 2002. Genes encoding fibrinogen-related proteins (FREPs) from the snail *Biomphalaria glabrata*. Ph.D. dissertation, May, 2002.

DeJong, Randy, Ph.D., 2003. Phylogeography and genetic diversity of the human parasite *Schistosoma mansoni* and its snail host *Biomphalaria*, Ph.D. dissertation, May, 2003.

Hertel, L.A., Ph.D., 2004, Biology of a symbiotic protist inhabiting *Biomphalaria glabrata*.

Nowak, Thomas S., 2005, PhD. Stage specific gene expression in digenetic trematodes.

Barker, Nirvana, M.S. 2006. Plan II (non-thesis masters degree).

Olp, Jon. M.S. 2007. Plan II (non-thesis master's degree)

Melman, Sandra, M.S. 2008. Reduced susceptibility of Kenyan *Schistosoma mansoni* to praziquantel following repeated exposures: origin, measurement and likelihood of persistence, M.S. Defense July, 2008.

### **CURRENT STUDENTS**

Ramesh Devkota	PhD student	2009-present	Enrolled student
Sarah Buddenborg	PhD student	2011-present	Enrolled student
Erika Gendron	PhD student	2011-present	Enrolled student
Arinder Arora	PhD student	2011-present	Enrolled Student
Martina Laidemitt	PhD Student	2012-present	Enrolled student
Lijun Lu	PhD Student	2013-present	Enrolled student

### **POST-DOCTORAL COLLEAGUES MENTORED:**

Dr. Shinichi Noda, 1988  
Dr. Ryuichi Uchikawa, 1991  
Dr. Fernando Monroy, 1991, 1992  
Dr. Coen Adema, 1994-2008  
Dr. Scott Snyder, 1998-1999  
Dr. Lynn Hertel, 2004-2005  
Dr. Si Ming Zhang, 2000-present  
Dr. Jess Morgan, 2000-2004  
Dr. Younghun Jung, 2002  
Dr. Wael Lotfy, 2004-2010  
Dr. Sara Brant, 2003-2010  
Dr. Michelle Steinauer, 2004-2009  
Dr. Barbara Stout, 2006-2008  
Dr. Ben Hanelt – 2007 – 2010  
Dr. Patrick Hanington – 2009 – 2011

### **COURSES TAUGHT:**

Introductory Biology (121) – 1987, 1989, 1993, 1995, 1997, 2001, 2003

Human Anatomy and Physiology (Bio 136) – 1987, 1988  
Invertebrate Zoology (Bio 371) – 1985, 1991, 1992, 1994, 1996, 1998, 2012  
Parasitology (Bio 482) – 1986, 1987, 1988, 1989, 1993, 1996, 1997, 1998, 2007, 2012  
Biology of Disease Vectors (Bio 480) – 1990, 1994, 2010, 2013, 2014  
Biology of Infectious Organisms (Bio 490) – 2002, 2004, 2006, 2008, 2009, 2011, 2014  
Comparative Immunology (Bio 402/502) – 1997, 2010, 2011, 2013  
PIBBs Course - 2011  
Parasites and Hosts (402/502) – most semesters since 1985

### **INVITED SEMINAR PRESENTATIONS:**

(From 1992)

Department of Zoology, University of Glasgow, Scotland, 30 April, 1992  
Department of Biological Sciences, University of Keele, Staffordshire, 16 June 1992  
University of Perpignan, Perpignan, France, 22 June 1992  
Schistosomiasis Unit, British Museum (Natural History), London, 13 July 1992  
University of Wisconsin, Madison, 30 March 1993  
Department of Microbiology, University of New Mexico, 15 November 1993  
Department of Zoology, Oregon State University, April, 1994  
Blankenbaker Lecturer, Veterinary Molecular Biology, Montana State University, 3 May, 1994  
Department of Biological Sciences, University of California, Santa Barbara, December, 1994  
Invited Symposium Speaker, American Society of Zoologists, 5 January 1995  
Banquet Speaker, Annual Midwestern Conference of Parasitologists, 3 June 1995  
Invited Symposium Speaker, Canadian Society of Zoologists, 12-16 May, 1998  
Invited Speaker, Centro de Pesquisas Rene Rachou, Belo Horizonte, Brazil, 13 Aug. 1999  
Invited Symposium Speaker, American Association of Immunologists, Seattle, Washington, 12 May, 2000  
Invited Plenary Lecture, 6th Int Congress on Medical & Applied Malacology, Havana, Cuba, 4 Sept, 2002  
NSF sponsored workshop on the future of Comparative Immunobiology, Charleston, South Carolina, 23-25 February, 2002  
Theodore Bilharz Research Institute, Cairo, Egypt, 1 October, 2002  
University of Texas Medical Branch, Galveston, 21 November, 2002  
University of Peradeniya, Sri Lanka, December, 2003  
Washington State University, October, 2005  
University of California, Merced, January, 2008  
University of Alberta, April, 2008  
New Mexico State University, March, 2009  
Johns Hopkins University, April, 2009  
Rocky Mountain Meeting of Parasitologists Plenary speaker, September, 2010  
Southeastern Louisiana Biology department Seminar, February, 2010  
Japanese Society of Parasitology, Tokyo, March, 2013  
Southeastern Society of Parasitologists Meeting, Western Kentucky University, April, 2013  
Welcome Trust Advanced Courses and Scientific Conferences, The evolution of parasite genomes and origins of parasitism, Cambridge, April 2013

Schistosomiasis consortium for Operational Research and Evaluation (SCORE) meeting, Athens Georgia, June 2013  
Japanese Society of Parasitology, Tokyo, March, 2013  
Sanger Center Evolution of Parasitism and Genomes Conference, Cambridge, April, 2013  
Society for Invertebrate Pathology, Pittsburg, August, 2013  
British Society for Parasitology, Cambridge, April, 2014

#### **PAPERS PRESENTED AT PROFESSIONAL MEETINGS:**

Loker, E.S. 1977. Host-parasite interaction between *Lymnaea catascopium* and *Schistosomatium douthitti*. Presented at the 29th Annual Conference of Midwestern Parasitologists. Kansas State University, Manhattan, KS, 9-11 June 1977.

Loker, E.S. 1977. Host parasite interactions between *Lymnaea catascopium* and *Schistosomatium douthitti*. Presented at the 52nd Annual Meeting of the American Society of Parasitologists, Hotel Sahara, Las Vegas, Nevada, 14-19 August 1977.

Loker, E.S. 1978. Exposure of the freshwater snail *Lymnaea catascopium* to irradiated miracidia of *Schistosomatium douthitti* (Trematoda: Schistosomatidae). Presented at the Fourth International Congress of Parasitology, Warsaw, Poland, 19-26 August 1978.

Loker, E.S. 1979. Cercariae from the Mwanza region of Tanzania. Presented at the 54th Annual Meeting of the American Society of Parasitologists, Radisson Downtown Hotel, Minneapolis, MN, 29 July-3 August 1979.

Loker, E.S. and Bayne, C.J. 1981. Immunologic interactions between the trematode *Schistosoma mansoni* and the hemolymph components of its intermediate host snail *Biomphalaria glabrata*. Presented at the 14th Annual Meeting of the Society of Invertebrate Pathology, Montana State University, Bozeman, Montana, 17-21 August 1981.

Loker, E.S. and Bayne, C.J. 1981. *Schistosoma mansoni* and *Biomphalaria glabrata*: In vitro studies of parasite-host encounters. Presented at the 30th Annual Meeting of the American Society of Tropical Medicine and Hygiene, San Juan, Puerto Rico, 16-20 November 1981.

Loker, E.S. and Bayne, C.J. 1982. Cell-mediated cytotoxicity in schistosomiasis: the molluscan host. Presented at the Fifth International Congress of Parasitology, Toronto, Canada, 7-14 August 1982.

Bayne, C.J. and Loker, E.S. 1982. Cell-mediated cytotoxicity in an invertebrate host-parasite system. Poster presented at the Pacific Northwest Immunologists Annual Meeting, Banff, Alberta, Canada, 29-31 May 1982.

Bayne, C.J., Loker, E.S., Boswell, C.A., Yui, M.A. and Stephens, J.A. 1982. Effects of antibody on the adherence to, and killing of *Schistosoma mansoni* sporocysts by hemocytes of

*Biomphalaria glabrata*. Poster presented at the American Society of Zoologists Annual Meeting, Louisville, Kentucky, 27-30 December 1982.

Loker, E.S. 1983. Hemolymph components from *Biomphalaria glabrata* and their in vitro interactions with trematodes. Presented at the President's Symposium at the American Society of Parasitologists Annual Meetings, San Antonio, Texas, 4-8 December 1983.

Loker, E.S., Boston, M.E. and Bayne, C.J. 1984. In vitro adherence of *Biomphalaria glabrata* hemocytes to larvae of *Schistosoma mansoni* and *Echinostoma paraensei*. Presented at the 33rd Annual Meeting of the American Society of Tropical Medicine and Hygiene, Baltimore Maryland, 3-6 December 1984.

Bayne, C.J., Loker, E.S. and Yui, M.A. 1985. Interference with natural resistance is mediated by parasitic (echinostome) influence on host cytotoxic cells. Presented at meetings entitled "Macrophages in infection immunity." Elsinore, Denmark, 17-21 May 1985.

Loker, E.S. 1985. Leucocytosis and precipitate formation in hemolymph of *Biomphalaria glabrata* infected with *Echinostoma paraensei*. Presented at the 60th Annual Meeting of the American Society of Parasitologists, Athens, Georgia, 4-8 August 1985.

Loker, E.S. and Hertel, L.A. 1986. Alterations in *Biomphalaria glabrata* hemolymph resulting from infection with the trematode *Echinostoma paraensei*. Presented at the 61st Annual Meeting of the American Society of Parasitologists, Denver, Colorado, 7-11 December 1986.

Wattam, A.R. and Loker, E.S. 1986. Immunoblot analysis of antigens from *Biomphalaria glabrata* hemolymph and digestive gland and *Schistosoma mansoni* cercariae. Presented at the 61st Annual Meeting of the American Society of Parasitologists, Denver, Colorado, 7-11 December 1986.

Loker, E.S. and Hertel, L.A. 1987. *In vitro* cultivation of *Echinostoma paraensei* primary sporocysts. Presented at the 62nd Annual Meeting of the American Society of Parasitologists, Lincoln, Nebraska, 2-5 August 1987.

Loker, E.S., Cimino, D. and Tripp, G.A. 1987. *Biomphalaria glabrata* and *Echinostoma paraensei*: influence of host size on parasite development. Presented at the 62nd Annual Meeting of the American Society of Parasitologists, Lincoln, Nebraska, 2-5 August 1987.

Cimino, D.F. and Loker, E.S. 1988. An autoradiographic analysis of secretory/excretory products of sporocysts and rediae of *Echinostoma paraensei*. Presented at the 21st Annual Meeting of the Southwestern Association of Parasitologists, Lake Texoma, Oklahoma, 14-16 April 1988.

Noda, S. and Loker, E.S. 1988. Effects of infection with *Echinostoma paraensei* on morphology and phagocytic activity of hemocytes of M line *Biomphalaria glabrata*. Presented at the 21st Annual Meeting of the Southwestern Association of Parasitologists, Lake Texoma, Oklahoma, 14-16 April 1988.

Couch, L. and Loker, E.S. 1988. Observations on a trematode-induced agglutinin molecule from *Biomphalaria glabrata* plasma. Presented at the 21st Annual Meeting of the Southwestern Association of Parasitologists, Lake Texoma, Oklahoma, 14-16 April 1988.

Hofkin, B.V., Koech, D.K. and Loker, E.S. 1988. Distributional patterns of freshwater snails and associated trematodes in Kenya. Presented at the 21st Annual Meeting of the Southwestern Association of Parasitologists, Lake Texoma, Oklahoma, 14-16 April 1988.

Stryker, G.A., Dominguez, C.A., Koech, D.K. and Loker, E.S. 1988. Consumption of eggs and juveniles of *Biomphalaria* by African ampullariid snails and by *Thiara granifera*: A laboratory study. Presented at the 21st Annual Meeting of the Southwestern Association of Parasitologists, Lake Texoma, Oklahoma, 14-16 April 1988.

Bandoni, S.M., Mulvey, M., Koech, D.K. and Loker, E.S. 1988. Electrophoretic and morphological variation in Kenyan populations of *Biomphalaria pfeifferi* (Krause, 1848), Dunker, 1894 and *Biomphalaria sudanica* (Martens, 1870) Pfeiffer, 1870-76. Presented at the 21st Annual Meeting of the Southwestern Association of Parasitologists, Lake Texoma, Oklahoma, 14-16 April 1988.

Couch, L. and E.S. Loker. 1988. Observations on a trematode-induced agglutinin molecule from *Biomphalaria glabrata* plasma. Presented at the 63rd Annual Meeting of the American Society of Parasitologists, Winston-Salem, North Carolina, 31 July - 4 August 1988.

Cimino, D.F. and E.S. Loker. 1988. An SDS-PAGE and autoradiographic analysis of secretory/excretory products of sporocysts and redia of *Echinostoma paraensei*. Presented at the 63rd Annual Meeting of the American Society of Parasitologists, Winston-Salem, North Carolina, 31 July - 4 August 1988.

Noda, S., E.S. Loker and L.A. Hertel. 1988. Effects of infection with *Echinostoma paraensei* on morphology and phagocytic activity of M line *Biomphalaria glabrata* hemocytes. Presented at the 63rd Annual Meeting of the American Society of Parasitologists, Winston-Salem, North Carolina, 31 July - 4 August 1988.

E.S. Loker, D.K. Koech, and B.V. Hofkin. 1988. Distributional patterns of freshwater snails and associated trematodes in Kenya. Presented at the 63rd Annual Meeting of the American Society of Parasitologists, Winston-Salem, North Carolina, 31 July - 4 August 1988.

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