

## Sean M. Philpott

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### EDUCATION

2003-2006	M.S.	Bioethics Union College, Schenectady, NY.
1996-2001	Postdoctoral Training	Infectious Diseases New York State Department of Health, Albany NY.
1992-1996	Ph.D.	Public Health Microbiology University of California at Berkeley.
1987-1992	B.S. (Summa cum Laude)	Microbiology University of California at San Diego.
1987-1992	B.A. (Summa cum Laude)	Biological Anthropology University of California at San Diego.

### SUMMARY OF PROFESSIONAL EXPERIENCE – RESEARCH

2009-present	Assistant Professor, The Bioethics Program, Union Graduate College, Schenectady NY.
2009-present	President, Verdade Consulting Group, LLC, Arlington VA.
2009	Consultant, Global Campaign for Microbicides, Washington DC.
2007-2009	Science and Ethics Officer, Global Campaign for Microbicides, Washington DC.
2006-2007	Associate Professor of Medicine, Albany Medical College, Albany NY.
2005-2007	Research Faculty, Alden March Bioethics Institute, Albany Medical College, Albany NY.
2001-2006	Research Scientist, New York State Department of Health, Albany NY.
1996-2001	Research Affiliate, New York State Department of Health, Albany NY.
1994-1996	Field Studies Manager, School of Public Health, University of California at Berkeley.
1992-1993	Epidemiological Field Investigator, School of Public Health, University of California at Berkeley.
1991-1992	Research Assistant, The Salk Institute for Biological Studies, La Jolla CA.
1990-1991	Epidemiological Field Investigator, United Nations High Commission for Refugees, Nairobi, Kenya.
1990-1991	Clinical Microbiologist, Kenyan Health Service, Nairobi, Kenya.

## **SUMMARY OF PROFESSIONAL EXPERIENCE – ADMINISTRATIVE AND REGULATORY**

2009-present Chair, U.S. Environmental Protection Agency Human Studies Review Board.  
2008-present Prospective Expert, European & Developing Countries Clinical Trials Partnership.  
2007-present Science and Ethics Officer, Global Campaign for Microbicides, Washington DC.  
2007-present Prospective Expert, AIDS Accountability International.  
2006-present Member, U.S. Environmental Protection Agency Human Studies Review Board.  
2006-2007 Associate Director, Alden March Bioethics Institute, Albany Medical College, Albany NY.  
2005-2007 Member, New York-Mid-Atlantic Consortium for Genetic and Newborn Screening Services (NYMAC).  
2005-2007 Member, New York State Working Group in Bioethics.  
2006-2007 Executive Editor, American Journal of Bioethics.  
2005-2006 Managing Editor, American Journal of Bioethics.  
2005-2007 Coordinating Director, Benchside Ethics Consultation Service, Alden March Bioethics Institute, Albany Medical College, Albany NY.  
2005-2006 Member, CCR5 Antagonists in HIV Therapy Working Group, Forum for Collaborative HIV Research, Washington DC.  
2003-2007 Member, New York State Department of Health Institutional Review Board.

## **SUMMARY OF PROFESSIONAL EXPERIENCE – TEACHING**

2009-present Assistant Professor, Union Graduate College-Mount Sinai School of Medicine Bioethics Program.  
Courses taught: Research Ethics (Fall 2009)  
Research Ethics 2 (Winter 2010)  
Masters Project 1 (Winter 2010)  
Thesis Advisor: Megan Kankis (2009-10)  
Amrie Otto (2009-10)  
Dan Patrone (2009-10)  
Kim Van Wormer (2009-10)  
Also North American Coordinator for the Fogarty-Funded Advanced Certificate Program: "E-Education in Research Ethics: Central and Eastern Europe."  
2007-2009 Associate Faculty, Union Graduate College-Mount Sinai School of Medicine Bioethics Program.  
Courses taught: Health and Human Values (Summer 2008)  
Research Ethics (Fall 2008)  
Masters Project 1 (Winter 2009)  
Masters Project 2 (Spring 2009)  
Online Research Ethics Practicum (Spring 2009)  
Onsite Research Ethics Practicum (Spring 2009)  
Health and Human Values (Summer 2009)  
Thesis Advisor: Amber Wood (2008-9)

- 2006-2007 Associate Professor of Medicine, Albany Medical College, Albany NY.  
Courses taught: Health, Care and Society 3 (Spring 2006, Fall 2006)
- 2006 Interim Co-Director – Masters Program in Bioethics, Union Graduate College, Schenectady, NY / Albany Medical College, Albany NY.
- 2004-2007 Adjunct Associate Professor, Department of Biomedical Sciences, School of Public Health, State University of New York at Albany  
Courses taught: Virology - Retrovirus replication (BMS 553 – Fall 2004)  
Research Ethics (BMS 670/EHT 675 – Fall 2004)  
Research Ethics (BMS 670/EHT 675 – Spring 2005)  
Directed Readings (BMS 694 – Spring 2005)  
Academic Honesty Workshop for Students (Fall 2005, 2006)  
Research Ethics (BMS 670/EHT 675 – Fall 2005)  
Research Ethics (BMS 670/EHT 675 – Spring 2006)
- Dissertation Cmts: Bin Zhou (2007-10)  
Christopher Lauricella (2004-6)
- 1995-1996 Instructor - Anatomy and Physiology, Meiji School of Oriental Medicine, San Francisco CA.
- 1992-1996 Instructor - Public Health Microbiology Laboratory, School of Public Health, University of California at Berkeley.
- 1993-1996 Instructor - Introduction to Biology Laboratory, Department of Integrative Biology, University of California at Berkeley

#### **PROFESSIONAL AFFILIATIONS**

American Association for the Advancement of Science  
American Association for Cancer Research  
American Public Health Association  
American Society for Bioethics and Humanities  
American Society for Microbiology  
International AIDS Society

#### **PROFESSIONAL HONORS**

- 1998-2001 National Institute of Health NRSA Grant.  
1996 Ridpath Award, University of California at Berkeley.  
1994-1996 National Institute of Health Genetics Training Grant.  
1993 Levine Fellowship, University of California at Berkeley.  
1993 Regents Fellowship, University of California at Berkeley.  
1992 Wellness Fellowship, University of California at Berkeley.  
1992 Phi Beta Kappa.  
1992 Halloway Award, University of California at San Diego.

#### **PATENTS**

- “Analysis of HIV-1 coreceptor use in the clinical care of HIV-1-infected patients,” US patent number 6,727,060 (2003).  
“Analysis of HIV-1 coreceptor use in the clinical care of HIV-1-infected patients,” US patent number 7,294,458 (2007).  
“Heteroduplex tracking assay,” US patent number 7,344,830 (2008).  
“Analysis of HIV-1 coreceptor utilization in the clinical care of HIV-1-infected patients,” European patent application 01971329.6 (pending).

## LICENSING AGREEMENTS

Quest Diagnostics, Inc. "Analysis of HIV-1 co-receptor utilization in the clinical care of HIV-1-infected patients." September 2001.

Pathway Diagnostics. "Analysis of HIV-1 co-receptor utilization by using a heteroduplex tracking assay (North American rights)", July 2006.

## PEER-REVIEWED PUBLICATIONS

### PUBLISHED/IN PRESS

**Philpott S**, Agaard AW. Safety and regulatory issues in the review, approval and marketing of generic biologics in the United States. BioProcess International, 2010; in press.

Flanigan B, **Philpott S**, Strosberg M. Protection of human participants enrolled in critical care research trials. Journal of Intensive Care Medicine 2010; in press.

Gordon E, **Philpott S**. The convergence of research and clinical practice: How Institutional Review Boards review Humanitarian Use Device applications. Journal of Empirical Research on Human Research Ethics 2008; 3(4):81-98.

Heise L, **Philpott S**. Predicting the unpredictable real-world impact of ARV-based microbicides. Proc Natl Acad Sci USA. 2008;105(44):E73

Kemal KS, Beattie T, Dong T, Weiser B, Kuiken C, Sutton J, Lang D, Yang H, Peng YC, Kaul R, Collman R, **Philpott S**, Rowland-Jones S, Burger H. Transition from long-term nonprogression to HIV-1 disease associated with escape from cellular immune control. Journal of Acquired Immune Deficiency Syndromes 2008; 48(2):119-26.

Weiser B, **Philpott S**, Klimkait T, Burger H, Kitchen C, Bürgisser P, Gorgievski M, Perrin L, Piffaretti J-C, Ledergerber B, HIV Swiss Cohort Study. HIV-1 coreceptor usage and CXCR4-specific viral load predict clinical disease progression during antiretroviral therapy. AIDS 2008; 22(4):469-79.

Cardozo T, Kimura T, **Philpott S**, Weiser B, Burger H, Zolla-Pazner S. Structural basis of co-receptor selectivity in the HIV-1 V3 loop. AIDS Research and Human Retroviruses 2007; 23(3): 415-26.

Fossett J, Ouellette A, **Philpott S**, Magnus D, McGee G. The Bioethics of Federalism: States and Moral Pluralism. Hastings Center Report 2007; 37(6): 24-35.

**Philpott S**. The EPA's Human Studies Review Board and the ethics of pesticide testing using human subjects. ASBH Exchange 2006; 9(3): 3,7.

Chakraborty R, Reinis M, Rostron T, **Philpott S**, Dong T, D'Agostino A, Musoke R, de Silva E, Stumpf M, Weiser B, Burger H, Rowland-Jones SL. Nef gene sequence variation among HIV-1-infected African children. HIV Medicine 2006; 7: 75-84.

Karchava M, Pulver W, Smith L, **Philpott S**, Sullivan TJ, Wethers J, Parker MM. Prevalence of drug resistance mutations and non-clade B strains in HIV-infected infants in New York State. Journal of Acquired Immune Deficiency Syndromes 2006; 42(5):614-9.

Kay DM, Bird TD, Zabetian CP, Factor SA, Samii A, Higgins DS, Nutt J, Roberts JW, Griffith A, Leis BC, Montimurro JS, **Philpott S**, Payami H. Validity and utility of a LRRK2 G2019S mutation test for the diagnosis of Parkinson's disease. Genetic Testing 2006; 10(3): 221-7.

Puig-Basagoiti F, Tilgner M, Forshey BM, **Philpott SM**, Espina NG, Wentworth DE, Falgout B, Ren P, Ferguson DM, Shi P-Y. Triaryl pyrazoline compound inhibits flavivirus RNA replication. Antimicrobial Agents and Chemotherapy 2006; 50(4):1320-9.

Torian LV, Blank S, Kellerman SE, Frieden TR, Ho DD, Boden D, Markowitz M, Mullen M, Parker MM, **Philpott S**, Roome A, McKenna MR, Folks T, Heneine W. Investigation of a new diagnosis of multidrug-resistant, dual-tropic HIV-1 infection — New York City, 2005. Morbidity

- and Mortality Weekly Report 2006; 55(29): 793-6.
- Philpott S.** Eggs, lies and compromise. American Journal of Bioethics 2005; 5: 1-2.
- Philpott S,** Burger H, Tsoukas C, Foley B, Anastos K, Kitchen C, Weiser B. Human immunodeficiency virus type 1 (HIV-1) genomic RNA sequences in the female genital tract and blood: compartmentalization and inpatient recombination. Journal of Virology 2005; 79: 353-63.
- McGee G, Shelton W, **Philpott S.** A pragmatic approach to the ethics of reproductive human cloning. NYSBA Health Law Journal 2005; 10(3): 56-62.
- McGee G, **Philpott S,** Kuhn V, Robertson-Kraft C. Patrizio P. Bioethics in embryonic research. In: Encyclopedia of life sciences, London: Nature Publishing Group, <http://www.els.net/doi:10.1038/npg.els.0003486>.
- Schroeder T, Burger H, Weiser B, Bengualid V, Kimani J, Anzala AO, Parker M, Lamson D, **Philpott S.** Characterization of intersubtype recombinant HIV-1 genomes using a non-radioactive heteroduplex tracking assay. AIDS Research and Human Retroviruses 2005; 21: 314-8.
- Fang G, Weiser B, Kuiken C, **Philpott S,** Rowland-Jones S, Plummer F, Kimani J, Shi B, Kaul R, Bwayo J, Anzala O, Burger H. Recombination following superinfection by HIV-1. AIDS 2004; 18: 153-9.
- Fang G, Kuiken C, Weiser B, Rowland-Jones S, Plummer F, Chen C-H, Kaul R, Anzala AO, Bwayo J, Kimani J, **Philpott SM,** Kitchen C, Sinsheimer JS, Gaschen B, Lang D, Shi B, Kemal KS, Rostron T, Brunner C, Beddows S, Sattenau Q, Paxinos E, Oyugi J, Burger H. Long-term survivors in Nairobi: complete HIV-1 RNA sequences and immunogenetic associations. Journal of Infectious Disease 2004; 190: 697-701.
- Kitchen CMR, **Philpott S,** Burger H, Weiser B, Anastos K, Suchard MA. Evolution of HIV-1 coreceptor usage during antiretroviral therapy: a Bayesian approach. Journal of Virology 2004; 78: 11296-302.
- Philpott S,** Burger H, Tarwater P, Lu M, Gange SJ, Anastos K, Cohen M, Greenblatt RM, Kovacs A, Minkoff H, Young M, Miotti P, Dupuis M, Chen C-H, Weiser B. CCR2 genotype and disease progression in a treated population of HIV-1-infected women. Clinical Infectious Disease 2004; 39: 861-5.
- Shi B, **Philpott S,** Weiser B, Kuiken C, Fowke K, Fang G, Brunner C, Plummer F, Rowland-Jones S, Bwayo J, Kimani J, Anzala A, Burger H. Construction of an infectious molecular clone of HIV-1 from a patient with a subtype D-C recombinant virus. AIDS Research and Human Retroviruses 2004; 20: 1015-8.
- Philpott S,** Weiser B, Tarwater P, Vermund SH, Kleeberger CA, Gange SJ, Anastos K, Cohen M, Greenblatt RM, Kovacs A, Minkoff H, Young MA, Miotti P, Dupuis M, Chen C-H, Burger H. CCR5 genotype and susceptibility to transmission of HIV-1 in women. Journal of Infectious Disease 2003; 187:569-75.
- Philpott SM.** HIV-1 coreceptor usage, transmission, and disease progression. Current HIV Research 2003; 1: 217-27.
- Kemal KS, Foley B, Burger H, Anastos K, Minkoff H, Kitchen C, **Philpott SM,** Gao W, Robison E, Holmes S, Dehner C, Beck S, Meyer WA 3rd, Landay A, Kovacs A, Bremer J, Weiser B. HIV-1 in genital tract and plasma of women: compartmentalization of viral sequences, coreceptor usage, and glycosylation. Proceedings of the National Academy of Science USA 2003; 100: 12972-12977.
- Buehring GC, **Philpott SM,** Choi KY. Humans have antibodies reactive with bovine leukemia virus. AIDS Research and Human Retroviruses 2003; 19: 1105-13.
- Fang G, Weiser B, Kuiken C, **Philpott S,** Rowland-Jones S, Plummer F, Kimani J, Shi B, Kaul R, Bwayo J, Anzala O, Burger H. Recombination following superinfection by HIV-1. AIDS 2003;

18: 153-9.

Chakraborty R, Gillespie GMA, Reinis M, Rostron T, Dong T, **Philpott S**, Burger H, Weiser B, Peto T, Rowland-Jones SL. HIV-1-specific CD8 T cell responses in a pediatric slow progressor infected as a premature neonate. AIDS 2002; 16: 2085-7.

**Philpott S**, Weiser B, Anastos K, Ramirez-Kitchen CM, Robison E, Meyer WA, Sacks HS, Mathur-Wagh U, Brunner C, and Burger H. Preferential suppression of CXCR4-specific strains of HIV-1 by antiviral therapy. Journal of Clinical Investigation 2001; 107:431-438.

**Philpott SM**, Buehring GC. Defective DNA repair in cells infected with Human T-cell Leukemia Virus/Bovine Leukemia Viruses: Role of tax gene. Journal of the National Cancer Institute 1999; 91: 933-942.

**Philpott SM**, Burger H, Charbonneau T, Grimson R, Vermund S, Vidosky A, Nachman S, Kovacs A, Tropper P, Frey H, and Weiser B. CCR-5 genotype and resistance to vertical transmission of human immunodeficiency virus type 1. Journal of Acquired Immune Deficiency Syndromes 1999; 21: 189-193.

Passaro DJ, Waring L, Armstrong R, Bolding F, Bouvier B, Rosenberg J, Reingold AW, McQuitty M, **Philpott SM**, Jarvis WR, Werner SB, Tompkins LS, Vugia DJ. Postoperative Serratia marcescens wound infections traced to an out-of-hospital source. Journal of Infectious Disease 1997; 75: 992-995.

**Philpott SM**, Buehring GC. Induction of single-strand DNA breaks in cells infected with the Human T-cell Leukemia Virus or Bovine Leukemia Virus. Journal of Cellular Biochemistry 1994; 18C: 216.

#### SUBMITTED

**Philpott S**, Shapiro K, West Steven K, Heise L. Impact of donor-imposed requirements and restrictions on standard of care in microbicide trials. 2009; submitted.

**Philpott S**, McGrory E, Hankins C, Paxton L, Heise L, the Participants in the 2009 GCM/CDC/UNAIDS Consultation on Standards of Prevention in HIV Prevention Trials. Establishing Clear Standards of Prevention in HIV Prevention Trials. 2009; submitted.

**Philpott S**, Heise L. Ethical frameworks and standards of prevention in HIV prevention trials. 2009; submitted.

**Philpott S**, Hanes BR, West Steven K, Ruiz M, Vyas A. Contraception and family planning in HIV prevention trials: Current practice and stakeholder perspectives. 2009; submitted.

**Philpott S**, Forbes A, Halima Y, Heise L. A call to action: Streamlining the HIV prevention research agenda. 2009; submitted.

**Philpott S**, McGrory E, Halima Y, Heise L. A modest proposal: Ensuring access to treatment for seroconverters in HIV prevention trials. 2009; submitted.

#### **OTHER PUBLICATIONS**

##### BOOKS

Balint J, **Philpott S**, Baker B, Strosberg M (eds). 2006. *Advances in Bioethics, Vol. 9: Ethics and Epidemics*. London, UK: Elsevier/JAI Press. Includes authorship of the book's introductory chapter.

##### BOOK REVIEWS

[Lesser Harms: The Morality of Risk in Medical Research](#) by Sydney Halpern. Lancet 2006; 367: 294.

##### REGULATORY DOCUMENTS

Environmental Protection Agency Human Studies Review Board. 2009. Final report of the October 20-21, 2009 Human Studies Review Board Meeting. Available online through FDMS Docket

- System (<http://www.regulations.gov>). Edited and co-wrote complete document.
- Environmental Protection Agency Human Studies Review Board. 2009. Final report of the June 24-25, 2009 Human Studies Review Board Meeting. Available online through FDMS Docket System (<http://www.regulations.gov>). Edited and co-wrote complete document.
- Environmental Protection Agency Human Studies Review Board. 2009. Final report of the February 17, 2009 Human Studies Review Board Teleconference. Available online through FDMS Docket System (<http://www.regulations.gov>). Edited and co-wrote complete document.
- Environmental Protection Agency Human Studies Review Board. 2008. Final report of the October 20-21, 2008 Human Studies Review Board Meeting. Available online through FDMS Docket System (<http://www.regulations.gov>). Includes direct authorship of ethics analysis and summary of completed mosquito repellent studies.
- Environmental Protection Agency Human Studies Review Board. 2008. Final report of the June 24-25, 2008 Human Studies Review Board Meeting. Available online through FDMS Docket System (<http://www.regulations.gov>). Includes direct authorship of ethics analysis and summary of completed mosquito repellent studies.
- Environmental Protection Agency Human Studies Review Board. 2008. Final report of the April 9-10, 2008 Human Studies Review Board Meeting. Available online through FDMS Docket System (<http://www.regulations.gov>). Includes direct authorship of ethics analysis and summary of completed mosquito and tick repellent studies.
- Environmental Protection Agency Human Studies Review Board. 2007. Final report of the October 24-26, 2007 Human Studies Review Board Meeting. Available online through FDMS Docket System (<http://www.regulations.gov>). Includes direct authorship of ethics analysis and summary of completed mosquito and tick repellent studies.
- Environmental Protection Agency Human Studies Review Board. 2007. Final report of the June 27-29, 2007 Human Studies Review Board Meeting. Available online through FDMS Docket System (<http://www.regulations.gov>). Includes direct authorship of ethics analysis and summary of completed mosquito and tick repellent studies.
- Environmental Protection Agency Human Studies Review Board. 2007. Final report of the April 18-20, 2007 Human Studies Review Board Meeting. Available online through FDMS Docket System (<http://www.regulations.gov>). Includes direct authorship of ethics analysis and summary of completed mosquito and tick repellent studies.
- Environmental Protection Agency Human Studies Review Board. 2007. Final report of the January 24, 2007 Human Studies Review Board Meeting. Available online through FDMS Docket System (<http://www.regulations.gov>). Includes direct authorship of ethics analysis and summary of completed mosquito and tick repellent studies.
- Environmental Protection Agency Human Studies Review Board. 2006. Final report of the October 18-19, 2006 Human Studies Review Board Meeting. Available online through FDMS Docket System (<http://www.regulations.gov>). Includes direct authorship of ethics analysis and summary of proposed mosquito repellent, tick repellent and chromium repeat open application (ROAT) studies.
- Environmental Protection Agency Human Studies Review Board. 2006. Final report of the June 27-30, 2006 Human Studies Review Board Meeting. Available online through FDMS Docket System (<http://www.regulations.gov>). Includes direct authorship of ethics analysis and summary of proposed mosquito repellent, tick repellent and agricultural handler exposure studies.
- Environmental Protection Agency Human Studies Review Board. 2006. Final report of the May 2-3, 2006 Human Studies Review Board Meeting. Available online through FDMS Docket System (<http://www.regulations.gov>). Includes direct authorship of ethics analysis and summary of

completed hexavalent chromium study.

Environmental Protection Agency Human Studies Review Board. 2006. Final report of the April 4-6, 2006 Human Studies Review Board Meeting. Available online through FDMS Docket System (<http://www.regulations.gov>). Includes direct authorship of ethics analysis and summary of completed ethephon, methomyl and oxamyl studies.

## REPORTS

Family Panning and Contraception in HIV Prevention Trials. Final report of the April 24, 2009 Global Campaign Consultation on Family Panning and Contraception in HIV Prevention Trials. Arlington, VA.

Mechanisms for Ensuring Post-Trial Access to HIV Care and Treatment. Final report of the June 19-20, 2008 Global Campaign Meeting on Standards of Prevention and Access to Care. Washington, DC.

Ethical and Logistical Challenges in Next Generation HIV Prevention Trials. Final report of the November 8-9, 2007 Global Campaign Meeting on Ethics. Washington, DC.

## **INVITED PRESENTATIONS AND WORKSHOPS**

"HIV exceptionalism". New York AIDS State AIDS Institute. New York, NY. December 2009.

"The ethics of critical care research: Ensuring the safety of study participants". Mount Sinai School of Medicine. New York, NY. October 2009.

"The pandemic experience: From facility operations to lifeboat ethics". VISN 2 Integrated Ethics Council Workshop, Rochester, NY. September 2009.

"Ethical frameworks and standards of prevention in HIV prevention trials" GCM/CDC/UNAIDS Consultation on Standards of Prevention in HIV Prevention Trials. Kampala, Uganda. March 2009.

"Protecting women at risk: The macroeconomic challenges of HIV prevention research". United Nations Commission on the Status of Women. New York, NY. March 2009.

"The ethics of contraception in HIV prevention trials". NIAID Meeting on Pregnancy and Contraception in Microbicide Development. Bethesda, MD. March 2009.

"What does justice require in the conduct of international research?" 21st New York regional Conference: Issues in Medical Ethics. New York, NY. March 2009.

"Balancing competing ethical and scientific demands on HIV/AIDS prevention and treatment research." 136th Annual Meeting of the American Public Health Association. San Diego, CA. October 2008.

"Donor-imposed limits and clinical research trials." Social & Scientific Systems, Silver Spring, MD. September 2008.

"Community Advisory Groups: An Essential Component of Clinical Research Trials." IMPACT Advanced Training Course in Clinical Research. Kigali, Rwanda. June 2008.

Global Campaign for Microbicides Workshop on Ethical Reasoning and Clinical Research Trials. Kigali, Rwanda. May 2008.

Global Campaign for Microbicides Workshop on Ethical Reasoning and Clinical Research Trials. Mombasa, Kenya. May 2008

"Life in a bioethics institute." National Undergraduate Bioethics Conference, Schenectady, NY. April 2008.



- "Impact of donor-imposed requirements and restrictions on standard of care in microbicide trials." Microbicides 2008, New Delhi, India. February 2008.
- "The standard of care debate." 2<sup>nd</sup> In-House Conference on Clinical Trials and Research, Seattle, WA. December 2007.
- "State-of-art in microbicide research." USC HIV/AIDS Microbicide Interactive, Los Angeles, CA. November 2007.
- "Ethical issues in clinical research: A case study of microbicides." Social & Scientific Systems, Silver Spring, MD. November 2007.
- "Rationing antivirals, vaccines and critical care in an avian flu pandemic." American Society for Bioethics and the Humanities 9<sup>th</sup> Annual Meeting. Washington, DC. October 2007.
- "The ethics of using HAART instead of dual therapy to reduce MTCT in breast feeders and formula feeders." IMPAACT Leadership Meeting, Washington, DC. October 2007.
- "Microbicides, vaccines and HIV prevention: Positioning ourselves for moving forward." Advocates for Youth, Washington, DC. October 2007.
- Global Campaign for Microbicides Workshop on Ethical Reasoning and Clinical Research Trials. Bangkok, Thailand. June 2007.
- "Research-related harms in transnational clinical trials." Global Campaign for Microbicides Meeting on Standard of Care in Late Stage Microbicide Trials, Johannesburg, South Africa. June 2007.
- "History of the standard of care debate and challenges." Global Campaign for Microbicides Meeting on Standard of Care in Late Stage Microbicide Trials, Johannesburg, South Africa. June 2007.
- "Bending science: Reforming the law." Albany Law School, Albany, NY. December 2006.
- "Research on chemical exposures in humans: The Children's Environmental Exposures Research Study (CHEERS)." University of Illinois. Urbana-Champaign, IL. November 2006.
- "HIV exceptionalism." New York AIDS State AIDS Institute. New York, NY. November 2006.
- "Bioethics and the States: The New York experience." American Society for Bioethics and the Humanities 8<sup>th</sup> Annual Meeting. Denver, CO. October 2006.
- "Dial 'E' For ethics: Lessons from proactive bioethics." Great Lakes Interurban Club. Albany, NY. October 2006.
- "Human subjects research, regulations and policies." New York AIDS State AIDS Institute. New York, NY. October 2006.
- "HIV-1 coreceptor usage and CXCR4-specific viral load predict clinical disease progression during antiretroviral therapy." 16<sup>th</sup> International AIDS Meeting, Toronto, Canada. August 2006.

"Research subject or superfund site: Can the EPA do ethical human research?" Health Law Faculty Workshop, Albany Law School, Albany, NY. April 2006.

"The new federalism: Bioethics and state policy." Worcester Polytechnic Institute, Worcester, MA. April 2006.

"Issues in academic honesty and scientific integrity." Rensselaer Polytechnic Institute, Troy, NY. April 2006 (2 lectures).

"Federal- and state-level planning for a potential avian flu pandemic." Saratoga County, Burnt Hills, NY. March 2006.

"Institutional Review Boards: Watch dogs and guinea pigs." Albany Law School, Albany, NY. March 2006.

"Science today: What is bioethics?" Bethlehem, NY. February 2006.

"Molecular epidemiology of HIV: Transmission, pathogenesis and treatment." Quarterly Venue of the New York State AIDS Institute, Office of the Medical Director, and the Bureau of HIV/AIDS Epidemiology, Albany, NY. January 2006.

"Issues in integrity and professionalism." Ethics and Professionalism Conference. Stratton VA Medical Center, Albany, NY. December 2005.

"IRB workshop." Advanced Certificate Program – E-Education in Research Ethics: Central and Eastern Europe. Vilnius University Medical Faculty, Vilnius, Lithuania. July 2005.

"Clinical issues regarding HIV-1 coreceptor usage." The Royal Society, London, UK. February 2005.

"HIV-1 coreceptor usage: Pathogenesis and treatment." GlaxoSmithKline, Research Triangle Park, NC. January 2005.

"The basic science of CCR5 antagonists: clinical issues regarding HIV-1 coreceptor usage." HIV Community Writer's Workshop, St. Louis, MO. December 2004.

"Contemporary issues in medical bioethics: embryonic stem cell research." Empire State College, Saratoga Springs, NY. September 2004.

"HIV-1 pathogenesis and treatment." Tohoku University, Sendai, Japan. July 2004.

"Co-infection by HIV-1 and scrub typhus leads to decreased viral load and preferential suppression of X4 viruses." 15<sup>th</sup> International AIDS Meeting, Bangkok, Thailand. July 2004.

"Dynamics of suppression of CXCR4 specific HIV-1 strains by antiviral therapy." 2<sup>nd</sup> IAS Conference on HIV Pathogenesis and Treatment, Paris, France. July 2003.

"Maternal viral load and CCR5 coreceptor utilization: critical determinants in HIV-1 transmission." 2<sup>nd</sup> IAS Conference on HIV Pathogenesis and Treatment, Paris, France. July 2003.

"Monitoring HIV-1 infection: qualitative and quantitative effects of therapy." Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand. October 2002.

"HIV-1 pathogenesis in women: viral and host determinants of disease progression." National University of Singapore. October 2002

"Dynamics of suppression of CXCR4 specific HIV-1 strains by antiviral therapy." 14<sup>th</sup> International AIDS Meeting, Barcelona, Spain. July 2002.

"CCR-5 genotype and resistance to vertical transmission of human immunodeficiency virus type 1." 12<sup>th</sup> International AIDS Meeting, Geneva, Switzerland. July 1998.

"CCR-5 genotype and resistance to vertical transmission of human immunodeficiency virus type 1." Cold Spring Harbor Retrovirus Meeting, Cold Spring Harbor NY. May 1997.

"Induction of single-strand DNA breaks in cells infected with the human T-cell leukemia virus or bovine leukemia virus." American Association for Cancer Research General Meeting, San Francisco CA. April 1994.

#### PEER-REVIEWED ABSTRACTS

Shapiro K, West K, **Philpott S**, Heise L. Standards of care in vaginal microbicide efficacy trials, a mapping exercise. Second National Bioethics Conference, Bangalore, India. December 2007.

**Philpott S**, Ledergerber B, Klimkait T, Burger H, Kitchen C, Bürgisser P, Gorgievski M, Joller H, Perrin L, Piffaretti J-C, Schmid P, Gormley A, Schroeder T, Weiser B. HIV-1 coreceptor usage and CXCR4-specific viral load predict clinical disease progression during antiretroviral therapy. 16<sup>th</sup> International AIDS Meeting, Toronto, Canada. August 2006.

Karchava M, Pulver W, Smith L, **Philpott S**, Sullivan TJ, Wethers J, Parker MM. Prevalence of antiretroviral resistance mutations in HIV proviral DNA from infected infants diagnosed in New York state in 2001-2002. 13<sup>th</sup> Conference on Retroviruses and Opportunistic Infections, Denver, CO. February 2006.

Kitchen C, Shi B, Weiser B, **Philpott S**, Suchard M, Anastos K, Meyer W III, Back S, Parker M, Burger H. Evolution and recombination of genes encoding drug resistance and coreceptor usage during antiretroviral therapy. 13<sup>th</sup> Conference on Retroviruses and Opportunistic Infections, Denver, CO. February 2006.

Ramsingh A, Huang X, **Philpott S**, Jia Y. Expression of HIV-1 sequences in different immunological contexts of a conserved HIV-1 vector. AIDS Vaccine 2005 International Conference, Montreal, Canada. September 2005.

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**Philpott SM**, Weiser B, Parker M, Lamson D, Burger H. Inpatient viral recombination and the emergence of multi-drug resistant strains of HIV-1. 15<sup>th</sup> International AIDS Meeting, Bangkok, Thailand. July 2004.

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Burger H, Gormley A, Weiser B, Kitchen C, Uppal A, Moore R, Brunner C, **Philpott S**. Maternal viral load and CCR5 coreceptor utilization: critical determinants in mother-to-child HIV-1 transmission. Infectious Disease Society of America 2003, San Diego, CA. October 2003.

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- Weiser B, Burger H, Tsoukas C, Foley B, Kitchen C, Anastos K, **Philpott S**. Characterization of full-length HIV-1 RNA sequences in the female genital tract and blood: compartmentalization and inpatient recombination. 2<sup>nd</sup> IAS Conference on HIV Pathogenesis and Treatment, Paris, France. July 2003.
- Fang G, Weiser B, Kuiken C, **Philpott S**, Rowland-Jones S, Plummer F, Kimani J, Chen CH, Shi S, Kaul R, Bwayo J, Anzala AO, Burger H. Recombination following superinfection by HIV-1. 2<sup>nd</sup> IAS Conference on HIV Pathogenesis and Treatment, Paris, France. July 2003.
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- Fang G, Weiser B, Kuiken C, **Philpott S**, Rowland-Jones S, Plummer F, Kimani J, Chen CH, Shi S, Kaul R, Bwayo J, Anzala AO, Burger H. Superinfection and recombination during chronic HIV-1 infection in Africa. 10<sup>th</sup> Conference on Retroviruses and Opportunistic Infections, Boston, MA. February 2003.
- Philpott S**, Burger H, Anastos K, Ramirez-Kitchen C, Salzer E, Robison E, Meyer WA, Sacks H, Mathur-Wagh U, Brunner C, Weiser B. Dynamics of suppression of CXCR4 specific HIV-1 strains by antiviral therapy. 14<sup>th</sup> International AIDS Conference, Barcelona, Spain. July 2002.

- Fang G, Weiser B, Rowland-Jones S, Plummer F, Chen CH, Kaul R, Anzala AO, Bwayo J, Oyugi J, Kuiken C, Gaschen B, Lang D, **Philpott S**, Beddows S, Sattenau Q, Kitchen C, Paxinos E, Burger H. Long-term survivors in Nairobi: complete HIV-1 RNA sequences and immunogenetic profiles. 14<sup>th</sup> International AIDS Conference, Barcelona, Spain. July 2002.
- Madhava V, Sacks H, Feldman J, **Philpott S**, Augenbraun M, Burger H, Cohen M, Young M, Bening L, French A, Anastos K. Association of CCR5-Δ32 mutation with hepatitis C seroprevalence and incidence, and liver transaminase patterns in a large cohort of women. 14<sup>th</sup> International AIDS Conference, Barcelona, Spain. July 2002.
- Philpott S**, Burger H, Tsoukas C, Foley B, Kitchen C, Anastos K, Weiser B. Complete HIV-1 sequences in the genital tract and plasma of women: coreceptor utilization and compartmentalization. Keystone Symposium on HIV Pathogenesis, Park City, UT. April 2002.
- Fang G, Weiser B, Rowland-Jones S, Plummer F, Chen CH, Kaul R, Anzala AO, Bwayo J, Oyugi J, Kuiken C, Gaschen B, Lang D, **Philpott S**, Beddows S, Sattenau Q, Kitchen C, Paxinos E, Burger H. Characterization of complete HIV-1 RNA sequences and immunogenetic profiles from Kenyan long-term survivors. Keystone Symposium on HIV Pathogenesis, Park City, UT. April 2002.
- Philpott S**, Weiser B, Tarwater P, Vermund SH, Kleeberger CA, Gange SJ, Anastos K, Cohen M, Greenblatt RM, Kovacs A, Minkoff H, Young MA, Miotti P, Dupuis M, Chen C-H, Burger H. CCR5 genotype and susceptibility to transmission of HIV-1 in women. 9<sup>th</sup> Conference on Retroviruses and Opportunistic Infections, Seattle, WA. February 2002.
- Philpott S**, Burger H, Anastos K, Ramirez-Kitchen C, Salzer E, Robison E, Meyer WA, Sacks H, Mathur-Wagh U, Brunner C, Weiser B. Selective suppression of CXCR4 specific HIV-1 strains by antiviral therapy and dynamics of response. Keystone Symposium on HIV Pathogenesis, Keystone, CO. April 2001.
- Burger H, Weiser B, Anastos K, Ramirez-Kitchen C, Salzer E, Robison E, Meyer WA, Sacks H, Mathur-Wagh U, Brunner C, Klugo A, **Philpott S**. Preferential suppression of CXCR4 specific HIV-1 strains by antiviral therapy and dynamics of response. ICAAC, San Diego, CA. October 2001.
- Philpott S**, Weiser B, Tarwater P, Vermund SH, Kleeberger CA, Gange SJ, Anastos K, Cohen M, Greenblatt RM, Kovacs A, Minkoff H, Young MA, Miotti P, Dupuis M, Chen C-H, Burger H. CCR5 genotype and susceptibility to transmission of HIV-1 in women. 13<sup>th</sup> International AIDS Conference, Durban, South Africa. July 2000.
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- Philpott S**, Burger H, Anastos K, Robison E, Meyer W, Mathur U, Brunner C, Weiser B. Antiviral therapy may preferentially eliminate CXCR4-specific strains of HIV-1. ICAAC, San Francisco, CA. October 1999.
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- HIV-1 RNA genomic sequences in the genital tract of women. 10<sup>th</sup> Symposium on HIV Infection, Toulon, France. July 1999.
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- Weiser B, Burger H, Charbonneau T, Grimson R, Visosky A, Nachman S, Kovacs A, Tropper P, Frey H, **Philpott S**. CCR-5 genotype may confer resistance to mother-to-child HIV-1 transmission. 12<sup>th</sup> International AIDS Conference, Geneva, Switzerland. July 1998.
- Philpott S**, Weiser B, Visosky A, Fang G, Chappey C, Anastos K, Back S, Tsoukas C, Burger H. Full-length HIV-1 RNA genomes in the genital tract of women. 12<sup>th</sup> International AIDS Conference, Geneva, Switzerland. July 1998.
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- Philpott S**, Weiser B, Visosky A, Fang G, Chappey C, Anastos K, Back S, Tsoukas C, Burger H. Sequence analysis of full-length HIV-1 RNA genomes in the genital tract of women. Keystone Symposium on HIV Pathogenesis, Park City, UT. March 1998.
- Townsend L, Visosky A, **Philpott S**, Fang G, Burger H, Anastos K, Chappey C, Meyer W, Weiser B. Quantitation and complete HIV pol sequence of the HIV-1 RNA genome from the genital tract and plasma of women: genital reservoir and differential drug resistance. 13<sup>th</sup> Annual Conference on Human Retrovirus Testing, San Diego, CA. February 1998.
- Weiser B, **Philpott S**, Anastos K, Tsoukas C, Tropper P, Fang G, Moore R, Brunner C, Visosky A, Townsend L, Back S, Sacks H, Grimson R, Chappey C, Burger H. Quantitation and cloning of the HIV-1 RNA genome from the genital tract of women. NIH Meeting on HIV in Genital Secretions, Bethesda, MD. May 1997
- Philpott S**, Burger H, Charbonneau T, Grimson R, Visosky A, Nachman S, Kovacs A, Tropper P, Frey H, Weiser B. CCR-5 genotype and resistance to vertical transmission of HIV-1. HIV-1 Infection Symposium, Los Angeles, CA. March 1997.
- Philpott S**, Weiser B, Charbonneau T, Grimson R, Visosky A, Nachman S, Kovacs A, Tropper P, Frey H, Burger H. CCR-5 genotype and resistance to vertical transmission of human immunodeficiency virus type 1. 4<sup>th</sup> Conference on Retroviruses and Opportunistic Infections, Chicago, IL, February 1997.

## RESEARCH SUPPORT

### ACTIVE

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|--|----------------|
| R25 TW007085-05 (M. Strosberg, PI; S. Philpott, Asst. Director)<br>Fogarty International Center<br>E-Education in Research Ethics: Central and Eastern Europe. | 9/1/08-8/31/12 |
| 1R01HG004856-01A1 (R. Rhodes, PI; S. Philpott, Collaborator)<br>NIH/Human Microbiome Project<br>Human Microbiome Research and the Social Fabric                | 9/1/09-8/31/10 |

## TRANSFERRED

UO1AI35004 (K. Anastos, PI; S. Philpott, Co-Investigator) 4/1/03-3/31/08  
NIAID  
The role of HIV-1 coreceptor usage during HAART  
Research support transferred to Kimdar Kemal in June 2006.

TBA (A. Ramsingh, PI; S. Philpott, Collaborator) 4/1/06-3/31/11  
NIAID  
HIV vaccine development using recombinant Coxsackieviruses.  
Research support transferred to Arlene Ramsingh in June 2006.

## COMPLETED

WIHS – Unobligated Funds (S. Philpott, PI) 9/1/06-8/31/07  
Effect of viral coreceptor use on thymic output in HIV-1-infected women  
Research support transferred to Barbara Weiser in June 2006.

Schering-Plough, Inc. (S. Philpott, PI) 7/1/06-6/31/07  
Research Contract  
Analysis of HIV-1 coreceptor usage.  
Research support transferred to Harold Burger in June 2006

RO1AI52015-01 (B. Weiser, PI; S. Philpott, Co-Investigator) 4/1/02-3/31/07  
NIAID  
HIV compartmentalization in women: virus and CTL response.  
Research support transferred to Kimdar Kemal in June 2006.

R01-AI42555 (H. Burger, PI; S. Philpott, Co-Investigator) 6/5/98-5/31/04  
NIAID  
Complete HIV RNA sequences: determinants of attenuation.

1 F32 HD08478-01 (NRSA; S. Philpott, PI) 7/1/98-6/30/01  
NICHD  
Genetic analysis of HIV-1 in the female genital tract.

Quest Diagnostics, Inc. (B. Weiser, PI; S. Philpott, Co-Investigator) 11/1/01-10/31/02  
Sponsored Research  
Development of rapid HIV-1 coreceptor assay.

## **EXTERNAL COLLABORATIVE PROJECTS (PAST AND PRESENT)**

Advanced Certificate Program – E-Education in Research Ethics: Central and Eastern Europe  
(Instructor – 2005; Advisory Committee – 2007).

Federalism and Bioethics: States and Moral Pluralism. AMBI, Rockefeller Institute of Government,  
and Albany Law School.

Mahidol University Scrub Typhus Project, Bangkok, Thailand.

Pumwani Cohort, Nairobi, Kenya.

Rwanda Women's Treatment Access Initiative, Kigali, Rwanda.

Swiss HIV Cohort Study, Basel, Switzerland.

Women's Interagency HIV Study (WIHS), Bronx, NY.

## **MISCELLANEOUS ACTIVITIES**

Advisory Committee Member, Advanced Certificate Program: "E-Education in Research Ethics:  
Central and Eastern Europe." (Fogarty International Research Ethics Education and  
Curriculum Development Award R25-TW 7085, Union Graduate College).

Ad-hoc reviewer for: American Journal of Bioethics.  
American Journal of Public Health.  
AIDS and Behavior.  
Bioethics.  
Clinical Infectious Diseases.  
Current HIV Research.  
Developing World Bioethics.  
Human Reproduction.  
Journal of Acquired Immune Deficiency Syndromes.  
Journal of Clinical Research Best Practices.  
Journal of Infectious Diseases.  
Journal of Virology.  
Trends in Molecular Medicine.

American Public Health Association Ethics Special Interest Group Executive Committee: Chair-Elect (2009-10).

American Public Health Association Ethics Special Interest Group Reviewer – APHA 2008, APHA 2009.

Conference Organization : ASBH Summer Conference: Bioethics and Politics (July 2006).  
Standard of Care Workshop (June 2007).  
Workshop on Ethical Reasoning and Clinical Research Trials (June 2007).  
Bioethics Summer Camp (July 2007).  
Working Group Workshop on Ethics Issues in Next Generation HIV Prevention Trials (November 2007).  
Standards of Prevention and Access to Care (June 2008).  
GCM/CDC/UNAIDS Consultation on Standards of Prevention in HIV Prevention Trials (March 2009).  
Consultation on Contraception and Family Planning in HIV Prevention Trials (April 2009).

Editorial Boards: Developing World Bioethics (2008-present).  
Women's Bioethics Project (2008-present).

Graduate School Operations Committee, Albany Medical College (2006-7).

HIV Scholars Program, New York State Department of Health (2006-7, 2009).

UNESCO Global Ethics Observatory (2007-present).

## **LANGUAGES SPOKEN**

Native speaker of English. Basic working knowledge of French, Portuguese, Spanish, and Swahili.