

A. OVETA FULLER
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Education and Training

1972 Governor's School of North Carolina, Winston-Salem, N.C.
1977 B.A., Biology, University of North Carolina at Chapel Hill (UNC-CH)
1983 Ph.D., Microbiology and Immunology, University of North Carolina at Chapel Hill

Academic, Administrative and Clinical Appointments

1977-1982 Graduate Research Assistant, Dept. of Microbiology and Immunology, UNC-Chapel Hill.
1983-1986 Postdoctoral Research Fellow, Dept. of Microbiology, University of Chicago
1986-1988 Research Associate Fellow, Dept. of Molecular Genetics and Cell Biology, University of Chicago
1988-1995 Assistant Professor, Dept. of Microbiology and Immunology, University of Michigan
1990-2005 Member, University of Michigan Comprehensive Cancer Center; Training Programs in Cellular and Molecular Biology; Cellular Biotechnology; Genetics; Microbial Pathogenesis; Medical Scientist Training Program
1995- Associate Professor, Department of Microbiology and Immunology, University of Michigan (*Sabbatical leave 9/1998-3/1999, 9/2005-8/2006, 12/2015-5/2016*)
1996-2002 Board of Examiners, One of six national faculty consultants for guidance of global GRE Biology Subject Test, Educational Testing Service, Princeton, NJ
1996-2001 National Cancer Institute, Study Section Subcommittee Group F, Cancer Biology Panel Member 1997-2001 Ad hoc 1996-97
2005- Science Advisor, African Methodist Episcopal Church- Service and Development Agency (AME-SADA), HIV and AIDS Prevention (*Sabbatical host 9/05-8/06*)
2007 - Adjunct Faculty, Payne Theological Seminary, Wilberforce, Ohio
2009 - 2012 Faculty Associate, Center for Global Health, University of Michigan
2009 - Faculty Associate, STEM Initiative, African Studies Center (ASC), University of Michigan. Elected member of the ASC Executive Board (2011-13).
2010 - Member, Detroit Urban Research Center. Renewed five year grant from NIH Infrastructure Support Initiative, Barbara Israel, Director
2013- Member, BioSocial Methods Collaborative, Institute for Social Research, University of Michigan
2014- Associate Director, African Studies Center, International Institute, Literature, Sciences and Arts, University of Michigan

- 2015 Visiting Faculty Scholar, Duke University, Durham, North Carolina (*sabbatical leave 12/2015 – 5/2016*)
- 2016-17 Director, African Studies Center, International Institute, Literature, Sciences and Arts, University of Michigan

Research Interests

1. Implementation science and translational research for HIV/AIDS elimination
2. Global health interventions to reduce infectious and chronic diseases
3. Health equity and practical implementation of biomedical discoveries
4. Herpes simplex virus entry and pathogenesis; Membrane fusion mechanisms
5. Microchip detection of genetic variance in human viral pathogens

Grants

Active

- Ford Foundation grant, Contract to prepare compilation of “Proceedings of the Inaugural Senior Ford Fellows Conference”, September 2013-December 2016
- Center for Research on Learning and Teaching, University of Michigan “Global Impact of Microbes: Fieldwork” a Globalization of the Curriculum grant. July 2014 -June 2017
- International Institute, University of Michigan, Experiential Learning Fund, “Global Impact of Microbes: Fieldwork”. June 2015-May 2016
- STEM Research Seed Grant, African Studies Center, University of Michigan, “Trusted Messengers to Address Ebola Virus in Liberia.” With Gesler Murray and Renee Gerring, July 2015-June 2017
- M-Cubed, University of Michigan, “Enhancing Cultural Proficiency for Global Research and Education in STEM” November 2015-December 2017

Previous (partial list):

- NIAID-R29-AI28378, "Functions of glycoprotein D in herpesvirus infection", PI-O. Fuller, 4/90 - 3/95
- National Science Foundation, Career Advancement Award, "Cellular receptor(s) for herpes simplex virus. PI- A.O. Fuller, 8/1/92-7/31/93.
- Office of the Vice President for Research, Technology Transfer Grant. "Herpesviruses as vectors for gene delivery to human cells. 7/93 - 6/94.
- UM Faculty Development Award. 9/93 - 8/94 "Cellular receptor(s) for herpes simplex virus.
- NIAID-R01-AI34528, "Cellular receptors for herpes simplex virus," PI- A. O. Fuller, 4/94 -1/99.
- Munn Endowment Award, UM Institutional American Cancer Society Funds, "Development of pseudorabies virus as a gene delivery vector" 6/96-5/97.
- UM Technology Transfer Grant- Office of Vice President for Research- "Novel human genes as receptors for HSV" 6/97-5/98.
- NIAID- RO1-AI42894, "Mechanisms of pH independent viral entry" PI. A. O. Fuller. 9/30/98-9/29/99. Direct costs for 1 year bridge award.
- UM Biotechnology Transfer Grant, “Coiled coil motifs as anti-viral targets for human herpesviruses”. UM Office VP. 6/00-5/01.
- Rackham Merit Fellowship (with Santiago Lopez). University of Michigan. 9/01/02 – 5/01/ 05.

NIAID-R03: “Initial characterization of a new human gene *hfl-A27*”. A. O. Fuller, P.I. 1/03-12/05.

America Heart Association Postdoctoral Fellowship: (with Dr. Pilar Perez-Romero.) 6/1/03-5/30/05 Cellular receptor functions in herpes simplex virus entry.

Robert Woods Johnson Foundation, “Social implications in role in dementia for herpes virus infections”. A. Aiello P.I. A.O. Fuller- Co-investigator. 4/04-3/05.

University of Michigan Global REACH Fund, “Expansion in Zambia of an effective medical education model for HIV infection prevention”. 5/06-12/07, A.O. Fuller, P.I.:

NIAID- RO1, “A microfabricated device for detection of variations in influenza virus.” 5/05 – 6/10, R. Larson, P.I. A.O. Fuller- Co-Investigator:

Global Intercultural Experience for Undergraduates (GIEU), University of Michigan, “A Science-Based HIV/AIDS Prevention Model in Zambia through Religious Leader Networks”. 11/09 - 11/10, Faculty Fellow-2010:

University of Michigan Center for Global Health, Travel award to present and attend the Global Health Conference- Montreal, CANADA. 9/11 – 11/11

United States Department of State, Bureau for International Cultural Exchange “Trusted Messenger Intervention as a Science-Based Approach to Address HIV/AIDS through Religious Leaders”. Fulbright Scholar Award, September 2012- October 2013

Elizabeth Crosby Research Award, ADVANCE Program, University of Michigan. “Test and Validate Intervention to Eliminate HIV/AIDS”. January 2013 - December 2014

Center for Global Intercultural Studies, Global Connection Course (GCC), Faculty Scholar, “Global Impact of Infectious Diseases” Microbiology 450. Grant for research and study abroad for fieldwork course of investigator and senior undergraduates. September 2010 – February 2013

Membership in Training Grants, Programs, Centers:

Cellular and Molecular Biology Training Program, 3/1989- 2006

Genetics Training Program, 3/1992-2007

Microbial Pathogenesis Training Program, 8/1989-12/1994, 10/1998-6/2002

Medical Student Training Program- UM Medical School, 10/1988- 8/2005

UM Comprehensive Cancer Research Center 8/1989-8/2004

Cellular Biotechnology Training Program, 2/1991- 6/2000

UM African Studies Center, 6/2009 -

UM Center for Global Health, 11/2009 - 2012

Detroit Urban Research Center, UM SPH Initiative 9/2010 -

UM BioSocial Methods Collaborative, Institute for Social Research, 10/2013 -

Honors and Awards

1973-1977	Aubrey Brooks Scholarship, UNC-CH
1983-1984	Postdoctoral Research Fellowship, Anna Fuller Cancer Fund
1983-1985	American Cancer Society Postdoctoral Award (declined to accept NIH)
1984-1986	National Institutes of Health, Postdoctoral Research Award
1987	Ford Foundation Postdoctoral Research Award, Ford Foundation through National Research Council of the National Academy of Sciences

- 1992-1993 National Science Foundation, Career Advancement Award, Cellular and Molecular Biology Division
- 1995 Biography in *Distinguished African American Scientists of the 20th Century*. Kessler, Kidd, Kidd and Morin. (Oryx Press) Phoenix, AZ. 1996.
- 1998 Woman of the Year in Human Relations, University of Michigan Women of Color Task Force
- 2004 Distinguished Service Award in Microbiology and Ministry, Missions Society, AME Church
- 2005 Robert Smith Community Service “Humanitarian Award”. The Brown Chapel Foundation, Ypsilanti-Ann Arbor, MI area 52th annual Brotherhood Banquet Committee.
- 2012-13 J. William Fulbright Faculty Scholar, Fulbright Scholarship Board and The Bureau of Educational and Cultural Affairs. United States Department of State. Sub-Saharan Africa Regional Research, Award Certificate, October 2013

Memberships in Professional Societies

- 1979- 1993 Sigma Xi -The Scientific Research Society
- 1980-1992 National Technical Association, Inc.
Research Triangle Chapter Founder and President
Member Chicago Chapter
- 1980-2008 American Association for the Advancement of Science
- 1983-2010 American Society for Virology
American Society for Microbiology
- 1986- Ford Foundation Fellows, *Regional Liaison for State of Michigan* 2000-
2011- Consortium of Universities for Global Health (CUGH)
- 2011- International Society for Infectious Diseases
- 2016- African Studies Association

Editorial Positions, Boards and Peer-Review Service

Grant, Manuscript or Fellowship Reviewer:

- 1989, 1990 Rackham Graduate School Merit Fellowships, University of Michigan
- 1990, 1996-2012 *Virology, J. Virology, J. of Clin Investigation, Virology J., Laboratory Investigation, Intervirology, Virus Research, Anti-Viral Research*
- 1991-92, 1997 Howard Hughes Medical Institute Predoctoral Fellowships, “Genetics and Molecular Biology” - National Research Council
- 1991 National Science Foundation, Division of Cooperative Scientific and Engineering Activities, USA-Japan Cooperative Science Activities.
- 1991 North Carolina Biotechnology Center; Academic Initiatives Program and Grants
- 1991-92 National Institute of Neurological Disorders and Stroke, Program project in virology.
- 1991-92 National Science Foundation, Research Grants, Division of Molecular and Cellular Biology
- 1996-97
- 1992 National Science Foundation, Human Resources Division, PMSA Grants (\$1.5 million/3 yr to enhance science and math achievement)

- 1994-96 National Science Foundation, Cellular and Molecular Biosciences Division, Research and Planning Grants
- 1995-97 National Institute of Allergy and Infectious Diseases- Review Panel for Etiology of Chronic Fatigue Syndrome.
- 1997-2001 National Cancer Institute, Panel member for Study Section Subcommittee Group F for Cancer Biology Training Programs and Research Training Grants
- 2004 NIAID, Special emphasis; Ad hoc reviewer. Postdoctoral Awards
- 2005 NIAID, Special emphasis; Ad hoc reviewer. Infectious Diseases and Microbiology.
- 2004-2011 Editorial Board member, *Virology Journal*.
- 2005 National Science Foundation, Panel Member. Fellowships for Broadening Participation in the Biomedical Sciences.
- 2005 -06 Howard Hughes Medical Institute, Review Panel Member for each level of review, "Med into to Graduate Initiative" Program Grants.
- 2007 NIAID, Ad hoc review panelist, Modeling and Analysis of Biological Systems (MABS) Study Section.
- 2008 NIAID, Review panel member, Infectious Diseases and Microbiology Study Section. F-13 Fellowships, March 2008. (New computer-interactive review process pilot).
- 2010 NIAID, Review panelist, "Bugs and Drugs" study section. June 2010
- 2012-15 Ford Foundation Fellowship Program, Review panel member, Biological Sciences and Biomedical Sciences panel.
- 2014-16 Fulbright Faculty Review panel member, Bureau of Educational and Cultural Affairs. United States Department of State

National/International Service:

- 1988 Co-chairperson, Session on grants and fellowships, Ford Foundation Fellows Conference, National Academic of Sciences, Washington, D.C.
- 1989 State of Louisiana-Board of Regents, Reviewer for Louisiana Education Quality Support Fund. Research and Development Component.
- 1989-96 Advisory panel for Postdoctoral Training Program, Lindberger Cancer Research Center, UNC-CH, Chapel Hill, NC
- 1989-97 Science and Technology Advisory Board- Field of health and biomedical sciences, Journal of the National Technical Association.
- 1990 Chairperson, Herpesvirus #2 Session, American Society for Virology Annual Conference, Salt Lake City, Utah.
- 1992 Co-Chairperson, Session on "Viral Entry and Receptors" 17th International Herpesvirus Conference, Edinburgh, SCOTLAND
- 1994 Chairperson, Session- Viral Entry and Receptors, American Society for Virology, Annual conference, Madison, WI.
- 1995 Co-chairperson, Session- Viral structural proteins, International Herpesvirus Workshop, Groningen, THE NETHERLANDS
- 1995-96 Member, Local Host Committee, 21st International Herpesvirus Workshop, Chair, Session on "Viral entry and receptors". Chicago, IL, August 1996.
- 1996-98 American Society for Microbiology, Task Force on Under-represented Minority Membership.

- 1996-98 National Center for Infectious Diseases/ASM Postdoctoral Fellows in Infectious Diseases, Steering Committee Fellowship Program
- 1997 Workshop co-presenter "Choosing a Graduate Mentor", Ford Foundation Annual Fellows Conference, National Academy of Sciences, Washington, DC
- 1998 Chairperson and overview presentation, "Cellular recognition and entry". FASEB meeting on Virus Assembly. Saxton River, Vermont.
- 2000 Invited lecture, Session- "Viral Entry and Cell Receptors" FASEB meeting on Virus Assembly. Saxton River, Vermont. June.
- 2000 Chairperson, "Viral Entry and Receptors" Oral presentation workshop at the American Society for Virology annual conference, Fort Collins, Colorado, July.
- 2001- Ford Foundation Fellows, Faculty Liaison for Michigan, National Academy of Sciences
- 2003- 08 Scientific advisor to the 4th District Women's Missionary Society, A.M.E.C. "Biology and Prevention of HIV and AIDS". Member of A.M.E. Church WMS HIV/AIDS Task Force
- 2005- Scientific consultant/advisor for HIV and AIDS prevention and awareness, A.M.E.- Service and Development Agency, Washington, DC. Partner to develop domestic and international initiatives through the Dept of Global Witness and Ministry, A.M.E. Church, General Board and Council of Bishops.
- 2005-2008 Board of Trustees, The Wellness Community of Southeast Michigan. (Cancer awareness, prevention and support). Nonprofit community based foundation opened to provide no cost services in southern Michigan in 11/2007.
- 2011-12 Pastoral Community Advisory Board, NIH R21 grant "Body and Soul: Increasing Enrollment in Clinical Trials through Faith-Based Initiatives." P.I. Ken Resnicow.
- 2011 Reviewer for abstracts, 2011 National HIV/AIDS Prevention Conference, Centers for Disease Control and Prevention.
- 2012- Conference Planning Committee, Ford Foundation Fellowships Annual Conference and Senior Ford Fellows Conference. National Research Council of the National Academy of Sciences.
- 2012 Co-chair of the Inaugural Senior Ford Fellows Conference, Ford Foundation Fellowship Program at the 50th Anniversary Celebration, Beckman Center of National Academies of Science, Irvine California

Teaching

Trainees

Undergraduate:

Lisa S. Parker - 1989-1990. Undergraduate research assistant, UM. (Ph.D. 1996, Dept. of Molecular Biology, Univ. of California Berkeley).

Bernal Price - 1989, 1991. UM undergraduate summer research apprenticeship program.

Mia S. Song - 1990-91. UM senior undergraduate research project.

Michael Attan -1991 UM undergraduate volunteer.

M. Kara Bucci -1992-94. Undergraduate Research Opportunities Program. UM Interflex Medical Program. Graduated UM Medical School 6/98.

Jennifer Redd- 1995-97. UM Undergraduate. Microbiology major. (Medical school 1998-)

Althea Capul- 1996-98. UM Undergraduate. Microbiology Honors Thesis Research.
 (Granted with high honors 5/98; Ph.D from Washington University, 1998-2004).
 Neil Hapawat- 1997- . UM Undergrad. Microbiology Honors Thesis Research.
 (Granted with high honors 5/00. M.D. program at Albert Einstein School of Medicine.)
 Tricia A. George- 1997, 1998- Howard Hughes Summer Fellowship. Biology major
 undergraduate, Spelman College. UM Honors program student.
 Scott Ottolini- 1999-2001. Undergraduate. Microbiology major. M.D. from Wayne State
 University, 2005
 April E. Effort- 2003-2005 Undergraduate Microbiology major. Graduate Ph.D student at
 University of Michigan
 Samuel Cohen- 2010-11. UM undergraduate in Program in Environmental Studies.
 Christy Duan- 2010-11. UM undergraduate in Statistics and Computer Sciences
 Lisa Mac- 2010-12 . UM undergraduate in Spanish and Microbiology
 Sandhya Rangarajan 2011-12 UM undergraduate in Microbiology and Anthropology
 Sieda Garrison 2012-13. UM undergraduate in Brain and Behavior Studies
 Brandon Bloembergen 2012- 13. UM undergraduate in Cell and Molecular Biology
 Adam Green, 2012-13. UM undergraduate in Cell and Molecular Biology
 Lauryn Honig, 2013-14. UM undergraduate in International Studies
 Anisha Patel, 2015-16. UM undergraduate in Microbiology

Graduate:

Wen-Chi Lee - Ph.D. Microbiology and Immunology, 1989-1993. (Defense 7/93).
 Deborah S. McClain - Ph.D. Microbiology and Immunology, 1989-94. (Defense 2/94).
 Gangadharan Subramanian- Ph.D. Microbiology and Immunology, 1991-94 (Defense 5/94).
 Stylanos Andreadis- Ph.D. Chemical Engineering. Co-advisor with B. Palsson. 1993-96
 Alice Chuck- Ph.D. Chemical Engineering. Co-advisor with B. Palsson. 1993-95
 Rona LeBlanc- Ph.D. Cellular and Molecular Biology Program. 1991-1996 (Defense 7/96)
 Aleida Perez- Ph.D. Microbiology and Immunology. 1992-1997 (Defense 1/97)
 Derek Dimcheff- Ph.D. Biology. 1997-98
 Sarah Sutter, M.S. Cellular and Molecular Biology Program 2001-2002
 Gregory DeLassus, M.S. Microbiology and Immunology, 2000-2007.
 Santiago Lopez, Ph.D. Microbiology and Immunology, 2001-2006
 Erica Odukoyo, M.P.H. Health Behavior and Health Education, School of Public Health 2014-15
 John Mark Wiginton, M.P.H. Health Behavior and Health Education, School of Public Health
 2016

Post-Graduate:

Chuan-Fang Jin, M.D. -Postdoctoral fellow. Microbiology and Immunology, 1989-91
 Qingxue Li, Ph.D. -Senior fellow, Microbiology and Immunology, 1996-2000
 Pilar Perez, Ph.D. -Postdoctoral Fellow. Microbiology and Immunology, 2001-2003
 Alecia McCall, Ph.D. -Project Assistant, Global Connection Course 2012-2014

Member of Doctoral Committees:

Anne Harwood	1988-90	Microbiology and Immunology
Karen Dolter	1988-91	Microbiology and Immunology
Phillip Gage	1988-92	Microbiology and Immunology

Barbara Brott	1989-92	Microbiology and Immunology
Wen-Chi Lee	1989-92	Microbiology and Immunology
Deborah McClain	1989-94	Microbiology and Immunology
Larry Sternberg	1989-93	Microbiology and Immunology
G. Subramanian	1992-94	Microbiology and Immunology
M.G. Kernmani	1992-96	Molecular Epidemiology
Alice Chuck	1993-95	Chemical Engineering
Stylianos Andrealis	1993-96	Chemical Engineering
Aleida Perez	1993-97	Microbiology and Immunology
Rona LeBlanc	1993-96	Cellular and Molecular Biology
Anissa Chan	1994-97	Microbiology and Immunology
Amrita Joshi	1997-2001	Microbiology and Immunology
Murray Cotter	1999-2001	Cellular and Molecular Biology
David Evers	1999-2002	Medicinal Chemistry
Allen Harrison	2000-2002	Cellular and Molecular Biology
Gregory DeLassus	2001-2007	Microbiology and Immunology
Caroline Pointer-Keenan	2002-2003	Chemistry and Biophysics
Jason Knight	2002-2005	Cellular and Molecular Biology
Santiago Lopez	2002-2006	Microbiology and Immunology
Jennifer Chua	2003-2004	Microbiology and Immunology
Hui-Lei Yeng	2003-2005	Molecular Epidemiology, SPH
Tyson Poecht	2004-2007	Chemical Engineering
Travis Clark	2008-2012	Chemistry
Jamie Austin	2012-2015	Pharmaceutical Sciences

Intramural lectures, didactic courses, curriculum development

1979	Instructor, Medical Microbiology, UNC-CH School of Nursing
1980	Assistant Director, NIH Summer Research Apprenticeship Program UNC-CH School of Medicine.
1980-81	Tutor coordinator, UNC-CH, Upward Bound Program
1981	Teaching assistant for graduate course "Cellular and Molecular Biology of Cancer," UNC-CH School of Medicine
1984	Instructor, "Introduction to Genetics", Undergraduate course University of Chicago.
1986	Guest Lecturer (6 lectures) in course, "Human Genetic Disorders" University of Chicago
1989-91	"Medical Microbiology-620", Virology section (12-18 lectures). University of Michigan Medical School
1990	Guest lecturer (2-3 lectures) "Animal Viruses" Microbiology 602.
1990	Guest lecturer (1 lecture), Biochemistry 415.
1992	Introductory lectures (3 hrs) in "Animal Viruses" Microbiology 602.
1993	Course Director, Seminar-tutorial course "Advanced Topics in Virology", Micro. 603. (With L. Post), "Virus-cell interactions as determinants of pathogenesis and tropism"
1993-94	Virology Section, Fundamental Microbiology (for 1st year medical students)
1993	Organizer, Multi-disciplinary Conference for medical students

"Host Cell-Microbe Interactions: Human Herpesviruses"

1993-97 Faculty "Infectious Diseases" Team-taught course, 2nd year medical students.

1994 Small group leader. "Infectious Diseases", 2nd year medical students.

1995 Course Director, "RNA Tumor Viruses", team taught module for graduate students.

1996-98 Cellular and Molecular Biology 850, Student seminar class. Course Director 1997-98.

1995-2004 Course Director, "Cellular and Molecular Determinants of Viral Pathogenesis", 10 lecture module course for graduate students.

1994-2004 Faculty (10-15 lectures in virology), Micro. 532 for Yr 1 dental students.

1996-98, 2000-2004 Course Director, Microbiology 532, University of Michigan School of Dentistry

2005-2011 Small group instructor, Infectious Diseases, Medical students-Yr 1

2005- Course faculty, Integrated Medical Sciences I-II, Yr 1 and Yr 2 students, UM School of Dentistry. Transformed in 2010 to Dent 639, 640, 643, 644

2004- "The Biology of HIV and AIDS". Training workshops with clergy leaders and members, 3rd and 4th Episcopal Districts, the African Methodist Episcopal Church

2006- "HIV/AIDS prevention and elimination" Workshop sessions, Lusaka, Kitwe, Ndola, Livingstone Zambia; Evaton, South Africa; Wilberforce, Ohio

2006 Guest faculty lecture, "HIV and AIDS Prevention", UM, Undergraduate Literature, Arts and Sciences, Richard Meisler, Course Director

2007 Guest faculty lecture, "The global impact and biology of HIV and AIDS". Epidemiology 605, UM School of Public Health, B. Foxman and A. Aiello, Course Directors

2008 Co-Director, Theological Practicum 101B "Biology and Behavior Perspectives to Address the HIV/AIDS Pandemic. New graduate course developed and taught with W. Augman, Payne Theological Seminary, Wilberforce, OH, Spring 2008

2008-10 Course faculty, Introduction to Infectious Diseases, UM-Microbiology 405. Nine contact hours on pathogenic human viruses in team taught course.

2009- Course Director, Community Engagement Training – Payne Theological Seminary, 6 day Intensive, "The Biology of HIV/AIDS: What Effective Clergy Should Know" (Masters students from across the USA). Includes option for HIV rapid test provided in collaboration with the Green County Department of Health, Dayton-Wilberforce, Ohio

2009-10 Teaching Fellow, UM Global Intercultural Experience for Undergraduates (GIEU). Developed field course and lead student team to Lusaka, Zambia for study abroad research to validate a model for HIV/AIDS prevention through clergy networks.

2010- Faculty, Dentistry 533, Infection and Immunity. Replaced an IMS-I course as a foundation basic science course for Yr 1 dental students.

2010- Course Director, Micro 450, "Global Impact of Microbes: Fieldwork", Developed and led department undergraduate course piloted as a Global Connection Course. Team field site immersion in 2010, 2012, 2013, 2015, 2016.

2012- Faculty, Microbiology 405, Introduction to Infectious Diseases. 10-14 contact hrs. Undergraduate course team taught with department faculty.

2013 Visiting fellow, Centers for Disease Control and Prevention- Zambia, "Trusted

- Messenger Intervention as a science-based approach to HIV/AIDS education.” Discussion and strategies to effectively engage religious leaders as community gatekeepers and to increase HIV testing and counseling.
- 2013 Facilitator of four focus groups of interdenominational clergy as community gatekeepers in practical implementation of HIV/AIDS prevention and control discoveries. Copperbelt and Southern Provinces, Zambia, April-July
- 2013 Facilitator of Training Workshops, Four 2-day sessions in Copperbelt, Lusaka and Southern provinces -Zambia. “Trusted Messenger Intervention to Eliminate HIV/AIDS”. Collaboration with Ministry of Health and New Start NGO to provide HIV rapid testing for religious leaders. (> 320 tested), May-September
- 2013 Designed and facilitated 3-hr training session with lay religious leader delegates (180 attendees) on “Strategies to Understand and Eliminate HIV/AIDS Stigma.” BOCE Congress, Kabwe Trade Training Institute, Kabwe, Zambia, May
- 2013 Designed and facilitated three 4-hr follow-up evaluation sessions of TMI training workshops to evaluate outcome of religious leader mobilization. July-October

Committee, Organizational and Volunteer Service

University Service:

- 1982 Member of Advisory Committee to Develop Minority Faculty for the Basic Sciences, UNC-CH School of Medicine
- 1989-90 Faculty Search Committee, Immunology, Dept. Microbiology and Immunology
- 1991-92 Dean's Task Force for Recruitment, Retention and Development of Faculty UM School of Medicine
- 1989- Numerous panel presentations/seminars on science and research for graduate, undergraduate and high school students, UM, Ford Foundation.
- 1992-93, 1996-98 UM Biosafety Committee. Reviewer of grants using virus vectors in genetic therapy
- 1992-93 Virology Faculty Search Committee, Dept. Microbiology and Immunology
- 1993-96 Dean's Faculty Focus Advisory Group. UM School of Medicine
- 1993-94 Undergraduate Mentors Program Resource Person for Biological/Biomedical Sciences.
- 1993-96 UM Diversity Committee (Medical School)
- 1996 Chairperson of Research Subcommittee. Dept. Microbiology and Immunology internal review.
- 1994-99 Awards, Promotions and Appointments, Dept. of Microbiology and Immunology Committee, Member
- 1995-99 Chairperson, Awards, Promotions and Appointments, Dept. of Microbiology and Immunology Committee
- 1994-95 Virology Faculty Search Committee, Dept. Epidemiology, School of Public Health
- 1995-96 Faculty Search Committee, Immunology, Dept. Microbiology and Immunology
- 1995-96 Chairperson, Faculty Search Committee, Viral Pathogenesis. Dept. Microbiology and Immunology
- 1995-99 Member, Steering Committee, Women of Color Faculty in the Academy Project.

- Steering Committee guided successful completion of “Through My Lens” video documentary. Funded by a three year grant to the Center for the Education of Women.
- 1997-98 Member, Dept. of Microbiology and Immunology 5-year review, Appointed by Dean of the University of Michigan Medical School
- 1999 Strategic Planning Process, University of Michigan Health Systems, Research Subcommittee.
- 2003-07 Rackham Academic Appeals Board, Appointed faculty member, Rackham Graduate School.
- 2006-08 Biology Safety Level 3 Review Committee, Department of Microbiology and Immunology
- 2006- Member of program of UM researchers with studies in Africa or on HIV/AIDS-Global REACH
- 2007 Panelist, Center for Education of Women, Academic research for women faculty
- 2007-15 Committee Member, Graduate Studies or Promotions, Appointments and Awards, Department of Microbiology and Immunology
- 2008 Reviewer for research grant applications to UM Office of Vice President for Research (OVPR), CTSA and CCMB
- 2010, 2011 Reviewer UM-OVPR internal research applications
- 2014, 2015 Reviewer, UM-MICHR Translational Postdoctoral fellowships
- 2014- Faculty resource, Office of Health Inclusion and Equity, UMHS
- 2015 Member, Institutional Group Project Team, Governance-Annual Faculty Review, Inaugural Ansbacher Women in Academic Leadership Program, Office of Faculty Affairs, UMHS

National and International Service

- 2012 Chairperson of Committee for the Inaugural Senior Ford Foundation Fellows Conference for Celebrating Ford Fellowship 50th Anniversary. National Research Council National Academies of Science.
- 2012 Author, Weekly column, “Getting to Zero”. Print and on-line in *The Christian Recorder*. Official publication distributed to members of global African Methodist Episcopal Church network in 40 countries. Column content covers use of biomedical science discoveries about HIV/AIDS to mobilize community religious leader gatekeepers.
- 2013-16 Weekly column, “Getting to Zero”. Expanded by request to include topics on prevention and control of infectious diseases (e.g. influenza, HPV, HIV/AIDS) and chronic diseases (e.g. diabetes, cancer, obesity). AME Church Department of Publications.
- 2013 Collaborating partner for strategies to inform clergy and religious leaders on HIV/AIDS prevention and control. Council of Churches of Zambia (CCZ).

Consulting

- 1987-89 DeVeras, Inc. Dallas, TX
- 1992 Parke-Davis Pharmaceutical Research Division, Warner Lambert Company,

	Ann Arbor, Michigan
1996- 2002	Educational Testing Service, Committee of Examiners for GRE Biology Test, Princeton, N.J. (One of six professors nationally).
2005, 2007	Consultant, Office of the President, Payne Theological Seminary, Wilberforce, OHIO
2005-06, 2008	Global AME Church - Service and Development Agency, Washington, D.C.
2007	Council of Bishops, Dept. of Global Witness and Ministry, AME Church
2006-	Payne Theological Seminary. Consultant for clergy and community ministry training in HIV/AIDS prevention.
2008-10	Dexter Community Schools, Embracing diversity in seeking excellence in student education, Member of Steering Committee.
2009- 2009	Global AME Church - Service and Development Agency, Washington, D.C. Howard University Hospital, Think-tank: strategic planning for more effective holistic healthcare to engage spirituality and medicine
2010-12	Project SAVED. Center for AIDS Health Disparities Research, Meharry Medical College. CDC funded project for HIV/AIDS prevention in 13 southern USA States. Trainer/Consulting Scientist
2013	Consultations, Ambassador and Deputy Director of USA Embassy in Zambia, Director of CDC-Zambia, Director of PEPFAR –Zambia; US State Department, "Strategies to increase HTC (HIV Testing and Counseling) through Religious Leaders as Gatekeepers in HIV/AIDS Prevention and Control in Zambia"
2015-	Connectional Health Commission, Global entity of the AME Church

Visiting Professorships, Seminars and Extramural Invited Presentations

Invited Presentations/Seminars: (selected list)

- North Carolina Central University, Dept. of Biology. 03/1990.
- University of Michigan, Dept. of Epidemiology. 10/1990
- North Carolina Agricultural and Technical State University, Artis P. Graves Annual Lecture
Dept. of Biology, Greensboro, NC. 03/1991
- University of Michigan, Cellular Biotechnology Program. 04/1991
- Museum of Science and Industry, Panelist for "Women in Science". Chicago, IL. 02/1992
- Parke-Davis Pharmaceutical Division, Warner-Lambert Company. Seminar "Herpesvirus interactions with cells that determine entry and tropism." 10/1992
- Northwestern University, Dept. of Microbiology and Immunology. 11/1992
- University of California-Irvine, Program in Animal Virology. 12/1992.
- American Society for Microbiology Visiting Professor to Florida A&M University. 02/1993.
- National Institutes of Health, Conference "Glycobiology: New Perspectives on Human Disease." Invited talk "Multiple attachments of herpesvirus during cell entry." 09/1993.
- Aastrom Biosciences, Ann Arbor, MI, "Viral entry and gene therapy implications", 05/1995
- University of North Carolina, Comprehensive Cancer Center, "Herpesvirus entry: implications for host tropism, pathogenesis and gene delivery." 10/1995
- Association of American Medical Colleges, Faculty Career Development Conference. Co-presenter of workshop "Special Challenges Facing Minority Faculty". Bethesda, MD. 1992-96.

- University of Michigan, Dept. Microbiology and Immunology, "Herpesvirus entry: implications for host tropism, pathogenesis and gene delivery". 01/1996
- University of Michigan, Program in Molecular Medicine and Genetics, "Herpesviruses as vectors for gene delivery". 02/1996
- Princeton University, Dept. of Molecular Biology, "Herpes simplex virus entry, tropism and vector development". 01/1997
- Spelman College, Dept. of Biology, "Entry and tropism of herpesviruses". 02/1997
- Cornell University, "Herpes simplex and pseudorabies virus entry, tropism and vector development". 03/1997
- Eastern Michigan University, Dept. of Biology, "Herpes simplex virus entry, receptors and vector development". 10/1997
- Arizona State University, Dept. of Microbiology, "Cellular receptors infection of herpes simplex virus." 11/1997
- Medical College of Ohio, Dept. of Microbiology, "Cellular receptors for HSV". 03/1998
- Ford Foundation Fellows Annual Conference. Plenary session presentation; "Through My Lens". Irvine CA, 10/1998.
- University of Houston, Dept. of African American Studies. "Through My Lens", Keynote Speaker for Martin Luther King Day Celebration. Houston, TX, 01/1999
- Morehouse College, Dept. of Biology. "Cellular receptors in infection for herpes simplex virus". Keynote speaker for the Fred Mapp 11th Annual Science Symposium. Atlanta, GA, 04/1999
- Parke-Davis Division, Warner Lambert Pharmaceuticals, "Simplifying the Complex: Receptors and unique motifs in entry of herpes simplex virus". 03/2000
- University of Michigan, Dept. Microbiology and Immunology. "Simplifying the Complex: Receptors and unique motifs in entry of herpes simplex virus." 04/2000
- Harvard Medical School, Dept. Microbiology and Molecular Genetics, "Simplifying the Complex: Receptors and unique motifs in entry of herpes simplex virus", 03/2001.
- University of Puerto Rico, Cayey Campus, Dept. Biology, "How viruses enter into cells", 04/2002.
- 4th International Viral Assembly Conference, Oral presentation and poster. "A new receptor for HSV entry." Alghero, Sardinia. ITALY. 09/2003
- Mary Bethune-Cookman College, Dept. Biology. "HIV and AIDS Biology and Preventions". 01/2004.
- University of Michigan, Dept. Microbiology and Immunology. "Herpes simplex virus entry, receptors and dementia?" 02/2004
- University of New Mexico, Dept of Microbiology, "Herpes simplex virus entry, receptors and dementia" 04/2004.
- AMEC WMS International Executive Board Conference, "The Biology of HIV/AIDS", Atlanta. GA, 01/2005.
- International Congress for Virology, Viral Receptors and Entry, San Francisco, CA, 07/2005
- AMEC Illinois Annual Conference, "The Biology of HIV and AIDS", Decatur, IL, 09/2005.
- American Society for Microbiology / Centers for Disease Control sponsored. International Conference on Women and Infectious Diseases, "A pilot study determines effectiveness of a structured religious organization in increasing awareness of HIV and AIDS or HPV and cervical cancer." Atlanta, GA, 03/2006

- University of Michigan, Office of the President, Panelist, Presidents Initiative on Ethics in Public Life Forum. “What will it take to prevent or treat diseases like HIV/AIDS and malaria across the globe?” 04/2006
- General Board of the AMEC Conference, Global Witness Commission report, Establishing partnerships for HIV/AIDS prevention, treatment and OVC with the USAID, PEPFAR New Partners Initiative (NPI). Charleston, South Carolina. 06/2006
- Albion College Faculty, “A model of HIV/AIDS prevention in southern Africa”. Albion, Michigan 08/2006
- AMEC Illinois Annual Conference, “The Biology of HIV and AIDS”, Decatur, IL, 09/2006.
- Midwest Regional Conference, Church Women United, “The Biology of HIV and AIDS: What you must know” Indianapolis, Indiana. Seminar, workshop and keynote speaker, 10/2006.
- University of Michigan, “Innovation, purpose, courage and truth”, Keynote talk, ML King Day Celebration, Undergraduate Research Opportunity Program (UROP), 01/2007
- Global Development Council, African Methodist Episcopal Church. Workshop “The Biology of HIV and AIDS: reversing the global impact” Capetown, SOUTH AFRICA. 02/2007
- Spelman College, “Exploring human pathogenic viruses: innovation, purpose, courage and truth” MBRs Program, Atlanta, Georgia, 03/2007.
- Interdenominational Theological Seminary (ITC), “An HIV/AIDS Science-based prevention model for training of clergy and faith leaders.” CDC/ITC sponsored conference “Breaking the Silence; Church Conversations about HIV and AIDS”. Atlanta, Georgia, 03/2007
- Global Women’s Missionary Society, AMEC Executive Board Conference. “When Christian faith meets social justice: What you should know about HIV and HPV- a hands-on workshop.”Norfolk, VA, 01/2008
- University of North Carolina- Charlotte, “Exploring human pathogenic viruses: innovation, purpose, courage and truth”, Charlotte, N.C., 02/2008
- Meharry Medical College, Women’s Health Center, Keynote speaker, Focus on HIV/AIDS. “Understanding HIV/AIDS as a Preventable Virus Infection” 03/2008
- Meharry Medical College, Center for AIDS Research and Health Disparities. Nashville, TN “Exploring human pathogenic viruses: innovation, purpose, courage and truth” 03/2008
- Invited plenary session talk, Ford Fellows Conference, National Academies of Science. “From Sea to Shining Sea’ - An Innovative Science-based Intervention through Faith Leader Networks can Reframe HIV/AIDS”, Washington, DC, 09/2008
- University of Arizona, MARC Program, “Exploring human pathogenic viruses: innovation, purpose, courage and truth.” 10/2008
- University of California-San Diego, Plenary talk, 2nd International HIV/AIDS Prevention Conference, NIH funded Center for AIDS Research. “An Innovative Science-based Intervention through Faith Leader Networks can Reframe HIV/AIDS.” 10/2008
- Howard University Hospital, Invited plenary talk, “The faith and science tension”, 12th Annual Spirituality and Medicine Conference. 03/2009

- California State University, Northridge - “Exploring human pathogenic viruses: innovation, purpose, courage and truth.” 09/2009

- Taylor University – *Scientists as Servants* Seminar Series. “Exploring human pathogenic viruses: innovation, purpose, courage and truth.” 10/2009
- Invited plenary talk, Black Methodists for Church Renewal, Inc. 43rd Annual Meeting. “*When Christian Faith Meets Social Action- Back to the Future*” (What Effective Clergy and Laity Should Understand about HIV and AIDS), Jacksonville, Florida, 03/2010
- Florida International University- Distinguished Lecture Series, “An Innovative Biomedical Approach to HIV/AIDS Prevention through Religious Leader Networks, McNair and MARC U Star Programs. 05/2010.
- Huron University College, Centre for Public Theology Annual Conference, “HIV/AIDS and the Churches: Response to the Pandemic in Africa and Canada”. Huron University College London, Ontario, CANADA, 05/2010
- University of Zambia, and University Teaching Hospital, Lusaka, ZAMBIA, “The Trusted Messenger Intervention through Clergy Leaders to Address HIV/AIDS, 07/2010
- Arkansas Minority Health Commission, “The Biology of HIV/AIDS: reframing HIV/AIDS for clergy and religious leaders.” Little Rock, Arkansas, 02/2011 (2 presentations)
- Caswell County NAACP MLK Day Celebration, Invited keynote talk. 02/2011
- Albuquerque Community and Ministerial Alliance, “The Biology of HIV/AIDS: Reframing HIV/AIDS. 03/2011
- Center for Global Health, University of Michigan, “The Influence of Clergy Leaders on the Impact of HIV/AIDS in Times of Peace or Trauma”. 03/2012
- Department of Microbiology and Immunology, “Getting to Zero: Moving Towards Elimination of HIV/AIDS”. University of Michigan, School of Medicine, 03/2012
- Charles Drew Science Scholars Program, “Getting to Zero: Interventions towards Eliminating HIV/AIDS.” Michigan State University, East Lansing, Michigan, 01/2013
- Keynote Address, 17th Episcopal District of the AMEC- BOCE Congress, “Eliminating HIV/AIDS through the Trusted Messenger Intervention: A 17th Episcopal District Update”. Kabwe Trade Training Institute, Kabwe, Zambia, 05/2013
- Centers for Disease Prevention and Control-Zambia, “UNAIDS STRATEGY: 2011-2015 Getting to Zero: Intervention Toward Eliminating HIV/AIDS”, 07/2013
- UMAPS Symposium, “Trusted Messengers: Transforming Biomedical Research and Education to Improve Health”, African Studies Center, University of Michigan, 02/2015, 10/ 2015 and 09/2016
- Ford Foundation Annual Conference, “Invisible Labor and Faculty Scholars of Color”, National Academy of Sciences, Washington, DC, 09/2015
- Michigan Interventions in HIV Treatment and Prevention: A Symposium of Research, Practice and Treatment, “Towards HIV/AIDS Elimination: Trusted Messengers for HIV Prevention”, University of Michigan, 11/2015
- 26th Annual Science, Community Engagement and Technology Conference, Plenary talk, “Towards HIV/AIDS Elimination: Equipping Trusted Messengers to Address a Viral Pandemic”, University of Gondar, Gondar, Ethiopia, 05/2016
- 200th General Conference of the African Methodist Episcopal Church- Plenary training session by Health Commission plenary training, “What Effective Clergy Should Know about HIV/AIDS, HPV and Zika Virus.” Philadelphia. PA 07/2016
- Ford Foundation Fellows Annual Conference - National Academy of Sciences, “Towards HIV/AIDS Elimination: Equipping Trusted Messengers to Address a Viral Pandemic” Ford Fellows Plenary, Washington, D.C. 09/2016

Patents

Fuller, A.O., A. Perez, G. Subramanian, Q-X. Li and N. McLaren. "Compositions and methods for identifying and testing therapeutics against HSV infection". USA Patent #6,051,385. Issued 4/18/2000.

Bibliography

Peer-reviewed Journals and Publications

Publications:

Fuller, A.O. and P.G. Spear (1985). Specificities of monoclonal and polyclonal antibodies that inhibit adsorption of herpes simplex virus to cells and lack of inhibition by potent neutralizing antibodies." J. Virol. 55:475-482.

Stannard, L.S., **A.O. Fuller** and P.G. Spear (1987). "Herpes simplex virus glycoproteins associated with different morphological entities projecting from the virion envelope. J. Gen. Virol. 68:715-725.

Fuller, A.O. and P.G. Spear (1987). Anti-glycoprotein D antibodies that permit adsorption but block infection by herpes simplex virus 1 prevent virion-cell fusion at the cell surface. Proc. Natl. Acad. Sci. USA 84:5454-5458.

Spear, P.G., M. Wittels, **A.O. Fuller**, D. WuDunn and R. Johnson (1988). "Herpes simplex virus: pathway of entry into cells," in Cell Biology of Viral Entry, Replication and Pathogenesis (eds. R.W. Compans, A. Helenius and M.B.A. Oldstone, Alan R. Leiss, New York, NY) p. 163-175.

Fuller, A.O., R. Santos and P.G. Spear (1989). Neutralizing antibodies to gH of herpes simplex virus do not block attachment but prevent penetration of virus. J. Virol. 63 (8):3535-3443.

Fuller, A.O. (1989). AIDS, health and the black community: the virus infection. J. Natl. Technical Association 62(4):57-64.

Williams, C.C. and **A.O. Fuller** (1990). AIDS, health and the black community: social and political issues. J. Natl. Technical Association 63(4):64-68.

Fuller, A.O. and M.A. Savageau (1990). Biomedical research sciences: On the front lines of medicine, biotechnology and space. J. Natl. Tech. Association 64(1):91.

Fuller, A.O. and W.C. Lee (1992). Herpes simplex virus type 1 entry through a cascade of virion-cell interactions requires different roles of gD and gH in penetration. J. Virol. 66(8):5002-12.

Lee, W.-C. and **A.O. Fuller** (1993). Herpes simplex virus and pseudorabies virus bind to a common saturable receptor during entry into Vero cells. J. Virol. 67(9):5088-5097.

Fuller, A.O. (1993). Viruses as vectors. J. Natl. Technical Association. 67(3):46.

Subramanian, G. and **A.O. Fuller** (1994). Swine testis cells contain functional heparan sulfate but are defective on entry of herpes simplex virus. J. Virol. 68(9):5667-5657.

D.S. McClain and **A.O. Fuller** (1994). Cell specific kinetics and efficiency of herpes simplex virus type 1 entry are determined by two distinct steps of attachment. Virology. 198:690-702.

Fuller, A.O. (1994). Microbes and the proteoglycan connection. J. Clin. Invest. 93(2):460.

Subramanian, G., R.A. LeBlanc, R. Wardley and **A.O. Fuller**. (1995) Defective entry of herpes simplex virus types 1 and 2 into porcine cells and lack of infection in infant pigs indicate species tropism. *J. Gen. Virol.* 76(9):2375-2379.

Andreadis, S., D. Brott, **A.O. Fuller** and B.O. Palsson. (1997) Moloney murine leukemia Virus vectors decay intracellularly with a half-life in the range of 5.5 to 7.5 hours. *J. Virol.* 71(10): 7541-7548.

Andreadis, S., **A.O. Fuller** and B.O. Palsson. (1998) Cell cycle dependence of retroviral transduction: an issue of overlapping time scales. *Biotechnology and Bioengineering* 58(2-3): 272-281.

Perez, A. and **A.O. Fuller**. (1998) Stable attachment for herpes simplex virus entry requires gD in the virion and receptors that are missing on entry-defective porcine cells. *Virus Research*, 58:21-34.

Fuller, A.O. and Pilar Perez-Romero. (2002) Mechanisms of human DNA virus infection: entry and early events. *Frontiers in Bioscience* 7:d390-406.

M. Yang, N. Srivastava, R. Lin, M. Burns, M. Solomon, D. Burke, **A.O. Fuller**, L. Herlocher, R. Larson, (2003) "The Development of Microfluidic Devices for Influenza A Detection and Genotyping", Proceedings of the International Conference on Options for the Control of Influenza V, Oct. 7-11, 2003, Okinawa, Japan, International Congress Series 1263, Elsevier, New York, pp. 365-371.

Fuller, A.O. "The Biology of AIDS". (2004) In HIV and AIDS: A Global Pandemic and the Village Crisis. (Editor, P. Jones-Penn, Corporate Press, Inc. Landover, MD) p. 113-120.

Perez-Romero, P., A. Perez, A. A. Capul, N. McLaren, R. Montgomery and **A. O. Fuller**. (2005) Herpesvirus entry mediator (HVEM) associates in infected cells in a complex with viral protein gD and at least gH. *J. Virology* 79(7): 4549-4544.

Perez, A., Q.-X. Li, P. Perez-Romero, G. Delassus, N. McLaren, S. Sutter, and **A. O. Fuller**. (2005) A new class of cellular receptor for herpes simplex virus has heptad repeats common to membrane fusion proteins. *J. Virology*. 79(10): 7419-7430.

Perez-Romero, P. and **A.O. Fuller**. (2005) The C-terminal coiled coil predicted in the B5 receptor protein functions in herpes simplex virus infection. *J. Virology* 79(10): 7431-37.

M. Burns, R. Pal, M. Yang, R. Lin, B.N. Johnson, N. Srivastava, S.Z. Razzacki, K.J. Chomistek, D. Heldsinger, R. M. Haque, V. Ugaz, P. Thwar, Z. Chen, K. Alfano, M.-B. Yim, M. Krishnan, **A.O. Fuller**, R. Larson, D. Burke, (2005) An integrated microfluidic device for influenza and other genetic analyses, *LabChip*, 5(10): 1024-1032.

Estes, D.J., S.R. Lopez, **A.O. Fuller** and M. Mayer. (2006) Triggering fusion of membranes in microfluidic chambers, *Biophysics J.* 91(1):233-243.

Brown, O.J., S. Lopez, **A.O. Fuller** and T. Goodson III. (2007) Formation and reversible dissociation of coiled coil of peptide to the C-terminus of the HSV B5 protein: time-resolved spectroscopic and non-linear optical analysis. *Biophysics J* 93(3):1068-78. Epub 2007 May 11.

Fuller, A.O. (2007) Managing Health Care Well: The Stewardship of the Black Church, in Healthcare Resources for Addressing HIV/AIDS: A Payne Theological Seminary Model. (E. Croom, W. Augman, **A.O. Fuller**, L Fitchue. In The Anvil: Managing Well 2007-2008. published by the AMEC Council of Bishops. The African Methodist Episcopal Church, Nashville, TN).

Poecht, T., S. Lopez, **A.O. Fuller**, M. Sullivan, R. Larson (2008). Adsorption and elution characteristics of nucleic acids on silica surfaces and their use in designing a miniaturized purification unit, *Analytical Biochemistry*. 373:253-262

Fuller, A.O. (2008). Breaking the Silence: A science-based prevention intervention that empowers faith leaders to address challenges of HIV/AIDS. *J. Interdenominational Theological Center*. 35 (1-2): 191-202.

Fuller, A.O., (2009). The faith and science tension. Invited paper published for the 12th Annual Spirituality and Medicine Conference, Howard University Hospital.

Cheshenko N, Trepanier JB, Segarra TJ, **Fuller AO**, Herold BC, (2010) HSV Usurps Eukaryotic Initiation Factor 3 Subunit M for Viral Protein Translation: Novel Prevention Target. *PLoS ONE* 5(7): e11829. doi:10.1371/journal.pone.0011829

Fitchue, L and **A.O. Fuller** (2011). “Why Teach a Seminary Course on HIV/AIDS: Payne Theological Seminary’s Innovation in Curriculum Delivery.” *The Anvil: Innovation* (published by the AMEC Council of Bishops. The African Methodist Episcopal Church, Nashville, TN) ISBN: 978-0-977-1578-3-3 p. 255-296.

Dissertation:

Fuller, A.O. (1983). Structure/function studies of plant toxins ricin and abrin. UNC-CH doctoral dissertation.

SUMMARY OF RESEARCH (<http://www.med.umich.edu/microbio/bio/fuller.htm>)

My laboratory research explored molecular mechanisms of how human pathogenic viruses enter into cells to mediate early events of infection, membrane fusion and spread, and how these affect pathogenesis and disease using herpesviruses HSV-1 and HSV-2. Experimental systems provide insight into virus entry, cellular receptors, herpesvirus tropism and pathogenesis, biological membrane fusion, and approaches to control and prevent infection by viral pathogens. My interdisciplinary collaborative research applies biomedical science information about viruses to develop potential anti-virals, detect genetic variation, promote effective interventions and increase community mobilization for disease prevention.

Recent translation research in implementation science for global health seeks to develop and rigorously document impact of intervention models for transfer of biomedical science discoveries/advances into broader community use to prevent infectious and chronic diseases. We use principles from virology, sociology network theory and health behavior/health education to determine effectiveness of a biomedical science-based approach designated “Trusted Messenger Intervention” (TMI). TMI reframes HIV/AIDS in established networks of clergy and faith leaders as influential opinion leaders and community gatekeepers. A science-based curriculum provides in-depth understanding to build capacity of religious leaders to confidently address HIV/AIDS. Social science quantitative and qualitative methods are used to determine outcomes of increased understanding and testing for HIV infection, linkage to healthcare and reduction of stigma. Through IRB-approved field studies, we determine impact and seek to define key elements of TMI as a low-cost vehicle for translating biomedical advances into community use. Collaborators in public health, government, universities and established global networks of religious leaders globally are in Kitwe, Livingstone and Lusaka, Zambia and in Ohio, USA. Most recently, this focus includes studies of how to enhance cultural proficiency of researchers, educators and students for immersion into new locations.