


MICHIGAN STATE
UNIVERSITY

September 9, 2022

To: University Committee on Faculty Affairs

From: Teresa K. Woodruff, Ph.D. 
Provost and Executive Vice President for Academic Affairs

Subject: Support in Granting Emeritum Status for Frances Pouch Downes

The *Emeritum* policy in the Faculty Handbook provides that “Faculty and academic staff who end their employment at the University after a substantial period of distinguished service, but short of the years of service needed for retirement eligibility, may be granted emeritum status by the President upon the written recommendation of the Provost after the Provost consults with the UCFA.”

Pursuant to the *Emeritum* policy, I seek your consultation on the attached request from Dean Duxbury. I have reviewed the request and recommend the granting of Emeritum status to Dr. Frances Pouch Downes. Dean Duxbury’s letter provides the basis for the recommendation and Dr. Frances Pouch Downes’ accomplishments and contributions to MSU during her career at Michigan State University. I ask that this request be considered by the University Committee on Faculty Affairs at their next meeting on Tuesday, September 13, 2022.



Cc: Ann E. Austin, Ph.D.
Kara Yermak, MHRLR

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PROVOST**

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MICHIGAN STATE UNIVERSITY

July 26, 2022

To Whom It May Concern:

This is a request to award Dr. Frances Pouch Downes emeritum status. Dr. Downes joined the BLD faculty in 2012. She was the Director of the Bureau of Laboratories at the State of Michigan Health and Human Services. Due to her accomplished career prior to joining MSU, she was hired with the Professor title as a rolling fixed term.

During her time with BLD she established a study abroad experience for students in Malawi. Dr. Downes also provided consulting services for the Association for Public Health Laboratories (APHL) primarily with labs in Indonesia. She also was awarded the Lifetime Achievement Award by the APHL, their highest honor.

Dr. Downes is going to retire at the end of this academic year (8/15/22) but does not have the time in rank to be considered an MSU official retiree. She clearly represented the BLD unit and MSU well during her years of service and will remain active in the clinical/public health laboratory community. I am asking that she be given the emeritum title.



**College of
Natural Science**

**Biomedical
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Diagnostics**

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Respectfully,

A handwritten signature in black ink, appearing to read "John A. Gerlach".

John A. Gerlach, Ph.D., D(ABHI)

Professor and Program Director

A handwritten signature in blue ink, appearing to read "Phillip M. Duxbury".

Phillip M. Duxbury

Dean, College of Natural Science

FRANCES POUCH DOWNES

Home Address

660 Snyder Road
East Lansing, MI 48823
USA

Work Address

306 North Kedzie Hall
354 Farm Lane
Michigan State University
East Lansing, MI 48824
USA
E-MAIL downesf@msu.edu

Education

1987 Dr.P.H. Laboratory Practice
University of North Carolina
Chapel Hill, NC

1985-87 Pre-Doctoral Fellow
Centers for Disease Control
Atlanta, GA

1985 M.P.H. Laboratory Practice
University of North Carolina
Chapel Hill, NC

1980 B.S. Medical Technology
Indiana University
Bloomington, IN

1979-80 Medical Technology Internship
Indiana University Hospitals
Indianapolis, IN

Professional Experience

2012-present Professor, Biomedical Laboratory Diagnostics
Program College of Natural Science and Public
Health Program College of Human Medicine. Michigan
State University, East Lansing, MI

1999-2012 Administrator and State Public Health Laboratory
Director, Bureau of Laboratories, Michigan
Department of Community Health, Lansing, MI

Frances Pouch Downes, Dr.P.H.

- 1997-1999 Director, Infectious Diseases Division, Bureau of
Laboratories, Michigan Department of Community
Health, Lansing, MI.
- 1995-1997 Managed Care Coordinator
Laboratory Services Division, Michigan Department
of Community Health, Lansing, MI
- 1992-95 Independent Consultant
Niamey, Niger, West Africa
- 1990-92 Chief, Virology Section
Michigan Depart.Public Health, Lansing, MI
- 1990 Chief, Viral Serology Unit
Michigan Depart. Public Health, Lansing, MI
- 1988-90 Assistant Chief, Microbiology Section
Michigan Depart. of Public Health, Lansing, MI

Advisory Committee Appointments

- API Scientific Advisory Board. Traverse City, MI. (2018-present)
- Centers for Disease Control and Prevention Laboratory Quality
Council Ex Officio Member (2015-2018)
- NewSteps (Newborn Screening Technical Assistance and Evaluation
Program Steering Committee) Association of Public Health
Laboratories (2012-2014)
- United States Department of Health and Human Services, Center for
Disease Control and Prevention, Advisory Committee for the
Elimination of Tuberculosis, Association of Public Health
Laboratories Representative (2010- 2012)
- Michigan Neonatal BioBank (a non-profit organization) Board of
Directors (2009- 2012)
- Michigan BioTrust for Health Scientific Advisory Board
(2009-present)
- Newborn Screening Translational Research Network
Laboratory Workgroup, American College of Medical Genetics
Michigan Local Public Health Accreditation Commission (2008-2012)

Frances Pouch Downes, Dr.P.H.

Advisory Committee Appointments (continued)

Michigan Local Public Health Accreditation Committee. Michigan Department of Community Health representative. (2008-2012)

United State Department of Health and Human Services, Centers for Disease Control and Prevention National Center for Infectious

Diseases Board of Scientific Counselors (2003-2007)
United States Department of Agriculture National Advisory Committee for the Microbiological Standards for Foods (2001-2004)

Adjunct Professor, Biomedical Laboratory Diagnostics Program (formerly Medical Technology and Biosystems and Agriculture Engineering, Michigan State University, East Lansing, MI

National Kidney Foundation Michigan Scientific Advisory Board(2003-2009)

Michigan Cancer Consortium Cervical Cancer Committee (2004-07)

University of Michigan School of Public Health Academic Health Center Advisory Council (appointed June 2004)

Governor's Task Force on Childhood Lead Prevention (2003-04)

Michigan-Ontario Border Health Steering Committee and Laboratory Subcommittee Co-Chair(2004-07)

MSU Center for Microbial Pathogenesis External Advisory Board (2004)

Michigan State University Committees

Accreditation Committee. Public Health Program (2017-present)

Core Course Committee. Public Health Program (2017-present)

College of Natural Sciences Faculty Advisory Committee (2014-2018)

Admissions Committee. Public Health Program (2012-14, 2016-2017)

Institutional Biosafety Committee (2013-present)

Frances Pouch Downes, Dr.P.H.

Michigan State University Courses

MMG 463 Medical Microbiology
MMG 201 Fundamentals of Microbiology
MMG 365 Introduction to Medical Microbiology
MMG 465 Advanced Medical Microbiology
BLD 450 Eukaryotic Pathogens
BLD 861 Emerging Infections, Emerging Technology
BLD 366 Infectious Diseases of Africa
BLD 478 Advanced Clinical Microbiology
BLD 445 Laboratory Management
BLD 456W Medical Laboratory Professionalism
HM 804 Public Health Policy and Administration
HM 801 Introduction to Public Health
HM 815 Introduction to Public Health Laboratory Data

International Experience

2017-present Blantyre, Malawi, Michigan State University Study
Abroad Program Director, Infectious Diseases of
Africa. Advisor to the Glasgow University and
Malawi Medical College.

2016 Tanzania Ministry of Health Strategic Planning for
Laboratory Systems. Consultant to Association of
Public Health Laboratories, Morogoro, Tanzania

2016- present Indonesia Centers for Disease Control and
Prevention Country Office, Global Health Security
Agenda Planning, Consultant to Association of
Public Health Laboratories, Jakarta, Indonesia

2015 Switzerland, Michigan State University Study
Abroad Instructor

2014 Quality Management Systems Training Workshop,
Consultant to Association of Public Health
Laboratories, Port-au-Prince, Haiti

2011- 2013 Risk Factors for Acquisition of Measles Study,
Laboratory Consultant, M. Boulton (Primary
Investigator). Tianjin, China.

2011-2016 Member Country Lead. Mozambique. Global Health
Program. Association of Public Health Laboratories

2010 3rd Annual Global Laboratory Initiative Meeting,
World Health Organization Veyrier-du-Lac, France

Frances Pouch Downes, Dr.P.H.

International Experience (continued)

- 2009 Global Laboratory Directory Consultancy, World Health Organization Geneva, Switzerland
- 2009 CDC Field Epidemiology and Laboratory Training Program Assessment Team, Dhaka, Bangladesh
- 2007-2011 Twinning Team, Mozambique-Michigan-LA County Public Health Laboratories. Coordinate and provide technical training in viral culture and quality assurance. World Health Organization and APHL
- 2001-2005 Team Leader, APHL Botswana Global AIDS Laboratory Project. Coordinated and provided assessment, training and technical consultation with CDC, Ministry of Health and APHL members
- 1996-1998 Advisor, Jamaica National Public Health Laboratory, sponsored by the APHL/Pan American Health Association Laboratory Linkages Program
- 1992-95 Management and Technical Consultant to World Bank, United States Agency for International Development (AIDSCAP), Peace Corps, Family Health International
Niamey, Niger
- 1993 Technical Consultant
AIDSCAP, Bujumbura, Burundi
- 1987 Technical Consultant, Researcher
International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh
- 1980-83 Peace Corps Volunteer (Medical Technologist)
Hôpital de Zinder, Zinder, Niger

Fluent in French, working knowledge of Hausa

Frances Pouch Downes, Dr.P.H.

Certifications

High-Complexity Clinical Laboratory Director, American Board of Bioanalysis

Medical Technologist, American Society of Clinical Pathologists

Professional Societies and Activities

Association of Public Health Laboratories

Lifetime Achievement Award, 2016

Past President (2009-10 and 2011-12)

President (2008-09)

President Elect (2006-2007)

Board of Directors, Member at Large (2004-2006)

Annual Meeting Program Chair (2007), Leadership (2000-04),

By-Laws Chair (2004), Nominations (2003, 09, 10, 11), Food

Safety Committees (2003-2005), TB Steering Committee (2011),

Global Health Committee (2013-present) Chair (2018-present)

International Conference for Emerging Infectious Diseases 2012

Scientific Program Committee APHL Representative

National Public Health Leadership Training Institute, Year 14

Scholar

American Society for Microbiology

MicroLibrary Clinical Laboratory Liaison (2013-present)

Editorial Board, *Journal of Clinical Microbiology*

(1999-2004)

Emerging Infectious Diseases Post-Doctoral Selection

Committee (2003-2006)

American Society of Clinical Pathology

American Public Health Association

Co-Editor, *Compendium of Methods for the Microbiological Examination of Foods, 4th Edition*

Editorial Committee, Communicable Diseases of Man

Laboratory Edition (in development)

Michigan Public Health Association

Board of Directors (1995-97)

Michigan Infectious Diseases Society

South Central Association for Clinical Microbiology

Consultations

2012 Participant in symposium *sustaining Public Health Capacity in an Age of Austerity*. Forum on Microbial Threats, Institute of Medicine.

2010 Special Immunization Program for Laboratory Personnel Engaged in Research on Countermeasures for Select Agents, National Research Council, National Academy of Sciences

Frances Pouch Downes, Dr.P.H.

- 2008 Centers for Disease Control and Prevention. Division of Laboratory Systems Peer Program Review
- 2007 Centers for Disease Control and Prevention. TB Drug Susceptibility Testing Peer Advisor
- 2006 University of Maryland. Food Safety Information Infrastructure Project
- 2006 Michigan Health Information Network Clinical Workgroup
- 2006 Institute of Medicine. Forum on Microbial Threats
- 2002 Presidential Advisory Council on HIV/AIDS
- 2002 Centers for Disease Control and Prevention. Implementing Rapid HIV Testing in the United States
- 2001 World Health Organization. Developing Laboratory Support for Antiretroviral Therapy in Africa
- 1998 Michigan State University National Food Safety and Toxicology Center. Comparative Risk in Food Safety

Publications

Downes, FP and B Wilcke. SARS, MERS and Human Coronavirus Infections chapter in *Communicable Disease of Man: Laboratory Practice*. Wilcke and Heymann (eds). 2020. American Public Health Association. Washington, DC

Editorial Board. *Communicable Disease of Man: Laboratory Practice*. Wilcke and Heymann (eds). 2019. American Public Health Association. Washington, DC

Downes, FP. Communicable Disease Laboratory Methods chapter in *Communicable Disease of Man: Laboratory Practice*. Wilcke and Heymann (eds). 2019. American Public Health Association. Washington, DC

Schimdt, DS and FP Downes. Herpesvirus Disease in *Communicable Disease of Man: Laboratory Practice*. Wilcke and Heymann (eds). 2019. American Public Health Association. Washington, DC

Carlson, BF, JP Montgomery, X Wang, AL Wagner, Y Zhang, FP Downes, ML Boulton. 2016. Dried Blood Spots: An evaluation of utility in the field. *Annals of Global Health*. 82(3):450

Frances Pouch Downes, Dr.P.H.

Langbo, C, J. Bach, M. Klein, and F.P. Downes. 2013. From Newborn screening to population health research: implementation of the Michigan BioTrust for Health. Public Health Rep. 128(5) 377-84.

Downes, F.P. Discussion Paper: Public Health Laboratories in an Age of Austerity. Forum on Microbial Threats. Institute of Medicine. National Academies of Science. Washington, DC

Dobrowolski, S.F, H.T Pham, F.P. Downes, T.W. Prior, E.W. Naylor, and K.J. Swoboda, 2012. Newborn Screening for spinal muscular atrophy by calibrated short-amplicon melt profiling. Clin Chem 58(6)1033.

Downes F.P. and J. Ridderhof. Guest Editorial: The evolving public health laboratory system. 2010. Public Health Reports;125(Suppl 2):1-3.

Boehme MS, Somsel PA, Downes FP. Systematic review of antibiograms: a national laboratory system approach for improving antimicrobial susceptibility testing practices in Michigan. Public Health Rep 2010;125(Suppl 2):63-72.

Cho, S., T. Whittam, D. Boxrud, J. Bartkus, S Rankin, M. Wilkins, P. Somsel, F. Downes, K. Musser, T. Root, L. Warnick, M. Weidmann, M. Saeed. 2009. Use of multiple-Locus variable tandem repeat analysis and phage typing for subtyping *Salmonella* Enteritidis from sporadic human cases in the United States. J. Applied Micro. doi 10.1111/j.1365-2672.2009.04492x.

Pal, S. W. Ying, E.C. Alocilja and F.P. Downes. 2008. Sensitivity and specificity performance of a direct-charge transfer biosensor for detecting *Bacillus cereus* in selected food matrices. Biosystems Engineering. 99:461-468.

Pal, S., E.C. Alocija and F.P. Downes. 2008. Nanowire labeled direct-charge transfer biosensor for detecting *Bacillus* species. Biosensors and Bioelectronics 22(9-10).

Arshad, M. M.J. Wilkins, F.P. Downes, M. H. Rahbar, R.J. Erskine, M.L. Boulton, M. Younus and A.M. Saeed. 2008. Epidemiological attributes of invasive non-typhoidal *Salmonella* infections in Michigan, 1995-2000. Internat J Infect Dis 12(2)

Arshad, M. M.J. Wilkins, F.P. Downes, M. H. Rahbar, R.J. Erskine, M.L. Boulton, A.M. Saeed. 2007. A registry-based study on the association between human salmonellosis and routinely collected parameters in Michigan, 1995-2001. Foodborne Path Dis. 4(1)16-25.

Frances Pouch Downes, Dr.P.H.

Publications (continued)

Downes, F. 2007. Improving infectious disease surveillance and detection: Public health laboratory perspective. *In*. Global infectious disease surveillance and detection. Workshop Summary. Institute of Medicine of the National Academies. Washington, DC

Inhorn, S.L., B.W. Wilke, F.P. Downes, O.O. Adjanor, R. Cada, and J.R. Ford. 2006. A comprehensive laboratory services survey of state public health laboratories. *J. Public Health Management and Practice*. 12(6) 514-521.

Sejvar, J.J., D. Johnson, T. Popovic, J.M. Miller, F. Downes, P. Somsel, R. Weyant, D.S. Stephens, B.A. Perkins, and N.E. Rosenstein. 2005. Assessing the risk of laboratory-acquired meningococcal infections. *J. Clin. Microbiol.* 43(9)4811-4814.

National Advisory Committee on Microbiological Criteria for Foods. 2005. Considerations for establishing safety-based consume-by date labels for refrigerated ready-to-eat foods. *J. Food Protection*. 68(8)1761-75.

Downes, F.P. and J. Rudrik. 2005. Laboratory Response Network: Critical Screening and Identification System. *In*. Community Preparedness and Response to Bioterrorism. G.R. Ledlow, J.A. Johnson and W.J. Jones (eds.) Prager Perspectives, West Port, Conn.

Kapoor, H., K. Signs, P. Somsel, F.P. Downes, P.A. Clark and J.P. Massey. 2004. Persistence of West Nile Virus (WNV) IgM antibodies in Cerebrospinal Fluid from patients with CNS disease. *Journal of Virology*. Vol. 31/4 pp. 289-291.

K. Sato, P.C. Bartlett, J.B. Kaneene, and F.P. Downes. 2004. Comparison of prevalence and antimicrobial susceptibilities of *Campylobacter* spp. Isolates from organic and conventional dairy herds in Wisconsin. *Appl. Environ. Microbiol.* 70(3): 1442-1447.

Witt-Kushner, J., Downes F. et al. 2002. Core functions and capabilities of state public health laboratories. *MMWR*. 51(RR):1-8.

Ognjan, A., Downes F. et al. 2002. Possible West Nile virus transmission to an infant through breast-feeding- Michigan 2002. *MMWR* 51(39): 877-878.

Sato, K., P. Bartlett, J. Kaneene, B. Robinson-Dunn, F.P. Downes and R. Erskine. 2002. Milk production and mastitis on midwestern organic farms. *J. Food Prot.* 22(3): 178-183.

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Publications (continued)

Downes, F.P. and K. Ito (eds). 2001. *Compendium of Methods for the Microbiological Examination of Foods, 4th Edition*. American Public Health Association, Washington, DC.

Como-Sabetti, K., Downes F. et al. Outbreaks of *Escherichia coli* O157:H7 infection associated with eating alfalfa sprouts- Michigan and Virginia, June-July, 1997. MMWR. 46(32)741-42

Kumar, A., S. Dietrich, W. Schneider, R. Jacobson, F. Pouch Downes, B.E. Robinson-Dunn, R. Honicky, J. Smith and R. Martin. 1997. Genetic relatedness of *Burkholdia (Pseudomonas) cepacia* isolates from five cystic fibrosis centers in Michigan. Respiratory Med. 91:485-92.

Johnson, D.R., R.A. Fisher, J.J. Helwick, M.J. Patterson and F.P. Downes. 1994. Screening Maternal serum alpha-fetoprotein levels and human parvovirus antibodies. Prenatal Diagnosis. 14(6):455-8.

Johnson, D.R., M.A. Love-Dixon, W.J. Brown, D.P. Levine, F.P. Downes and W.N. Hall. 1992. Delayed detection of an increase in resistant *Acinetobacter* at a Detroit hospital. Infection Control and Hosp. Epidemiol. 13(7):394-8.

Francis, B.J., F.P. Downes et al. 1991. A multi-state outbreak of *Salmonella poona* infection- United States and Canada. MMWR. 40(32):549-51.

Wells, J.R., L.D. Shipman, K.D. Greene, E.G. Sowers, J.H. Greene, D.N. Cameron, F.P. Downes, P.M. Griffin, S.M. Osteroff, M.E. Potter, R.T. Taux and I.K. Wachsmuth. 1991. Isolation of *Escherichia coli* O157:H7 and other shiga-like-toxin-producing *E. coli* from dairy cattle. J. Clin. Microbiol. 29:985-9.

Lee, L.A., S.M. Osteroff, H.B. McGee, F.P. Downes, D.N. Cameron and P. Griffin. 1991. An outbreak of shigellosis at an outdoor women's festival. Am. J. Epidemiol. 133(6):608-15.

Downes, F.P., J.H. Green, K. Greene, N.A. Strockbine, J.G. Wells, and I.K. Wachsmuth. 1988. Development and evaluation of enzyme-linked immunosorbent assays for detection of shiga-like toxin I and shiga-like toxin II. J. Clin. Microbiol. 27:1292-1297.

Downes, F.P., T.J. Barrett, J.H. Green, C.H. Aloisio, J.S. Spika, and I.K. Wachsmuth. 1988. Affinity purification of shiga-like toxin II and production of toxin-specific monoclonal antibodies. Inf. Immun. 56:1926-1933.

Frances Pouch Downes, Dr.P.H.

Publications (continued)

Wachsmuth, I.K. and F.P. Downes. 1988. Verotoxin assays. *In* World Health Organization Enteric Bacteriology Manual.

Bopp, C.A., K.D. Green, F.P. Downes and I.K. Wachsmuth. 1987. Unusual verotoxin-producing *Escherichia coli* associated with hemorrhagic colitis. *J. Clin. Microbiol.* 25:1486-9.

Presentations

Verification and Validation. COVID 19 Diagnostic and Testing. FIND online course.

<https://www.futurelearn.com/courses/covid-19-diagnostics-and-testing>

Verification and Validation. COVID-19 Laboratory Testing Training Course. Ministry of Health Indonesia and Association of Public Health Laboratories. 2020.

TedEX MSU. 2016. *20% of the World Suffers from Diseases You've Never Heard Of.* <https://www.youtube.com/watch?v=jDfeDOWiw3g>

A Workshop to improve teaching laboratory competencies. 2015. Association of Public Health General Meeting, Indianapolis, IN
Michigan's Perspective on Chemical Emergency Response. 2009. National Center for Environmental Health Conference. Atlanta, GA

Alocilja, E.C., Downes, F. Kapur, V. 2005. Biosensors for food protection and defense. Annual Meeting of the National Food Protection and Defense, November 1-2, 2005, Atlanta, Georgia.

Alocilja, E.C. and Downes, F. 2005. Nano-wire enabled biosensor for biosecurity. Paper presented at the DHS sponsored conference on "Working Together: Research and Development Partnerships in Homeland Security," April 27-28, 2005, Boston.

Hsu, S., L. Guskey, F. Downes and R. Martin. 1998. Infection of rabies virus in the mouse neuroblastoma cells. *In*. Abstracts of the 98th General Meeting of the American Society for Microbiology, Washington, DC.

Breuer, T., R. Shapiro, W. Hall, J. Neiman, T.J. Barrett, S. Dietrich, F. Downes, L. Slutsker and P.M. Griffin. *Escherichia coli* O157:H7 first linked to consumption of alfalfa sprouts. 1998. *In*. Abstracts of International Conference on Emerging Infectious Diseases.

Martin, R., S. Inhorn, N. Majid and F.P. Downes. 1998. Establishment

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of Public Health Laboratory Linkages between the U.S. and Latin American/Caribbean Nations. *In.* Abstracts of International Conference on Emerging Infectious Diseases and presented at the Michigan Infectious Disease Society Spring Meeting.

Stephens, D., B. Robeson, K. Haveman, L. Guskey and F. Downes. 1998. Substitution and validation of diluent during testing of oral fluid by Organon Teknika Enzyme Immunoassay. *In.* Abstracts of 13th Annual Conference on Human Retrovirus Testing. ASTPHLD.

Mosher, L.B., S.S. Michalik, and F.P. Downes. 1997. Biotinylated RNA probes using colorimetric detection method for identification of *Escherichia coli* shiga-toxin 1 and shiga-toxin 2 genes. *In.* Abstracts of the 97th General Meeting of the American Society for Microbiology, Washington, DC.

Dietrich, S., J. Altamarino, F.P. Downes and R. Martin. 1994. Molecular epidemiology of a multi-state outbreak of *Salmonella poona*. *In.* Abstracts of the 94th General Meeting of The American Society for Microbiology, Washington, DC.

Presentations (continued)

Dietrich, S., F.P. Downes, and R. Martin. 1994. Molecular epidemiology of a multi-state outbreak of *Salmonella braenderup*. *In.* Abstracts of the 94th General Meeting of the American Society for Microbiology, Washington, DC.

Massey, J., F. Downes, D. Johnson, R. Martin, E. Gath, C. Booth, M. Shaw and H. Massab. 1993. Genetic variability in the HIV-1 principle neutralizing domain from North American and African isolates. *In.* Abstracts of the 93rd General Meeting of the American Society for Microbiology, Washington, DC.

Massey, J., F. Downes, D. Johnson, R. Martin, E. Gath, C. Booth, M. Shaw and H. Massab. 1993. Sequential analysis of the V3 loop in HIV-1 from a pediatric population. *In.* Abstracts of the 93rd General Meeting of the American Society for Microbiology, Washington, DC.

Dietrich, S. S. Bennett, W. Hall, S. Church, B. Robinson-Dunn and F.P. Downes. 1993. Molecular characterization of *Mycobacterium xenopi* by pulsed field gel electrophoresis. *In.* Abstracts of the 93rd General Meeting of the American Society for Microbiology, Washington, DC.

Hassane, A., R. Paradise, A. Mounkaila, E. VanDyck, M. Kamenga, G. Habi and F. Downes. 1993. Rapid estimation of STD/HIV prevalence in Niamey, Niger. *In.* Abstracts of the 8th International Conference

Frances Pouch Downes, Dr.P.H.

on HIV in Africa and 8th African STD Conference, Casablanca, Morocco.

Soga, G., A. Hassane, A. Aboubacar, E. VanDyck, F. Downes and G. Habi. 1993. Prevalence study of sexually transmitted infections among prostitutes in Niamey, Niger. *In*. Abstracts of the 8th International Conference on HIV in Africa and the 8th African STD Conference, Casablanca, Morocco.

Downes, F.P., P. Clark, R. Nowak and B. Berlin. 1992. Evaluation of dried blood spot specimens for measles antibody determination in outbreak control. *In*. Abstracts of the 92nd General Meeting of the American Society of Microbiology, Washington, D.C.

Downes, F.P. and L.E. Guskey. 1992. Evaluation of two commercial assays for human immunodeficiency virus-1 antibodies in dried blood spots. Seventh Annual Conference for Retrovirus Testing. Association of State and Territorial Public Health Laboratory Directors.

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Presentations (continued)

Massey, J., F. Downes, R. Martin, D. Johnson and E. Gath. 1992. Comparison of HIV-1 serological and polymerase chain reaction results from infants born to seropositive mothers. Seventh Annual Conference for Retrovirus Testing. Association of State and Territorial Public Health Laboratory Directors.

Massey, J., F. Downes, R. Martin and D. Havlocheck. 1992. Analysis of genetic variability of HIV-1 by restriction analysis of amplified proviral DNA. Seventh Annual Conference for Retrovirus Testing. Association of State and Territorial Public Health Laboratory Directors.

Havlocheck, D., K. McWilliams, J. Massey, S. Dietrich, F. Downes, R. Martin and S. Adkins. 1991. HIV-1 detection in hemophiliac men and their partners by serology and polymerase chain reaction. *In*. Abstracts of the Interscience Conference on Antimicrobial Agents and Chemotherapy, American Society for Microbiology, Washington, D.C.

Downes, F.P., W. Schneider, S. Dietrich, D. Johnson and H. McGee. 1991. Laboratory investigation of two *Citrobacter diversus* neonatal meningitis outbreaks in Michigan. *In*. Abstracts of the 91st General Meeting of the American Society for Microbiology, Washington, D.C.

Martin R., F. Downes, W. Schneider, H. England, G. Stoltman and B. Robinson. 1991. Comparison of Gen-Probe, Gonozyne and culture for diagnosis of gonorrhea in a high risk population. *In*. Abstracts of the 91st General Meeting of the American Society for Microbiology, Washington, D.C.

Downes, F.P., S. Coopes, K. MacMaster, M. Richardson and B.E. Robinson. 1991. An evaluation of an alternative identification test for *Shigella* and *Salmonella*. *In*. Abstracts of the 91st General Meeting of the American Society for Microbiology, Washington, D.C.

Robinson, B.E., F.P. Downes, D. Pung, A. Davis, and J. Kloss. 1989. Comparative study of four commercially available systems for rapid identification of *Neisseria gonorrhoeae*. *In*. Abstracts of the Annual Meeting of the American Society for Microbiology, Washington, D.C.

Martin, R., W.A. Schneider, P. Chen and F.P. Downes. 1989. Molecular epidemiology of *Escherichia coli* O157:H7 in Michigan, 1982-1988. Michigan Infectious Disease Society Annual Meeting.

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Presentations (continued)

Johnson, D.R., H.B. McGee, R.A. Gunn, F.P. Downes, S. Hsu and W.N. Hall. 1989. *Shigella* goes to the beach in Michigan. Michigan Infectious Disease Spring Meeting (also presented at the Epidemiology Intelligence Service Conference, 1989, Centers for Disease Control, Atlanta, Georgia).

Downes, F., J. Green, N. Strockbine, E. Sowers and K. Wachsmuth. 1987. Vero toxin characterization using a newly developed VT1 ELISA and HeLa cell neutralization. *In*. Abstracts of the Annual Meeting, 1987. American Society for Microbiology, Washington, DC.

Spika, J.S., L.W. Mayer and F.P. Downes. 1987. Identification of the gene of an antigenically distinct Vero cell cytotoxin from an *Escherichia coli* O157:H7 phage. *In*. Abstracts of the Annual Meeting of the American Society for Microbiology, Washington, DC.

Downes, F.P., J.H. Green, T.J. Barrett, N.A. Strockbine and I.K. Wachsmuth. 1987. Purification and characterization of Vero (Shiga-like) toxin 2. *In*. Abstracts of An International Symposium and Workshop on Verocytotoxin- (Shiga-like toxin) producing *Escherichia coli* (VTEC) Infections, Toronto, Canada.

Wells, J.G., L.D. Shipman, K.D. Greene, F.P. Downes, R.V. Tauxe and I.K. Wachsmuth. 1987. Isolation of *Escherichia coli* O157:H7 and other Shiga-like/Verotoxin- producing *Escherichia coli* from dairy cattle. *In*. Abstracts of An International Symposium and Workshop on Verocytotoxin-(Shiga-like toxin) producing *Escherichia coli* (VTEC) Infections, Toronto, Canada.

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Invited Presentations

- 2018 The Human Microbiome and Health. ASCLS Michigan, Plymouth, MI
- 2017 One Health, ASCLS Michigan, Kalamazoo, MI
- 2016 Emerging Infections Update, ASCLS Michigan. East Lansing, MI.
- 2013 Michigan BioTrust for Health. Legal and Public Health Perspectives Surrounding Residual Dried Blood Spots and Newborn Screening. Association of Public Health Laboratories and Centers for Disease Control and Prevention. Atlanta, GA
- 2013 Advanced Technology for the Microbiology Laboratory. ASCLS Michigan, East Lansing, MI
- 2012 The Role of the Laboratory and Workforce Development. Sustaining Public Health Capacity in an Age of Austerity Workshop. Forum on Microbial Threats. Institute of Medicine. Washington, DC
- 2011 The Michigan BioTrust for Health: Experiences and Lessons Learned. Association of Public Health Laboratories Annual Meeting. Omaha, NE
- 2011 Building and Sustaining Partnerships between US and International Laboratories: Twinning and Cross-Border Relationships. Association of Public Health Laboratories Annual Meeting. Omaha, NE
- 2010 Harmonizing the Voices that Influence Public Health Policy. Symposium: Politics and Pathogens: Exploring the Interaction of Science and the State. American Society for Microbiology. 110th General Meeting San Diego, CA
- 2009 H1N1 Update. William Beaumont Molecular Pathology Symposium. Royal Oak, MI
- 2009 International Laboratory Twinning Initiatives: Mozambique and Michigan. Association of Public Health Laboratories Annual Meeting. Anchorage, AK.
- 2008 Michigan Laboratory Response Network. Great Lakes Research Consortium (NIH sponsored bioterrorism research network). Hilton Head, SC.

Frances Pouch Downes, Dr.P.H.

2007 Michigan Public Health Preparedness Laboratory System.
Wayne State University, Department of Microbiology Seminar
Series, Detroit, MI

Frances Pouch Downes, Dr.P.H.

Invited Presentations (continued)

- 2006 Realizing the Research Potential of Newborn Screening Dried Blood Spots. 2nd Annual Nutrigenomics Symposium. Michigan State University, Dept. of Radiology. East Lansing, MI

- 2004 Public Health Laboratories: Working to Improve Health in Botswana, Association of Public Health Laboratories Annual Meeting, St. Paul, MN

- 2004 Building Tomorrow's Laboratory Workforce, CDC-AMA First National Congress on Public Health Awareness, Washington, DC

- 2003 Genetics and Michigan Law: Responding to the Present and Preparing for the Future. Wolverine Caucus presentation to the Michigan Legislature.

- 2003 Genomics and the Public Health Laboratory. Association of Public Health Laboratories Annual Meeting, Richmond, VA

- 2001 Chemical Terrorism Laboratory Response. Association of Public Health Laboratories Annual Meeting. Portland, OR

- 2001 National Laboratory System Demonstration Project. Association of Public Health Laboratories Annual Meeting. Portland, OR

- 2000 Hepatitis C: Epidemiology, Challenges, Strategies. Michigan Society for Clinical Laboratory Sciences. Romulus, MI

- 1999 Foodborne Disease Issues: State Laboratory Perspective. American Public Health Association Annual Meeting. Chicago, IL.

- 1999 Hepatitis C: Epidemiology and Diagnosis. Statewide HIV/AIDS-STD Conference. Sponsored by MDCH.

- 1999 Foodborne Illnesses: Technology Development and Epidemiology. Michigan Branch of the American Society of the American Society for Microbiology. Ypsilanti, MI.

- 1998 Regional Laboratory Food Testing, Focus on Food Safety, Michigan Environmental Health Association. Big Rapids, MI.

Frances Pouch Downes, Dr.P.H.

Invited Presentations (continued)

- 1998 Infectious Diseases and the Media. Panel Moderator.
Michigan Infectious Diseases Society Public Health
Forum. Ann Arbor, MI
- 1998 Epidemiology Breakout Session Moderator. Comparative Risk
in Food Safety: Future Direction for Risk Analysis,
National Food Safety and Toxicology Center at Michigan
State University. East Lansing, MI.
- 1998 The Role of the Public Health Laboratory in Vaccine
Preventable Disease Programs. Centers for Disease
Control and Prevention Regional VPD Conference.
Dearborn, MI.
- 1998 Viral Load Testing. Michigan Society for Clinical
Laboratory Science Annual Conference. East Lansing, MI
- 1997 Changing Roles for Public Health Laboratories: Managed
Care and Public Health Laboratories. American Public
Health Association Annual Meeting. Indianapolis, IN
- 1997 Update on HIV and STD testing. Michigan HIV/STD Counselor
Annual Meeting
- 1997 Emerging Viral Diseases. Michigan State Society of
American Medical Technologists Workshop. Frankenmuth,
MI
- 1997 Foodborne Disease Testing in Michigan. Michigan Infectious
Disease Society Public Health Forum. Ann Arbor, MI
- 1997 Partners for the Future: Exploring the Roles of Public
Health Laboratories. Michigan Facilitator for the
tele-conference series sponsored by the Centers for
Disease Control and Prevention and the Association of
State and Territorial Public Health Laboratory
Directors.
- 1997 The Epidemiology of Lyme Disease in Michigan. South Central
Association of Clinical Microbiologists, Fall Meeting
- 1996 Laboratory Update: HIV, Tb and STDs. Michigan HIV/STD
Counselor Annual Meeting.
- 1996 Managed Care and Public Health Laboratories. Association
for State and Territorial Public Health Laboratory
Directors Annual Planning Conference

Frances Pouch Downes, Dr.P.H.

Invited Presentations (continued)

- 1996 Public Health Laboratory Managed Care Initiative. Changing Health Systems: Managed Care and Medical Laboratories, a symposium presented by the Michigan Department of Community Health, Michigan Public Health Institute and the Michigan State University College of Human Medicine Institute for Managed Care.
- 1995 Epidemiology of *Escherichia coli* O157:H7 in Michigan, American Society for Microbiology, Michigan Branch. Spring Conference
- 1992 The Role of the Public Health Laboratory in Disease Outbreak Investigation. Centers for Disease Control National Laboratory Training Network, Midwestern Area Resource Office Teleconference Series
- 1992 Diarrheagenic *Escherichia coli*: Clinical Relevance and Laboratory Diagnosis. South Central Association for Clinical Microbiology Teleconference Series
- 1991 Serological Diagnosis of Mycoplasmal Infections. South Central Association for Clinical Microbiology Workshop, Lansing, Michigan
- 1990 Viral Infections of the Immunocompromised Host. American Medical Technologists Michigan State Society Annual Meeting, Birch Run, Michigan
- 1990 Polymerase Chain Reaction for Public Health Laboratories. Midwest Training Network Teleconference, sponsored by the Centers for Disease Control.
- 1989 Foodborne Diarrheal Illnesses and *Escherichia coli* Diarrhea. South Central Association of Clinical Microbiology Fall Workshops entitled Identification of Unusual Enteric Pathogens.
- 1988 Enterohemorrhagic *Escherichia coli* Infections. Tri-County Clinical Microbiology Meeting, Southfield, Michigan.
- 1988 The Occurrence and Laboratory Identification of *Giardia lamblia*. Michigan Public Health Association Annual Meeting, Lansing, Michigan.