NAME: **John B. Kaneene**

POSITION TITLE: **University Distinguished Professor of Epidemiology and Public Health and Director, Center for Comparative Epidemiology**

EDUCATION/TRAINING

| INSTITUTION AND LOCATION | DEGREE | Completion Date | FIELD OF STUDY |
| --- | --- | --- | --- |
| University of Khartoum | BS | 1968 | Mathematics |
| University of Khartoum | DVM | 1971 | Veterinary Medicine |
| University of Minnesota | MPH | 1975 | Epidemiology |
| University of Minnesota | PhD | 1978 | Epidemiology |
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**A. Personal Statement**

In the last 40 years, I have conducted epidemiological research and trained 39 PhD students and 27 MS students. My personal research focuses on comparative epidemiological assessments of the exposure of agents (infectious and non- infectious) in animals and humans and understanding the processes leading to various outcomes. I have served as PI, Co-PI, and Co-investigator on national and international projects in the USA, Uganda, Tanzania, Kenya, Sudan, Malawi, Ethiopia, Rwanda, Ghana, S. Africa, India, Thailand, and Brazil. Examples of these projects include:

1. Role: PI

Title: Faculty Exchange Program – Africa Veterinary Medicine

Funded by: United States Department of Agriculture (USDA)

Duration: 2016-2022

1. Role: Co-PI

Title: Spatial and molecular epidemiology of Giardia duodenalis in shelter and client-owned dogs in Nairobi County, Kenya

Funded by: African Small Companion Animal Network (AFSCAN)

Duration: 2017-2021

1. Role: Co-PI

Title: Tanzania Partnership Program (TPP) – Support Research & Development in Animal Health, Education, and Water Safety

Funded by: Jerry & Caren Kolschowsky Foundation

Duration: 2018-2021

1. Role: PI

Title: Borlaug Training Fellowships

Funded by: United States Department of Agriculture – Foreign Agriculture Service (USDA-FAS)

Duration: 2012-2015

1. Role: PI

Title: *Mycobacterium bovis* Survivability in Salt/Minerals Fed to Cattle

Funded by: Michigan Department of Agriculture (MDA)

Duration: 2011-2012

1. Role: PI

Title: Epidemiology of selected food-borne pathogens and their resistance to antibiotics in farming communities in Northern, Thailand

Funded by: NIH – Fogerty International Center

Duration: 2003-2007

My earlier research focused on zoonotic diseases and antimicrobial resistance in livestock, wildlife, and human populations. Recently my focus has been on evaluating companion animals as sentinels for human exposure to non-infectious diseases agents, such as Lead and PFAS. My colleagues and I have evaluated the potential use of companion animals as sentinels for Lead exposure in Flint, Michigan. Currently, we are evaluating the use of companion animals as sentinels for human exposure to PFAS in Michigan. My carrier has been enriched by a network of highly motivated colleagues and graduate students within and outside the US resulting in over 346 publications to date.

**B. Positions, Scientific Appointments, and Honors**

**Positions**

2005-present University Distinguished Professor of Epidemiology & Public Health and Director, Center for Comparative Medicine, College of Veterinary Medication, Michigan State University, East Lansing, Michigan

1990-present Professor of Epidemiology and Director, Center for Comparative Epidemiology, College of Veterinary Medicine, Michigan State University, East Lansing, Michigan

1983 - 1988 Associate Professor, College of Veterinary Medicine and College of Human Medicine, Michigan State University, East Lansing, Michigan

1979 - 1983 Assistant Professor, College of Veterinary Medicine and College of Human Medicine, Michigan State University, East Lansing, Michigan

 1978-1979 Research Assistant Professor of Epidemiology, School of Public Health and Department of Large Animal Clinical Sciences, and Director of Brucellosis Research Program, College of Veterinary Medicine, University of Minnesota, St. Paul, Minnesota

**Honors and Awards**

 **Teaching**

* Teacher of the Year Award (awarded by the MSU Student Chapter of the American

 Veterinary Medical Association):

 1988, by the class of 1990

 1983, by the class of 1985

 1981, by the class of 1983

**Research**

* Charles A. Gliozzo International Award for Public Diplomacy, Michigan State University, 2021
* Ralph Smuckler Award, Michigan State University, 2018
* Distinguished Alumni Research Award, University of Minnesota, 2011
* Distinguished Faculty Award, College of Veterinary Medicine, Michigan State University, 2009
* University Distinguished Professor, Michigan State University, 2005
* Fellow, American Epidemiological Society, 1994
* Sigma Xi Research Society Meritorious Research Award, Michigan State University, 1993
* Distinguished Faculty Award, Michigan State University, 1993
* Beecham Award for Research Excellence, Michigan State University, 1989

**C. Contributions to Science**

**1. Major contributor to research on antimicrobial resistance.**

**2. Major contributor to US-Africa Higher Education.**

1. Khaitsa, M.L., Kabasa, J.D., **Kaneene, J.B.**, Ekirir, A.B., Wakoko, F., Sischo, W., Majalija, S., Tumwine, G., Freeman, D., Card, C., Gitahi, K., Mulei, C., Mdegela, R., Gebrekidan, B., Byuka, M., and Kalema-Zikusoka, G. CIMTRADZ: a US-Africa Higher Education Collaborative Model for Sustainable Capacity Development in Trans- Boundary Diseases and Zoonoses Management in Eastern and Central Africa. *Pan African Med J: Special Issue* 2017;27 (Supp 4): 20 doi:10.11604/pamj.supp.2017.27.4.12210.
2. Wakoko-Studstill, F., Kiguli, J., Wotsuna, K., Khaitsa, M.L., Kabasa, J.D., **Kaneene, J.B.**, Tendo, D., and Ssemadaali, M.A. Gender mainstreaming in Veterinary and Public Health Training: using gender audits to foster capacity building and women’s empowerment in Higher Education. *Pan African Med J: Special Issue* 2017;27 (Supp 4):24 doi:10.11604/pamj.supp. 2017.27.4.12355.
3. **Kaneene, J.B.** and Khaitsa, M.L. Overall conclusions and lessons learned from the Capacity Building in Integrated Management of Transboundary Animal Diseases and Zoonoses Project. *Pan African Med J: Special Issue* 2017;27 (Supp 4):23 doi:10.11604/pamj.supp. 2017.27.4.12535.

**3. Major contributor to research on companion animals as sentinels for exposure to Lead and PFAS.**

1. Langlois, D.K., **Kaneene, J.B.**, Yuzbasiyan-Gurkan, Y., Daniels, B.L., Frank, N.A., and Buchweitz, J.P. Investigation of Blood Lead Concentrations in Dogs Living in Flint, Michigan. *JAVMA* 251(8):912-921, 2017.
2. Brake, HD, Wilkins, MJ, and **Kaneene, JB.** PFAS Research: Unlocking the keys to understanding exposure and adverse health outcomes in humans and companion animals. *Amer. J. Vet. Research* (submitted 2022).
3. Brake, H.D., Langfeldt, A., **Kaneene, J.B.**, and Wilkins, M.J. Current PFAS Research Points to A Growing Threat in Animals. *JAVMA* (submitted, 2022).