

CURRICULUM VITAE

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EDUCATION/TRAINING:

Degrees/Diplomas

1. Master of Science Degree in Infectious Diseases, University of London
2. Diploma of the London School of Hygiene & Tropical Medicine (DLSHTM), The London School of Hygiene and Tropical Medicine
3. Clinical Vaccine Trials Planning and Implementation, The Johns Hopkins Bloomberg School of Public Health (Baltimore)
4. Postgraduate Diploma in “The Control and Management of HIV/AIDS and Sexually Transmitted Infections” University of Nairobi (Kenya)
5. Postgraduate Diploma – Diploma in Tropical Medicine and Public Health, The Swiss Tropical Institute, Basle (Switzerland)
6. Degree of the Bachelor of Medicine and Bachelor of Surgery, University of Nairobi

Postgraduate certificate courses

- 1) Pedagogy, Andragogy and Mentorship Training – University of Nairobi
- 2) Understanding Clinical Research: Behind the Statistics – University of Cape Town & Coursera
- 3) Epidemiology: The Basic Science of Public Health – The University of North Carolina at Chapel Hill & Coursera
- 4) Mentoring in Scientific Writing - University of California San Francisco (UCSF)
- 5) Introduction to Systematic Review and Meta-Analysis - The Johns Hopkins Bloomberg School of Public Health & Coursera
- 6) Research Aspects of HIPAA - University of California San Francisco
- 7) Research Grant Writing –African Population & Health Research Center and Elsevier Publishing Campus
- 8) Basic Health Research Ethics – African Malaria Network Trust (AMANET)
- 9) How to Recognize Plagiarism – Indiana University, Bloomington (2011) and Elsevier Publishing Campus
- 10) Scientific Writing
- 11) Public Speaking and Presentation Skills
- 12) Good Clinical Practice - Basic & Advanced
- 13) Mucosal immunity and Vaccine Design
- 14) CITI course “Protection of Human Research Subjects”
- 15) Good Clinical Laboratory Practice
- 16) Intellectual Property Rights
- 17) Health Innovations in Africa
- 18) Managerial and Supervisory skills training

EMPLOYMENT / WORK EXPERIENCE:

1. University of Nairobi, College of Health Sciences: 2001 to date

Lecturer and Research Physician - Department of Medical Microbiology & KAVI-Institute of Clinical Research

Responsibilities/Roles

Faculty (March 2014 to date)

- a) Teaching, mentorship and supervision in Medical Microbiology - undergraduate and postgraduate students of various medical fields
- b) Board Member - School of Medicine Mentorship Advisory Committee

Clinical Researcher (August 2001 to date)

- c) Principal Investigator, Co-Investigator
- d) Clinical Research Management and Oversight
- e) Development of Research Protocols and Standard Operating Procedures
- f) Research Staff development, mentorship and supervision
- g) Trainer in Bioethics, Clinical Research, and Scientific writing
- h) Development of training curricula
- i) Publishing

2. Global Assessor – The Royal Society of Tropical Medicine and Hygiene (ongoing)

3. Editorial Board Member – East African Journal of Applied Health Monitoring and Evaluation (ongoing)

4. Trainer & Mentor in Scientific Manuscript Writing – University of California San Francisco (UCSF) (ongoing)

5. Program Coordinator and Mentor for University of Nairobi - The Association of Commonwealth Universities Structured Training for African Researchers (2014-2016)

6. Faculty/trainer - Vienna School of Clinical Research (VSCR), Austria (2008-2012)

7. Medical Officer

- Ministry of Health Kenya, Rift Valley Provincial General Hospital
- The Nairobi Hospital
- Upper Hill Medical Center, Nairobi

ACHIEVEMENTS:

a) Principal Investigator (PI):

1. Prevention of HIV transmission by improved management of recurrent vulvovaginal candidiasis: a study on vulvovaginal candidiasis, associated microbiome and vaginal self-sampling for metagenome analysis, at public health facilities in Nairobi City County, Kenya (2018 - ongoing)
2. Prevalence, Causative Fungi, Diagnostic And Treatment Approaches For Vulvovaginal Candidiasis, And Susceptibility Factors For Recurrent Vulvovaginal Candidiasis Among Women With Lower Genital Tract Symptoms In Nairobi City County, Kenya (2017 -ongoing)
3. A Phase I double-blinded, placebo-controlled, randomized trial in HIV-uninfected, healthy adult volunteers to evaluate the safety and immunogenicity of F4co adjuvanted with AS01B or AS01E administered with Ad35-GRIN (2011-2013)
4. Pre-screening of volunteers for potential participation in future clinical trials and observational studies (2009 - on hold)
5. A Prospective, Observational, Multi-Center Study to Evaluate Immunologic Markers of Exposure in HIV-Exposed Seronegative (ESN) Volunteers (2009 – 2018)

b) Co-Investigator/ Sub-Investigator

1. A Phase I double-blind, randomized, placebo-controlled, dose-escalation trial to evaluate the safety and immunogenicity of a Sendai HIV vaccine SeV-G(NP) given intra-nasally and Ad35-GRIN administered intramuscularly in prime-boost regimens in HIV-uninfected, healthy adult volunteers (2013-2015)
2. A Phase 3b, Randomized, Open-label Clinical Study to Demonstrate Non-inferiority in Virologic Response Rates of HIV-1 RNA Suppression <400 Copies/mL of TDF/FTC/RPV Versus TDF/FTC/EFV in First-line Antiretroviral NNRTI-based Suppressed Patients (2013-2015)
3. A cross-sectional study for specimen collection to characterize assays and immune responses in support of HIV vaccine trials (2011-2014)
4. A Prospective, Observational, Multi-Centre Study to Evaluate Vaccine-Induced Mucosal HIV-1-specific Immune Responses in Individuals Concurrently Enrolled in IAVI-Affiliated HIV Preventive Vaccine Trials (2011-2013)
5. A Phase I, Randomized, Placebo-Controlled, Double-Blind Trial to Evaluate the Safety and Immunogenicity of a Multiclade HIV-1 DNA Plasmid Vaccine Followed by Recombinant, Multiclade HIV-1 Adenoviral Vector Vaccine or the Multiclade HIV-1 Adenoviral Vector Vaccine Alone in Healthy Adult Volunteers not infected with HIV (2005-2007)
6. Long Term Follow-up of study participants from IAVI sponsored Clinical trials with HIV candidate vaccines (2007-2014)
7. A Prospective, Observational, Multi-Center Study to Evaluate Clinical, Laboratory, Immunological and Viral Markers of Disease Progression in Recently HIV-Infected Volunteers from IAVI Affiliated Clinical Trials
8. Nutrition and HIV progression
9. A cross-sectional study to screen for and generate broadly neutralizing monoclonal antibodies from HIV infected individuals
10. The Effect of Malaria Episodes on the Progression of CD4 Count in Women with Early HIV Infection in Rural Kenya
11. A Randomized, Placebo-Controlled, Dosage-Escalating Phase 2A Study, Double-Blinded with Respect to Assignment to either Vaccine or Placebo, to Evaluate the Safety and Immunogenicity of a DNA HIV-1 Vaccine Administered Intramuscularly followed by an MVA HIV-1 Vaccine Administered at Three Different Dosage Levels and by Three Different Routes to HIV-Uninfected, Healthy, Volunteers.(2003-2005)
12. HIV Transmission Knowledge and Predictors in Rural Kenya
13. A cross sectional, observational study to establish clinical laboratory reference ranges in adults at multiple sites in Africa (2004)
14. A double-blind, randomized, placebo-controlled phase 1 trial to evaluate the safety and immunogenicity of an HIV clade A plasmid DNA (DNA.HIVA) vaccine delivered intramuscularly in healthy HIV negative volunteers (2001-2002)
15. A double-blind, randomised, placebo-controlled phase 1 trial to evaluate the safety and immunogenicity of a candidate HIV-1 clade A MVA-based vaccine delivered intra-dermally in healthy HIV negative volunteers (2002-2005)
16. An open label phase I trial to evaluate the safety and immunogenicity of a candidate HIV-1 clade A MVA-based vaccine, MVA.HIVA, delivered intra-dermally in healthy HIV negative adult volunteers previously vaccinated (primed) with pTHr.HIVA vaccine (protocol KAVI-ICR-I-DIM) (2003-2004)

c) Other achievements

1. Session Chair (The Status of HIV Research: Vaccines or Cure) – Maisha HIV and AIDS Conference, Nairobi; 2019

2. Project team member: Strengthening Research Ethics Review and Oversight in Kenya (STReK) grant by the European and Developing Countries Clinical Trials Partnership (EDCTP)
3. Session Chair - HIV Research for Prevention (R4P) Conference, Cape Town SA; October 2014

d) PUBLICATIONS

<https://scholar.google.com/citations?user=aGlr7lQAAAAJ&hl=en>

1. Clara A. Agutu, Caroline J. Ngetsu, Matt A. Price, Tobias Rinke de Wit, **Gloria Omosa-Manyonyi**, Eduard J. Sanders, Susan M. Graham. Systematic review of the performance and clinical utility of point of care HIV-1 RNA testing for diagnosis and care. PLoS – In press
2. Nyasani DK, Mutua GN, Sajabi RM, Ng'ang'a JW, Gachie JN, Maina AM, Lunani LL, Anzala AO, Price MA, & **Manyonyi GO**. *Reported willingness to participate in a hypothetical HIV vaccine trial and its translation to actual participation among healthy adults-Experience from Kenya*. PLoS One, 2018. **13**(11): p. e0206656
3. Lunani, L.L., A. Abaasa, and **G. Omosa-Manyonyi**, *Prevalence and Factors Associated with Contraceptive Use Among Kenyan Women Aged 15-49 Years*. AIDS Behav, 2018. **22**(Suppl 1): p. 125-130.
4. Irene Podolak, Caroline Kisia, **Gloria Omosa-Manyonyi**, and Jarold Cosby. *Using a multimethod approach to develop implementation strategies for a cervical self-sampling program in Kenya*. BMC Health Serv Res, 2017. **17**(1): p. 222.
5. Julien Nyombayire, Omu Anzala, Brian Gazzard, Etienne Karita, Philip Bergin, Peter Hayes, Jakub Kopycinski, **Gloria Omosa-Manyonyi**, Akil Jackson, Jean Bizimana, Bashir Farah, Eddy Sayeed, Christopher Parks, Makoto Inoue, Takashi Hironaka, Hiroto Hara, Tsugumine Shu, Tetsuro Matano, Len Dally, Burc Barin, Harriet Park, Jill Gilmour, Angela Lombardo, Jean-Louis Excler, Patricia Fast, Dagna Laufer, Josephine Cox, and the S001 Study Team. First-in-Human Evaluation of the Safety and Immunogenicity of a Replicating Intranasally Administered Sendai HIV-1 Gag Vaccine: Induction of Potent T-cell or Antibody Responses in Prime-Boost Regimens. J Infect Dis. 2017 Jan 1;215(1):95-104. doi: 10.1093/infdis/jiw500
6. Elizabeth Wahome, Caroline Ngetsu, John Mwambi, Huub C Gelderblom, **Gloria Omosa Manyonyi**, Murugi Micheni, Amin Hassan, Matt A. Price, Susan M. Graham, Eduard J. Sanders. Hepatitis B virus incidence and risk factors among HIV-1 negative MSM in Kenya. Open Forum Infectious Diseases, December 2016 DOI: 10.1093/ofid/ofw253
7. Bergin, Phil PhD; Langat, Robert BSc; **Omosa-Manyonyi, Gloria MD**; Farah, Bashir BSc; Ouattara, Gina MD; Park, Harriet MPH; Coutinho, Helen BSc; Laufer, Dagna MD; Fast, Pat MD; Verlinde, Carl MSc; Bizimana, Jean MSc; Umvilighozo, Gisele MSc; Nyombayire, Julien MD; Ingabire, Rosine MD; Kuldane, Kristin BSc; Cox, Josephine PhD; McMorrow, Martin MBA; Fidler, Sarah MBBS/PhD; Karita, Etienne MD; Gilmour, Jill PhD; Anzala, Omu MD. Assessment of anti-HIV-1 antibodies in Oral and Nasal Compartments of Volunteers from Three different Populations. JAIDS Journal of Acquired Immune Deficiency Syndromes: (2016) doi:10.1097/QAI.0000000000001094
8. Mayanja Y, Mukose AD, Nakubulwa S, **Omosa-Manyonyi G**, Kamali A, Guwatudde D (2016) Acceptance of Treatment of Sexually Transmitted Infections for Stable Sexual Partners by Female Sex Workers in Kampala, Uganda. PLoS ONE 11(5): e0155383. doi:10.1371/journal.pone.0155383
9. **Omosa-Manyonyi, G.**, J. Mpendo, E. Ruzagira, W. Kilembe, E. Chomba, F. Roman, P. Bourguignon, M. Koutsoukos, A. Collard, G. Voss, D. Laufer, G. Stevens, P. Hayes, L. Clark, E. Cormier, L. Dally, B. Barin, J. Ackland, K. Syvertsen, D. Zachariah, K. Anas, E. Sayeed, A. Lombardo, J. Gilmour, J. Cox, P. Fast and F. Priddy. "A Phase I Double Blind, Placebo-

Controlled, Randomized Study of the Safety and Immunogenicity of an Adjuvanted Hiv-1 Gag-Pol-Nef Fusion Protein and Adenovirus 35 Gag-Rt-Int-Nef Vaccine in Healthy Hiv-Uninfected African Adults." *PLoS One* 10, no. 5 (2015): e0125954.

10. **Manyonyi, G.**, Jaoko, W., Bhatt, K., Langat, S., Mutua, G., Farah, B., Nyange, J., Olenja, J., Oyugi, J., Wakasiaka, S., Khaniri, M., Fowke, K., Kaul, R., & Anzala, O. (2014). Enhancing capacity of research ethics review committees in developing countries: The Kenyan example. *South African Journal Of Bioethics And Law*, 7(2), 59-63. doi:10.7196/sajbl.308
11. **Omosa-Manyonyi, G.**, H. Park, G. Mutua, B. Farah, P. J. Bergin, D. Laufer, J. Lehrman, K. Chinyenze, B. Barin, P. Fast, J. Gilmour and O. Anzala. "Acceptability and Feasibility of Repeated Mucosal Specimen Collection in Clinical Trial Participants in Kenya." *PLoS One* 9, no. 10 (2014): e110228.
12. **Omosa-Manyonyi, G.**, R. Langat, E. Mutisya, H. Park, P. Bergin, B. Farah, H. Ogutu, S. Ogola, G. Ouattara, J. Indangasi, R. Ndambuki, P. Fast, D. Laufer, F. Priddy and O. Anzala. "Implementation of a Training Program to Standardize Mucosal Sample Collection and Processing at Multiple Laboratories in Eastern Africa." *AIDS Res Hum Retroviruses* 30 Suppl 1, (2014): A236-7.
13. Hayes, P., N. Fernandez, **G. Omosa-Manyonyi**, J. Mpendo, E. Karita, E. Ruzagira, W. Kilembe, G. Mutua, O. Anzala, F. Roman, P. Bourguignon, B. Barin, J. Eldridge, M. Egan, D. Hannaman, C. Schmidt, P. Fast, F. Priddy, J. Cox and J. Gilmour. "Assessment of Viral Inhibition Activity in Low Seroprevalent Adenovirus-35 Vectored Hiv Vaccines+/- Adjuvanted Protein or Electroporated DNA." *AIDS Res Hum Retroviruses* 30 Suppl 1, (2014): A188.
14. Karita, E., O. Anzala, B. Gazzard, P. Bergin, J. Nyombayire, **G. Omosa**, A. Jackson, R. Ingabire, G. Ouattara, H. Park, A. Gumbe, K. Chinyenze, S. Welsh, C. Verlinde, L. Clark, P. Chetty, M. Booley, J. Bizimana, B. Farah, P. Hayes, D. Zachariah, K. Syvertsen, M. F. Lim, L. Dally, B. Barin, M. Inoue, H. Hara, T. Hironaka, T. Shu, M. Hasegawa, T. Matano, E. Sayeed, C. Parks, J. Ackland, P. M. Fast, J. Gilmour, J. H. Cox, A. Lombardo and D. Laufer. "Clinical Safety and Immunogenicity of Two Hiv Vaccines Sev-G (Np) and Ad35-Grin in Hiv-Uninfected, Healthy Adult Volunteers." *AIDS Res Hum Retroviruses* 30 Suppl 1, (2014): A85.
15. Mutua, G., L. Mutengu, J. Mpendo, W. Kilembe, **G. Omosa-Manyonyi**, E. Ruzagira, E. Karita, L. Page-Shipp, G. Gray, L. G. Bekker, B. Barin, D. Laufer, C. Schmidt and F. Priddy. "Major Negative Social Impacts Are Rare in Phase I Hiv Vaccine Trials in Africa." *AIDS Res Hum Retroviruses* 30 Suppl 1, (2014): A190-1
16. Bayingana, R., G. Mutua, J. Mpendo, W. Kilembe, **G. Omosa-Manyonyi**, E. Ruzagirwa, L. Page-Shipp, G. Gray, L. G. Bekker, L. Baden, P. Hayes, L. Dally, C. Schmidt, D. Laufer, F. Priddy, P. Fast, J. Gilmour and J. Cox. "Overweight Bmi and Alcohol Use Are Associated with Immune Responses in Phase I Hiv Vaccine Trials." *AIDS Res Hum Retroviruses* 30 Suppl 1, (2014): A186-7.
17. Bergin, P., R. Langat, B. Farah, S. Ogola, **G. Omosa-Manyonyi**, G. Mutua, G. Outtara, H. Park, J. Lehrman, I. Mwangi, H. Coutinho, P. Chetty, M. McMorrow, J. Cox, P. Fast, D. Laufer, J. Gilmour and O. Anzala. "Detection of Vaccine Induced Mucosal Antibodies in Phase I Hiv Preventative Vaccine Trials." *AIDS Res Hum Retroviruses* 30 Suppl 1, (2014): A187.
18. Schmidt, C., W. Jaoko, **G. Omosa-Manyonyi**, P. Kaleebu, J. Mpendo, A. Nanvubya, E. Karita, R. Bayingana, L. G. Bekker, E. Chomba, W. Kilembe, M. Nchabeleng, J. Nyombayire, G. Stevens, P. Chetty, J. Lehrman, J. Cox, S. Allen, L. Dally, C. Smith and P. E. Fast. "Long-Term Follow-up of Study Participants from Prophylactic Hiv Vaccine Clinical Trials in Africa." *Hum Vaccin Immunother* 10, no. 3 (2014): 714-23.
19. Hong, S. Y., K. M. Hendricks, C. Wanke, **G. Omosa**, S. Patta, B. Mwero, I. Mjomba, J. Queenan and M. Mwamburi. "Development of a Nutrient-Dense Food Supplement for Hiv-Infected Women in Rural Kenya Using Qualitative and Quantitative Research Methods." *Public Health Nutr* 16, no. 4 (2013): 721-9.

20. Gaudensia Mutua, **Gloria Omosa**, Harriet Park, Phil Bergin, Dagna Laufer, Pauli Amornkul, Jennifer Lehrman, Pat Fast, Jill Gilmour, Omu Anzala, Bashir Farah. Uptake and tolerability of repeated mucosal specimen collection in two Phase 1 AIDS preventive vaccine trials in Kenya. *Retrovirology* 2012 9(Suppl 2) p122.
21. Hong, S. Y., D. Thompson, C. Wanke, **G. Omosa**, M. R. Jordan, A. M. Tang, S. Patta, B. Mwero, I. Mjomba and M. Mwamburi. "Knowledge of Hiv Transmission and Associated Factors among Hiv-Positive and Hiv-Negative Patients in Rural Kenya." *J AIDS Clin Res* 3, no. 7 (2012)
22. **Omosa-Manyonyi GS**, Jaoko W, Anzala O, Ogutu H, Wakasiaka S, et al. (2011) Reasons for Ineligibility in Phase 1 and 2A HIV Vaccine Clinical Trials at Kenya Aids Vaccine Initiative (KAVI), Kenya. *PLoS ONE* January 21, 2011 6(1): e14580. doi:10.1371/journal.pone.0014580
23. Walter Jaoko, Etienne Karita, Kayitesi Kayitenkore, **Gloria Omosa-Manyonyi**, Susan Allen, Soe Than, Elizabeth M. Adams, Barney S. Graham, Richard A. Koup, Robert T. Bailer, Carol Smith, Len Dally, Bashir Farah, Omu Anzala, Claude M. Muvunyi, Jean Bizimana, Tony Tarragona-Fiol, Philip J. Bergin, Peter Hayes, Martin Ho, Kelley Loughran, Wendy Komaroff, Gwynneth Stevens, Helen Thomson, Mark J. Boaz, Josephine H. Cox, Claudia Schmidt, Jill Gilmour, Gary J. Nabel, Patricia Fast, Job Bwayo. Safety and Immunogenicity Study of Multiclade HIV-1 Adenoviral Vector Vaccine Alone or as Boost following a Multiclade HIV-1 DNA Vaccine in Africa *PLoS ONE* September 21, 2010 Volume 5 Issue 9 e12873
24. Etienne Karita, Nzeera Ketter, Matt A. Price, Kayitesi Kayitenkore, Pontiano Kaleebu, Annet Nanvubya, Omu Anzala, Walter Jaoko, Gaudensia Mutua, Eugene Ruzagira, Joseph Mulenga, Eduard J. Sanders, Mary Mwangome, Susan Allen, Agnes Bwanika, Ubaldo Bahemuka, Ken Awuondo, **Gloria Omosa**, Bashir Farah, Pauli Amornkul, Josephine Birungi, Sarah Yates, Lisa Stoll-Johnson, Jill Gilmour, Gwynn Stevens, Erin Shutes, Olivier Manigart, Peter Hughes, Len Dally, Janet Scott, Wendy Stevens, Pat Fast, Anatoli Kamali. CLSI-Derived Hematology and Biochemistry Reference Intervals for Healthy Adults in Eastern and Southern Africa *PLoS ONE* Feb 6, 2009 4(2): e4401
25. Jaoko WG, Ogutu H, Wakasiaka S, Malogo R, Ndambuki R, Nyange J, **Omosa GM**, Fast P, Schmidt C, Verlinde C, Smith C, Bhatt K, Ndinya-Achola J & Anzala OA. Pregnancy rates among female participants in phase I and phase IIA AIDS vaccine clinical trials in Kenya. *East African Medical Journal* Vol. 86 No. 9 September 2009
26. Walter Jaoko, Frederick N. Nakwagala, Omu Anzala, **Gloria Omosa Manyonyi**, Josephine Birungi, Annet Nanvubya, Farah Bashir, Kirana Bhatt, Hilda Ogutu, Sabina Wakasiaka, Lucy Matu,1, Wambui Waruingi, Jane Odada, Micah Oyaro, Jackton Indangasi, Jeckonia Ndinya-Achola, Carol Konde, Emmanuel Mugisha, Patricia Fast, Claudia Schmidt, Jill Gilmour, Tony Tarragona, Carol Smith, Burc Barin, Len Dally, Bruce Johnson, Andrew Muluubya, Leslie Nielsen, Peter Hayes, Mark Boaz, Peter Hughes, Tom´a´s Hanke, Andrew McMichael, Job Bwayo, Pontiano Kaleebu. Safety and immunogenicity of recombinant low-dosage HIV-1 A vaccine candidates vectored by plasmid pTHr DNA or modified vaccinia virus Ankara (MVA) in humans in East Africa *Vaccine* 2008 May 26, 2788—2795
27. Barry S Peters, Walter Jaoko, Eftyhia Vardas, George Panayotakopoulos, Patricia Fast, Claudia Schmidt, Jill Gilmour, Mampedi Bogoshi, **Gloria Omosa-Manyonyi**, Len Dally, Bashir Farah, Tony Tarragona, Pierre-Alexandre Bart, Andrew Robinson, Colleen Pieterse, Wendy Stevens, Richard Thomas, Burc Barin, Andrew J. McMichael, James A. McIntyre, Giuseppe Pantaleo, Tomas Hanke, Job Bwayo. Studies of a prophylactic HIV-1 vaccine candidate based on modified vaccinia virus Ankara (MVA) with and without DNA priming: effects of dosage and route on safety and immunogenicity *Vaccine*. 2007 Mar 1;25(11):2120-7
28. Kenya National Guidelines for Research and Development of HIV/AIDS Vaccines. Republic of Kenya, Ministry of Health. March 2005

29. Sabina Wakasiaka, Job Bwayo, Jeckonia Ndinya-Achola, **Gloria Omosa**, Walter Jaoko, Wambui Waruingi & Hilda Ogutu (2004). Kenya AIDS Vaccine Initiative HIV Vaccine Peer Leaders' Training Manual
30. *Project dissertation, MSc. Infectious Diseases, University of London 2006*
Analysis of the distribution of CD4 and CD8 T- cell counts, hematology and clinical chemistry parameters of a group of healthy Kenyans and comparing these to existing reference ranges.

d) Conference papers

1. Vulvovaginal Candidiasis: Prevalence And Management At Health Facilities Of Nairobi City County, Kenya. **Omosa-Manyonyi G**, van der Ven A, ten Oever J, Koyio L, MG Netea. Poster presentation at the Infectious Diseases Society of Kenya Conference 17-18 June 2019
2. Julien Nyombayire, Omu Anzala, Brian Gazzard, Etienne Karita, Phil Bergin, Peter Hayes, Jakub T Kopycinski, **Gloria Omosa**, Akil Jackson, Jean Bizimana, Bashir Farah, Eddy Sayeed, Christopher Parks, Makoto Inoue, Jill Gilmour, Angela Lombardo, Patricia E Fast. Recombinant Sendai Vaccine Delivered Mucosally Induces Gag-specific Functional T-cells or Antibody Responses in Prime-boost Regimens in Humans. HIV Research for Prevention 2016 Conference, Chicago (17-21 October 2016), Poster presentation
3. Price, Lindan, Mandel, Brickley, Sehgal, McFarland, Hills, Cox, Miranda, Machezano, **Omosa**, Asiki, YanITAPS/IAVI: Mentorship and Training in Scientific Writing on HIV Prevention Research in Low- and Middle-Income Countries. HIV Research for Prevention 2016 Conference, Chicago (17-21 October 2016), Poster presentation
4. Paul Kitandwe, Bashir Farrah, Jean Bizimana, Etienne Karita, Gaudensia Mutua, Juliet Mpendo, **Gloria Omosa-Manyonyi**, Linda-Gail Bekker, Glenda Gray, Lindsey R. Baden, Jennifer Lehrman, Dagna S. Laufer, Francois Roman, Burc Barin, Claudia Schmidt, Josephine H. Cox, Patricia Fast, Frances Priddy, Huub C Gelderblom and the B002, B003/IPCAVD004/HVTN091 and B004 Study Groups. Vaccine Induced Seropositivity among Recipients of Adenovirus Serotype 35 Vectored HIV-1 Vaccines. HIV Research for Prevention 2016 Conference, Chicago (17-21 October 2016), Poster presentation
5. Laura Lunani, **Gloria Omosa-Manyonyi**, Andrew Abaasa. Determinants of Contraceptive Use among Kenyan Women. HIV Research for Prevention 2016 Conference, Chicago (17-21 October 2014), Poster presentation
6. Nyasani D, Mutua G, Sajabi R, Ng'ang'a J, Gachie J, Maina A, Lunani L, & **Omosa G**. Can a banking protocol only be used to recruit volunteers into an HIV vaccine clinical trial? KAVI- ICR Kangemi site experience. HIV Research for Prevention 2016 Conference, Chicago (17-21 October 2016), Poster presentation
7. **Omosa-Manyonyi, G.**, R. Langat, E. Mutisya, H. Park, P. Bergin, B. Farah, H. Ogutu, S. Ogola, G. Ouattara, J. Indangasi, R. Ndambuki, P. Fast, D. Laufer, F. Priddy and O. Anzala. "Implementation of a Training Program to Standardize Mucosal Sample Collection and Processing at Multiple Laboratories in Eastern Africa." HIV Research for Prevention 2014 Conference, Cape Town South Africa (28 – 31 October 2014), Poster presentation, P40.23
8. Karita, E., O. Anzala, B. Gazzard, P. Bergin, J. Nyombayire, **G. Omosa**, A. Jackson, R. Ingabire, G. Ouattara, H. Park, A. Gumbe, K. Chinyenze, S. Welsh, C. Verlinde, L. Clark, P. Chetty, M. Booley, J. Bizimana, B. Farah, P. Hayes, D. Zachariah, K. Syvertsen, M. F. Lim, L. Dally, B. Barin, M. Inoue, H. Hara, T. Hironaka, T. Shu, M. Hasegawa, T. Matano, E. Sayeed, C. Parks, J. Ackland, P. M. Fast, J. Gilmour, J. H. Cox, A. Lombardo and D. Laufer. "Clinical Safety and Immunogenicity of Two Hiv Vaccines Sev-G (Np) and Ad35-Grin in Hiv-Uninfected, Healthy Adult Volunteers." HIV Research for Prevention 2014 Conference, Cape Town South Africa (28 – 31 October 2014), Oral presentation
9. **G Omosa-Manyonyi**, B Farah, P Bergin, O Anzala, J Gilmour, G Ouattara, G Mutua, J Lehrman, H Ogutu, S Ogola, C Verlinde, R Ndambuki, E Mutisya, K Chinyenze, J Nyange, R Langat, D

- Laufer, H Park, P Fast. “Mucosal specimen collection, processing and assay - Experience from a resource-limited setting in Kenya”. AIDS Vaccine 2013 Conference, Barcelona, Spain (7 – 10 Oct 2013), Poster presentation, P4.16
10. Juliet Mpendo, **Gloria Omosa-Manyonyi**, Eugene Ruzagira, William Kilembe, François Roman, Marguerite Koutsoukos, Angela Lombardo, Len Dally, Paramesh Chetty, Patricia Bourguignon, Peter Hayes, Jill Gilmour, Josephine Cox, Frances Priddy “HIV-1 Fusion Protein (F4/AS01) and Adenovirus-35 Gag-RT-Int-Nef Induce Potent and Durable T-cell and Antibody Responses in Healthy African Adults” AIDS Vaccine 2013 Conference, Barcelona, Spain (7 – 10 Oct 2013), Oral presentation, OA03.06 LB
 11. W. Jaoko, **G. Omosa-Manyonyi**, K.M. Bhatt, S.K. Langat, G. Mutua, B. Farah, J. Nyange, J. Olenja, J. Oyugi, S. Wakasiaka, M. Khaniri, K. Fowke, R. Kaul, O. Anzala “Enhancing Capacity of Research Ethics Review Committees in Developing Countries: The Kenyan Example” AIDS Vaccine 2013 Conference, Barcelona, Spain (7 – 10 Oct 2013), Poster presentation, P11.08
 12. Mutua G, Nyange J, Farah B, Oyugi J, Olenja J, **Omosa-Manyonyi G**, Khaniri M, Jaoko W, Anzala O “An Integrated Approach to Clinical Trial Capacity Building” AIDS Vaccine 2013 Conference, Barcelona, Spain (7 – 10 Oct 2013), Poster presentation, P11.11
 13. Bergin P, Langat R, **Omosa-Manyonyi G**, Farah B, Bizimana J, Umvirigihozo G, Nyombayire J, Ouattara G, Ingabire R, Park H, Chetty P, Verlinde C, Laufer D, Cox J, Stevens G, Fast P, Gilmour J, Karita E, Anzala O “Selection and optimisation of a nasal sampling method for application into Phase 1 Clinical Trials at multiple clinical research centres” AIDS Vaccine 2013 Conference, Barcelona, Spain (7 – 10 Oct 2013), Poster presentation, P08.27
 14. Jill Gilmour, Josephine Cox, Michael Keefer, Eugene Ruzagirwa, Juliet Mpendo, William Kilembe, **Gloria Omosa-Manyonyi**, Lindsey Baden, Etienne Karita, Gaudensia Mutua, Glenda Gray, Linda-Gail Bekker, Gavin Churchyard, Noah Kiwanuka, Francois Roman, Maria-Grazia Pau, John Eldridge, Drew Hannaman, Julie McElrath, Dan Barouch, Patricia Bourguignon, Omu Anzala, Jean-Louis Excler, Len Dally, Burc Barin, Frances Priddy, Dagna Laufer, Claudia Schmidt, Patricia Fast. “Filling in the immunological space: Low seroprevalent human Ad HIV vaccines alone or with adjuvanted protein or electroporated DNA elicit different immune profiles” AIDS Vaccine 2013 Conference, Barcelona, Spain (7 – 10 Oct 2013), Poster presentation, P13.75
 15. **G Omosa-Manyonyi**, H Ogutu, R Malogo, G Mutua, D Nyasani, R Sajabi, R Mahira, G Ouattara, E Mutisya, A Maina, J Nyange, J Wairimu, M Muriuki, L Lunani, R Ndambuki. Pre-screening and ‘banking’ participants for clinical research – Experience from Kenya AIDS Vaccine Initiative (KAVI-ICR). University of Nairobi/Kenyatta National Hospital 2nd International Scientific Conference; Oral Presentation, 19 -21 June 2013
 16. Patricia Bourguignon, Josephine Cox, Peter Hayes, Juliet Mpendo, **Gloria Omosa-Manyonyi**, Eugene Ruzagira, Elwyn Chomba, Len Dally, François Roman and Frances Priddy. Co-administration of an adjuvanted HIV-1 Gag-Pol-Nef fusion protein (F4/AS01) and Adenovirus-35 Gag-RT-Int-Nef (Ad35-GRIN) is well tolerated and induces potent, polyfunctional CD4+ and CD8+ T cell responses. Keystone Symposia, February 10-15, 2013, Poster #1019, Poster Session 1 - February 11, 2013.
 17. Gaudensia Mutua, **Gloria Omosa**, Harriet Park, Phil Bergin, Dagna Laufer, Pauli Amornkul, Jennifer Lehrman, Pat Fast, Jill Gilmour, Omu Anzala, Bashir Farah. Uptake and tolerability of repeated mucosal specimen collection in two Phase 1 AIDS preventive vaccine trials in Kenya. Poster presentation at AIDS Vaccine 2012, 9-12 September in Boston, Massachusetts, USA
 18. **Gloria Omosa**, Bashir Farah, Harriet H. Park, Alethea Cope, Phil Bergin, Paramesh Chetty, Pat Fast, Robin Shattock, Gwynneth Stevens, Josephine Cox, Pauli N. Amornkul, Jill Gilmour, Omu Anzala. Mucosal specimen collection in Africa: preliminary results of a pilot study for use in future HIV vaccine trials. Poster presentation, AIDS Vaccine 2010, Atlanta, Georgia September 6-9

19. **Gloria Omosa-Manyonyi**, Walter Jaoko, Omu Anzala, Hilda Ogutu, Rose Ndambuki, Sabina Wakasiaka, Priscah Wawire, Roselyn Malogo, Fred Oyugi, Samuel Kazungu, Desmond K'Owino, Bashir Farah, Micah Oyaro, Jackton Indangasi, Simon Ogola, James Onyango, Jacky Nyange, Tony Tarragona, Melissa Simek, Jennifer Lehrman, Fran Priddy, Patricia Fast. Characteristics of a cohort of Kenyans with neutralizing antibodies against HIV infection. KNH 2ND Annual Scientific Conference
20. **Omosa-Manyonyi G**, Jaoko W, Anzala O, Ogutu H, Ndambuki R, Wakasiaka S, Malogo R, Kayitenkore K, Karita E, Schmidt C, Fast P, Komaroff W, Cooper A, Boaz M, Gilmour J, Dally L, Ho M, Smith C, Graham B. Safety and immunogenicity of the VRC recombinant multiclade HIV-1 adenoviral vector vaccine alone or in combination with the VRC multiclade HIV-1 DNA plasmid vaccine in healthy African adults (2009). Oral presentation at The Kenya Medical Association 36th Annual Scientific Conference (2008)
21. Kayitenkore K, **Omosa-Manyonyi G**, Bwayo J, Karita E, Jaoko WG, Schmidt C, Gilmour J, Boaz M, Than S & Graham B (2007) Safety and immunogenicity of the VRC recombinant multiclade HIV-1 adenoviral vector vaccine alone or in combination with the VRC multiclade HIV-1 DNA plasmid vaccine in healthy African adults. CROI, Los Angeles, USA
22. Jaoko W, **Manyonyi GO**, Bhatt K, Anzala AO, Ogutu H, Ndambuki R, Wakasiaka S, Farah BM, Ogola S, Indangasi J, Onyango J, Nyange J, Ndinya-Achola J, Thomson H, Gilmour J, Than S, Komaroff W, Kambili C, Fast P & Bwayo JJ (2006) Out of range laboratory values: a major reason for exclusion from a phase 1 HIV vaccine clinical trial, AIDS Vaccine 2006, Amsterdam, THE NETHERLANDS, August 28-September 2
23. **Omosa-Manyonyi G**, Jaoko WG, Wakasiaka S, Bwayo J, Anzala AO, Schmidt C, Oyaro M, Ogutu H, Farah B, Nyange J, Bender B, Odada J, Fast P & Verlinde C (2005) HIV vaccine clinical trials enrollment and retention: Experience from Kenya AIDS Vaccine Initiative (Abstract No. 309P), AIDS Vaccine 2005, Montreal, Canada, September 6-9
24. **Omosa-Manyonyi G**, Jaoko WG, Wakasiaka S, Bwayo J, Ndinya-Achola J, Schmidt C, Bhatt K, Ogutu H, K'Owino D, Dally L, Malogo R & Fast P (2005) Challenges experienced by the clinical team during the conduct of HIV vaccine clinical trials in Kenya (Abstract No. 323P), AIDS Vaccine 2005, Montreal, Canada, Sept 6-9
25. Jaoko WG, **Omosa G**, Bhatt K, Matu L, Ogutu H, Wakasiaka S, Odada J, Anzala O, Bashir F, Oyaro M, Indangasi J, Ndinya-Achola J, Schmidt C, Hanke T, McMichael A, Fast P & Bwayo J (2004) Safety and immunogenicity of DNA and MVA HIVA vaccines in Phase-1 vaccine trials in Nairobi, Kenya (Abstract No. 56), AIDS Vaccine 2004, Lausanne, Switzerland, August 6-9.
26. Jaoko WG, **Manyonyi GO**, Bhatt KM, Wakasiaka S, Ogutu H, Bashir FM, Anzala AO, Oyugi M, Schmidt C, Ongeru M, Waruingi W, Nyange J, Indangasi J, Bwayo JJ, Ndinya-Achola J, Mbori-Ngacha D, Ngugi E & Fast P (2004) Safety profile of DNA and MVA HIV preventive vaccines (Abstract No. ThPeA7002), 15th International AIDS conference, Bangkok, Thailand, July 11-16
27. Wakasiaka S, McBride M, **Omosa GM**, Bwayo JJ, Ndinya-Achola A, Jaoko WG, Anzala O, Ogutu H & Waruinge W (2004) Reasons for declining enrolment among eligible volunteers in a phase II HIV vaccine trial in Kenya (Abstract No. ThPeA7000), 15th International AIDS Conference, Bangkok, Thailand, July 11-16
28. Wakasiaka S, Bwayo J, Ndinya-Achola J, Jaoko WG, Anzala O, **Omosa GM**, Ogutu HA, Nyange J (2004). Enhanced volunteer recruitment in HIV vaccine trials in Kenya (Abstract No. ThPeA6999), 15th International AIDS Conference, Bangkok Thailand, July 11-16
29. Anzala O, **Manyonyi GO**, Jaoko W, Bashir M, Oyugi J & Bwayo J (2004) CD4+ and CD8+lymphocyte distribution among healthy Kenyans (Abstract No. ThPeA7001), 15th International AIDS Conference, Bangkok, Thailand, July 11-16
30. Farah B, Ogola S, Indangasi J, Oyaro M, Anzala O, **Omosa-Manyonyi G**, Jaoko W, Gilmour J & Bwayo J (2004) The use of viral peptides as a quality control for ELISPOT assays in HIV-1 vaccine trials in Kenya, (Abstract No. A10065), 15th International AIDS Conference, Bangkok, Thailand, July 11-16

31. **Omosa-Manyonyi G**, Jaoko W, Wakasiaka S, Ogutu H, Bashir F, Oyaro M, Bwayo J, Anzala O. Safety Issues, DNA & MVA HIV Vaccine Trials at KAVI-ICR
Oral presentation at the WHO Collaborative Research Center for HIV & STDs Annual Retreat, Nairobi (Jan 2003)
32. **Omosa G**, Jaoko W, Wakasiaka S, Ogutu H, Bwayo J. Volunteer Recruitment for phase 1 HIV Vaccine Trials in Nairobi Poster presentation, at the 5th Annual Conference on Vaccine Research in Baltimore Maryland, USA (May 2002).

e) Development of educational material:

- Medical Microbiology Online Learning Content for Bachelor of Science in Nursing (2016)
- Writing for an Academic Audience – participated in module development for Association of Commonwealth Universities (ACU) Structured Training for African Researchers program (2014)
- Participated in the development of Bioethics Course Training Manual for Institutional Ethics Review Board members (awaiting printing)
- Mucosal Sample Collection and Processing Procedures for Clinical Researchers
- Introduction to Clinical Research, Good Clinical Practice, and Scientific Aspects of Clinical Trials in Infectious Diseases for Vienna School of Clinical Research Courses
- Participated in the development of the ‘Kenya AIDS Vaccine Initiative HIV Vaccine Peer Leaders’ Training Manual
- Participated in the development of the “Kenya National Guidelines for Research and Development of HIV/AIDS Vaccines”

f) Training/teaching activities

- Faculty - Teaching of Medical Microbiology to undergraduate and postgraduate medical students, University of Nairobi, Kenya
- Trainer/faculty – Scientific Manuscript Writing Program:
 - University of California San Francisco: 2015 - ongoing
 - International AIDS Vaccine Initiative: 2016 - ongoing
 - Medical Research Council/Uganda Virus Research Institute and London School Of Hygiene And Tropical Medicine (MRC/UVRI and LSHTM) Uganda Research Unit - 2018
- Trainer: -
 - Bioethics Course for Institutional Ethics Review Board (IERB) members
 - Mucosal Sample Collection and Processing for Clinical Researchers
 - Clinical Trials and Research Ethics in a Developing Country Setting
 - Good Clinical Practice (GCP)
 - Vaccine literacy training of various of health care personnel in Kenya, KAVI-ICR Community Advisory Board (CAB) and Peer Leaders on basics of HIV/STI, Clinical trials, and their roles at KAVI-ICR
 - Clinical Trials and Research Ethics in a Developing Country Setting - offered to PhD students on the International Infectious Disease and Global Health Training Program.

g) Student Supervision and Mentorship

Supervision

1. Brian Soita Khajonga: Supervisor - MSc. Medical Microbiology, University of Nairobi. To determine the prevalence of Toxoplasmosis, and the risk factors for the transmission of *Toxoplasma gondii* infection among pregnant women at the antenatal ward of Kenyatta National Hospital (ongoing)
2. Dorica Ivayo – Antibiotic Stewardship at Mbagathi County Hospital, Nairobi, Kenya (completed)

3. Amoo, Abimbola Muideen - Transfusion transmissible parasitic infections among blood donors in Ibadan, southwest Nigeria (completed)
4. Miriam Jemutai - Characterization of an anomalous *Trypanosoma brucei rhodesiense* isolate from Busia County, a sleeping sickness focus in western Kenya (completed)
5. Nida Akinyi Okumu - Knowledge, Attitude and Practice towards Childhood Immunization among Teenage Mothers in Nairobi Slums (ongoing)

Mentorship in Scientific Manuscript Writing

6. Yunia Mayanja (MRC/UVRI Uganda Research Unit on AIDS): Mentorship – ITAPS Scientific Manuscript Writing Program, UCSF (2015) – completed
7. Robert Langat (KAVI-ICR): Mentorship - ITAPS Scientific Manuscript Writing Program, University of California San Francisco (UCSF) (2015) - completed
8. Julien Nymbayire (Rwanda-Zambia HIV Research Group-Projet San Francisco Kigali Rwanda): Mentorship – ITAPS Scientific Manuscript Writing Program, UCSF (2016) - ongoing
9. Elizabeth Wahome (KEMRI-Centre of Geographical Medicine Research Coast Kenya): Mentorship - ITAPS Scientific Manuscript Writing Program, UCSF (2016) – completed
10. Laura Lusike (KAVI-ICR) - Mentorship - Scientific Manuscript Writing Program, Nairobi, Kenya (2016) – completed
11. Delvin Nyasani (KAVI-ICR) - Mentorship - Scientific Manuscript Writing Program, Nairobi, Kenya (2016) – completed
12. Zacchaeus Anywaine ((MRC Uganda) - Mentorship - Scientific Manuscript Writing Program, Nairobi, Kenya (2016) - ongoing
13. Clara Agutu (KEMRI-Centre of Geographical Medicine Research Coast Kenya): - Mentorship - Scientific Manuscript Writing Program, Nairobi, Kenya (2017) – completed
14. Brigitte Ndandari (Rwanda-Zambia HIV Research Group-Projet San Francisco Kigali Rwanda) - Scientific Manuscript Writing Program, Nairobi, Kenya (2017) – ongoing
15. Heeran Makkan (The Aurum Institute, Rustenburg Research Centre, Rustenburg, North-west Province, South Africa) - Scientific Manuscript Writing Program, Nairobi, Kenya (2018) - ongoing

i) AWARDS

- Travel Award - The Global Health Travel Award funded by the Bill & Melinda Gates Foundation Keystone Symposium “S6, Role of the Genital Tract Microbiome in Sexual and Reproductive Health”
- Collaborative Research Grant - International AIDS Vaccine Initiative (2017) - “Prevention Of HIV Transmission By Improved Management Of Recurrent Vulvovaginal Candidiasis: A Study On Vulvovaginal Candidiasis, associated Microbiome And Vaginal Self-Sampling for Metagenome Analysis” (Kenya shillings 10 Million)
- Training scholarship - International Traineeships in AIDS Prevention Studies (ITAPS) Scientific Mentoring-of-Mentors Program (2015), University of California San Francisco
- The Association of Commonwealth Universities Structured Training for African Researchers (STARS) Project – 2014-2016
- Travel Award – HIV Research for Prevention (R4P) 2014, Cape Town, S. Africa
- Travel Award – AIDS Vaccine 2013, Barcelona, Spain
- Travel Award - AIDS Vaccine 2005, Montreal, Canada
- Travel Award - 5th Annual Conference on Vaccine Research, Baltimore, USA