



CURRICULUM VITAE

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English Language : Spoken ability -Fluent
Writing ability -Good

Local Languages : Kiswahili, Kikuyu.

Computer : Knowledgeable in several computer packages.

EDUCATION

1996 –1998 :M.P.H (*Epidemiology*); University of Washington, Seattle, USA
:Diploma (*International Health*); University of Washington, Seattle, USA
1996- 1998 : Scholar; International AIDS Research and Training Program
(IARTP), University of Washington, Seattle, USA
1985-1990 : MB ChB; University of Nairobi, Nairobi, Kenya
1982-1983 : Nyeri High School; 3 Principles, 1 Subsidiary.
1978-1981 : Githumu High School; Division 1.

PROFESSIONAL TRAINING

2011 March : Good Clinical Practice & Research Ethics Certificate – Pfizer , NIH
2008; February : Good Clinical Practice Certificate – NCID, CAPT, IAVI, NIH
2006; February : Monitoring for Clinical Drug Studies – Barnett International Course
2006: January : Research Ethics Training

2005; June : Clinical Monitors Training/ **FHI Trainer course**

2005; February : Research Ethics Training/ **Trainer course**

2005; January : Good Clinical Practice Certificate – FHI

2004; Aug : Project Management Methodology – KPMG

2002; June : Third advanced vaccinology course, Foundation Merieux, France

2001; July : Principles of STD/HIV Research, University of Washington, Seattle

1989; June- Oct : Infectious Diseases Elective, University of Manitoba, Canada

WORK EXPERIENCE

Summary

An experienced clinician and public health specialist with more than fifteen years of experience in development, conduct and evaluation of research, clinical trials, training and interventions in the areas of STIs/ HIV/AIDS, Reproductive health and Malaria.

Assignments involved in:

Name of assignment: Clinical Research Director – Kenya AIDS Control Project, University of Manitoba, Winnipeg, Canada/ University of Nairobi Collaborative Research program, UNITID, University of Nairobi

Location: Kenya

Date: July 2006 – to date

Responsibility: Provide technical assistance in the development, design and implementation of HIV/AIDS research, ART and care services and programmatic portfolio, for the University of Manitoba/ University of Nairobi research projects, Nairobi, Kenya

Activities:

1. Assumed management and implementation of the Grand Challenge in Global Health Program funded by Bill and Melinda Gates Foundation and the National Institutes of Health, for the University of Manitoba/ University of Nairobi research group
2. The Grand Challenge involves two main projects:
 - a. Comprehensive studies of HIV resistance in Highly exposed Uninfected women in Kenya
 - b. Immunogenetic and Immunoregulatory basis for mucosal immune responses

to HIV-1 in highly exposed and uninfected sex workers

3. **Clinical Director:-** for a HIV basic care/ ART program that provides palliative care/ ART to 9700 and 4300 clients respectively. The program is funded through CDC-PEPFAR – **Ongoing**
Funding level – 1.4M
4. **Clinical Director:-** Increasing access to quality comprehensive HIV prevention services for Most-At-Risk Populations (MARPs) in the Republic of Kenya under the President’s Emergency Plan for AIDS Relief, Under the President’s Emergency Plan for AIDS Relief (PEPFAR) –
Site: Nairobi Province – **Ongoing**
Funding Level – USD 2.3M

Clinical Trials

- **P. Investigator:** Harnessing mobile phone usage for HIV and horizontal health systems improvement: PMTCT. Site: Pumwani Maternity Hospital
Funded by – IDRC/CIDA;- **Ongoing**
Funding level – Can\$ 300000
- **P. Investigator:** - “An open label, non-comparative study to evaluate parasitological clearance rates and pharmacokinetics of Azithromycin and Chloroquine following administration of a fixed dose combination of Azithromycin and Chloroquine (AZCQ) in asymptomatic pregnant women with *Plasmodium falciparum* parasitemia in sub-Saharan Africa -A0661201
Site: Siaya District Hospital
Funded by – Pfizer PLC;- **Ongoing**
Funding level – USD 150000
- **P. Investigator:** - “A Phase 3, open label, randomized, comparative study to evaluate azithromycin plus chloroquine and sulfadoxine plus pyrimethamine combinations for intermittent preventive treatment of falciparum malaria infection in pregnant women in Africa - A0661158.
Site: Siaya District Hospital
Funded by – Pfizer PLC;- **Ongoing**
Funding Level – USD 2.0 M
- **Site P. Investigator:** - “A Double-Blind, Randomized Trial of Monthly Treatment with Topical Metronidazole and Miconazole Co-Formulated Vaginal Suppositories Verses Placebo for Preventing Vaginal Infections in HIV-Seronegative Women (DMID # 09-0070).
Funded by –DMID # 09-0070 – NIH ;- **Ongoing**
Funding Level – USD 230000

- **Co- Investigator:-** A randomized targeted cell phone intervention to improve patients access to care and drug adherence among clients taking antiretrovirals (ARV) medications in Kenya. Funding- CDC PEPFAR – **Finalized**
Funding level USD 300000
- Co – investigator: Phase III comparative, double-blind, (double-dummy) randomised, multi-centre, Clinical study to assess the safety and efficacy of fixed dose formulation of oral pyronaridine artesunate tablet (180:60mg) versus Coartem[®] (artemether/lumefantrine) in children and adult patients with acute uncomplicated *Plasmodium falciparum* malaria -SP-C-005-06- Funded by MMV
Site: Siaya District Hospital – **Finalized**
Funding level – USD 450000
- **Co- Investigator:** A Phase III comparative, open-labeled, randomised, multi-centre clinical study to assess safety and efficacy of a fixed dose of oral pyronaridine artesunate granule formulation (60:20 mg) (paediatric PYRAMAX[®]) versus Coartem[®] (artemether lumefantrine) crushed tablets in infants and children with acute uncomplicated Plasmodium falciparum malaria” (SP-C-007-07)- Funded by MMV.
Site: Siaya District Hospital – **Finalized**
Funding level – **USD 250000.00**

Faculty Appointments

- 2006 – To Date: Lecturer;- University of Nairobi Institute of Tropical and Infectious Diseases (UNITID, College of Health Sciences, University of Nairobi, Nairobi.
-Unit Coordinator – Epidemiology and Biostatistics, MSc TID
- 2006- To Date: Assistant Professor: Department of Medical Microbiology, University of Manitoba, Canada :
(http://www.umanitoba.ca/faculties/medicine/units/medical_microbiology/kimani.html)

AWARD

Young scientist award:- The International Society for Sexually Transmitted Diseases (ISSTD) Research, Helsinki, Finland - 1993.

Research paper:-*Risk factors for Gonococcal and Chlamydial cervicitis among prostitutes in Nairobi.*

Other Activities

2008 – 2010

- **GenBenefit project; UNITID focal person** – Case study on minimum benefit sharing with vulnerable populations in developing countries in the context of

medical research, in particular for donors of biological samples.

- **McLaughlin-Rotman Centre for Global Health, University of Toronto; UNITID focal person** – Evaluation on community engagement strategies with the Majengo sex workers.

Name of assignment: Senior Regional Research Advisor; **Family Health International (FHI)**

Location: Kenya, and sub-Saharan Africa

Date: 2003 – 2006

Responsibility: Provided technical assistance in the development, design and implementation of research, Clinical trials and programmatic portfolio of FHI's Regional Office for Population activities.

Activities undertaken:

- **Identification and assessment** of potential phase II & III clinical trial sites for HIV, TB and Malaria activities (candidate vaccines, microbicides and new drugs) in the region. Sites assessed in Tanzania, Malawi, Swaziland, Lesotho, South Africa, Kenya, Zimbabwe, Uganda, Rwanda, Gambia and Senegal
- **Medical and Clinical monitor in-charge:** Phase II clinical trial involving a fixed dose oral formulation of Pyroniradine and Artesunate for Malaria in Uganda, Gambia and Senegal. Funding by Medicines for Malaria Venture (MMV)
- Clinical trial **site assessments earmarked for development** for several donors in Uganda, Tanzania, Kenya, Malawi, Rwanda, Lesotho and Swaziland
- **Technical assistance** to the Microbicides clinical trial initiatives in Kenya, Tanzania and South Africa. Funding by International Partnership for Microbicides (IPM)
- Technical assistance to the **HIV/AIDS workplace programs** in the region
- Implants (*Jadelle and Implanon*) promotion in Kenya, Uganda and Tanzania
- An assessment of Family Planning needs in Kenya and South Africa in the context of HIV/AIDS epidemic
- Piloting, Training and evaluating an **FP/VCT services integration** initiative in Kenya
- Development of a training module: *“Contraception for couples and women with HIV”*
- An assessment of services for **adolescents** in prevention of mother to child transmission (PMTCT) programs in Kenya
- **Identification and scaling up** of PMTCT best practices in Kenya
- **Research to Practice (RTOP)** Initiative at the Regional office whose objective is to enhance use of research results from HIV/AIDS/reproductive health (RH) practice by bringing the best evidence to bear on programs and policies.
-Piloted the operationalization of this initiative in FHI's regional interest countries.

Name of assignment: Field Director: Kenya AIDS Control Project, University of

Manitoba/University of Nairobi

Location: Kenya

Date: 2001-2003

Responsibility:

Administered and coordinated collaborative research activities at the Center for STDs/HIV and AIDS Research and Training, Medical Microbiology, University of Nairobi. My daily research and clinical supervision responsibilities involved the activities detailed below within three specialized cohorts in Nairobi. In addition, I managed research funds and supervised five project medical research doctors, nurses and support staff in their day to day management of the clinical sites.

Duties involved;

- Supervising the coordination and management of the reproductive track infections, promotion of condom-use, partner notification, drug compliance and advice on risk reduction among commercial sex workers cohorts and youth in Nairobi.
- Promoted the acceptance of the HIV vaccine phase-1 trial being conducted by the Kenya AIDS vaccine Initiative (KAVI) among clients in the cohort and general public.
- Supervised studies on the mechanisms of HIV-1 resistance among the highly exposed persistently seronegative (HEPS) sex workers geared towards the improvement of the HIV-1 vaccine construct.
- Directed a randomised double blind clinical trial to evaluate regular routine Azithromycin chemoprophylaxis (monthly) on STD and HIV incidence in a female sex workers cohort.
- Ensured that **good clinical practice** and all the standard operating procedures were adhered to with the different projects.
- Supervised the management of opportunistic infections and the monitoring of 50 plus clients on ARVS within the collaborative center.
- Provided medical monitoring and severe adverse events (SAE) reporting to the research team and data safety and monitoring board (DSMB).
- Co-ordinated the administration of the research projects at 6 clinical sites, assisted in drafting scientific and general reports for dissemination.
- Prepared monthly reports on all projects activities for the collaborators.
- Assured data and specimen quality required for further overseas processing.
- Ensured shipment of quality specimens to our collaborative partners.
- Responded to print/electronic media issues related to the operations of the STD/HIV projects.
- Secretary to the collaborative center management board and responsible for keeping track of the core cost expenses.

Name of assignment: UNICEF Somalia Consultant

Location: Somalia

Date: 2000-2003

Responsibility:

- Provided technical assistance in the development of an STD/HIV and TB control strategic plan for Somalia (SACB- Somalia)
- Developed the curriculum and conducted the training of trainers (TOT) on STI syndromic management of among health care professionals in Somalia, Puntland and South and Central regions of Somalia, and Somaliland.
- Developed the curriculum and conducted awareness workshops for government officials and stakeholders in South and Central regions of Somalia

Name of assignment: USAID- REDSO Consultant

Location: Kenya

Date: Oct 2001 – February 2002

Responsibility:

- Developed the methodology, sampling frame and the research tools for the STI/HIV/AIDS training needs assessment (TNA) to be conducted in Eleven countries within the Eastern and South Africa region. We administered the questionnaires in the pilot phase to Key informants in Kenya.
- Implementing agency: The Regional AIDS Training Network (RATN) and the Center for African Family Studies (CAFS) for USAID-REDSO

Name of assignment: Program Coordinator

Location: Kenya

Date: 1997- 2000

Responsibility:

My key responsibilities involved project administration and supervision of the reproductive health research activities conducted among female sex workers cohorts in Nakuru, Mombasa and Nairobi; a vertical transmission project in Pumwani maternity hospital and one randomized clinical trial. I was responsible for the following activities/studies at the center:-

- Management of the reproductive health projects, promotion of condom-use, partner notification, drug compliance and advised on risk reduction among commercial sex workers cohorts supported by the center.
- Advisor to the HIV/STD program among the youth in Majengo slums.
- Managed the diagnostic counselling and testing for HIV at the centre.
- Evaluation of the risk factors for sexually transmitted infections.
- Ran a randomised clinical trial to evaluate regular routine Azithromycin chemoprophylaxis (monthly) on STD and HIV incidence in a female sex workers cohort.
- Mechanisms of HIV-1 resistance.
- Family study on HIV-1 resistance among a group of highly exposed but persistently seronegative prostitutes in Nairobi.
- Correlates of HIV-1 infection among long-term non-progressor and rapid progressor's.

- Validation of WHO respiratory infections treatment algorithm.
- Commercial sex workers mobilisation and outreach programs.
- HIV vertical transmission studies – MCH clinic, Pumwani hospital.
- Data management.
- Respond to print/electronic media issues related to the operations of the STD/HIV projects.

Name of assignment: Program Medical Officer

Location: Kenya

Date: 1991-1996

Responsibility:

Medical officer in-charge of the Majengo prostitute cohort! Conducted and supervised the reproductive health research activities in this clinic where, a combination of curative, educational and enabling strategies were used. Specifically,

- In-charge of the research activities and data management at the station.
- Managed client's STD/HIV complaints and promoted condom use, partner notification and drug compliance.
- Advised on the Family planning needs.
- Conducted and supervised individual and group counseling session.
- Organized focus groups discussions among CSW and youth in the slums of Nairobi
- Implemented a community outreach program for the commercial sex workers.
- Despite all efforts at prevention, clients still presented with classical STI's and were used for practical demonstrations on their syndromic management to medical students/ health workers at the clinic.

1997- 2003: Guest lecturer at the Department of Medical microbiology:-

Undergraduate Medical students

- Epidemiology of STDs, HIV and AIDS.
- Public health importance and management of STI.
- Research methodology.

Postgraduate students (Diploma in the control and management of STDs)

- Epidemiology of STDs, HIV and AIDS.
- Public health importance and management of STI
- Research methodology.
- Continuum of care in HIV/AIDS management

Advocacy and other Activities

1. Reproductive health, STD/HIV and AIDS advocacy issues through the mass media;

- Several KBC radio and TV appearances in Kiswahili, English and Kikuyu.
- Metro FM- STD /HIV and HIV vaccines issues.
- Nation FM- “Your Shout” - Commercial sex work issues
- Discovery Channel – USA/ Canada – Documentaries to generate public support for the STD/HIV funding.

- M6 Channel- France – Documentaries to generate public support for the STD/HIV funding.
 - CBS Canada – Documentaries to generate public support for the STD/HIV funding.
 - Facilitator; in STD/HIV and AIDs training programs .
3. Technical Advisor - HIV and AIDS at the work place - Kenya Business Council
 4. Site Director - Nairobi: Canada Africa Prevention Trial Network (CAPT- Network)

Publications

1. Izulla P, McKinnon LR, Munyao J, Karanja S, Koima W, Parmeres J, Kamuti S, Kioko R, Nagelkerke N, Gakii G, Wachihi C, Muraguri N, Musyoki H, Gelmon L, Kaul R, **Kimani J.** *HIV Postexposure Prophylaxis in an Urban Population of Female Sex Workers in Nairobi, Kenya.* J Acquir Immune Defic Syndr. 2013 Feb 1;62(2):220-225.
2. Izulla, Preston; McKinnon, Lyle R.; Munyao, Julius; Karanja, Sarah; Koima, Winnie; Parmeres, Joshua; Kamuti, Solomon; Kioko, Rosalia; Nagelkerke, Nico; Gakii, Gloria; Wachihi, Charles; Muraguri, Nicholas; Musyoki, Helgar; Gelmon, Lawrence; Kaul, Rupert; **Kimani, Joshua.** *HIV Postexposure Prophylaxis in an Urban Population of Female Sex Workers in Nairobi, Kenya.* **JAIDS Journal of Acquired Immune Deficiency Syndromes.** 62(2):220-225, February 1, 2013.
3. **Joshua Kimani;** Judith Kusimba; Lyle R McKinnon; Nicholas Muraguri; Festus K Muriuki; Helgar Musyoki; Mercy Muthui; Charles Wachihi; T Blake Ball; Sarah Birir; Gloria Gakii; Anthony Kariri; Rupert Kaul; Lawrence Gelmon. *Enumeration of sex workers in the central business district of Nairobi, Kenya.* **PloS One 2013; 8 (1): 54354.**
4. Syeda Rahman; Charles Wachihi; Terry B Ball; **Joshua Kimani;** Francis A Plummer; Rasheda Rabbani; Adam Burgener. *Mucosal serpin A1 and A3 levels in HIV highly exposed sero-negative women are affected by the menstrual cycle and hormonal contraceptives but are independent of epidemiological confounders.* **American journal of reproductive immunology: 1989) 2013; 69 (1):64-72.**
5. William J R Turk; Charles Wachihi; Francis A Plummer; Terry Blake Ball; Tomasz Bielawny; **Joshua Kimani;** Ma Luo. *Associations of human leukocyte antigen-G with resistance and susceptibility to HIV-1 infection in the Pumwani sex worker cohort.* **AIDS (London, England) 2013;27(1):7-15.**

6. Ma Luo; T Blake Ball; Thomas Bielawny; Kristina Broliden; Joanne Embree; Taha Hirbod; **Joshua Kimani**; Philip A Lacap; Sue Ramdahin; James Sainsbury; Jeffrey Tuff; Charles Wachihi; Xin-Yong Yuan; Francis A Plummer. *A genetic polymorphism of FREM1 is associated with resistance against HIV infection in the Pumwani sex worker cohort.* **Journal of virology** 2012;**86(21):11899-905.**

7. Philippe R S Lagace-Wiens; Scott McClelland; Sarah Duncan; **Joshua Kimani**; Nicholas Muraguri; Eduard J Sanders; Juma Shafi; Alexander Thiong'o; George Zhanel; Supriya D Mehta. *Emergence of fluoroquinolone resistance in Neisseria gonorrhoeae isolates from four clinics in three regions of Kenya.* **Sexually transmitted diseases** 2012; **39(5):332-4.**

8. Kassoum Kayentao, Ogobara K Doumbo, Louis K Pénali, André T Offianan, Kirana M Bhatt, **Joshua Kimani**, et al. *Pyronaridine-artesunate granules versus artemether-lumefantrine crushed tablets in children with Plasmodium falciparum malaria: a randomized controlled trial.* **Malaria Journal** 2012, **11:364 (31 October 2012)**

9. Lyle R McKinnon; Nico J Nagelkerke; Charles Wachihi; Terry Blake Ball; Keith R Fowke; Rupert Kaul; **Joshua Kimani**; Francis A Plummer. *HIV-specific CD8+ T-cell proliferation is prospectively associated with delayed disease progression.* **Immunology and cell biology** 2012; **90(3):346-51.**

10. Hormas Ghadially; Yoav Keynan; **Joshua Kimani**; Makobu Kimani; Ofer Mandelboim; T Blake Ball; Francis A Plummer; Adrienne F A Meyers. *Altered dendritic cell-natural killer interaction in Kenyan sex workers resistant to HIV-1 infection.* **AIDS** 2012;**26(4):429-36.**

11. Lyle R McKinnon; Nico J D Nagelkerke; Souradet Y Shaw; Charles Wachihi; Aggrey O Anzala; Winnie Apidi; T Blake Ball; Rupert Capina; Walter Jaoko; Anthony Kariri; Rupert Kaul; **Joshua Kimani**; Makobu Kimani; Ma Luo; Francis A Plummer. *HIV-1 clade D is associated with increased rates of CD4 decline in a Kenyan cohort.* **PloS one** 2012;**7(11):e49797.**

12. Catherine M Card; T Blake Ball; **Joshua Kimani**; Makobu Kimani; Francis A Plummer; Sue Ramdahin; WJ Rutherford; Charles Wachihi; Xiaojian Yao; Keith R Fowke. *Reduced cellular susceptibility to in vitro HIV infection is associated with CD4+ T cell quiescence.* **PloS one** 2012;**7(9):e45911.**

13. Duncan Chege; Sanja Huibner; Walter Jaoko; Taylor Kain; Anthony Kariri; Omu Anzala; T Blake Ball; Samson Barasa; Yijie Chai; **Joshua Kimani**; Makubo Kimani; Lyle R McKinnon; Festus K Muriuki; Francis A Plummer; Charles

Wachihi; Rupert Kaul. *Blunted IL17/IL22 and pro-inflammatory cytokine responses in the genital tract and blood of HIV-exposed, seronegative female sex workers in Kenya.* **PloS one 2012;7(8):e43670.**

14. John J Schellenberg; Charles Wachih; T Blake Ball; Tim J Dumonceaux; Keith R Fowke; Janet E Hill; Walter Jaoko; **Joshua Kimani**; Margo Lane; Jane Njeri Mungai; Francis A Plummer. *Selection, phenotyping and identification of acid and hydrogen peroxide producing bacteria from vaginal samples of Canadian and East African women.* **PloS one** 2012;7(7):e41217.
15. Elysha Mawji; Lyle R McKinnon; Nico Nagelkerke; Elizabeth Ngugi; Francis Plummer; Paul Thottingal; Charles Wachih; T Blake Ball; Duncan Chege; Lawrence Gelmon; Walter Jaoko; Anthony Kariri; **Joshua Kimani**; Rupert Kaul. *Does antiretroviral therapy initiation increase sexual risk taking in Kenyan female sex workers? A retrospective case-control study.* **BMJ open** 2012;2(2):e000565.
16. Jennifer Juno; Joshua Kimani; Sandra Koesters-Kiazyk; Ma Luo; Francis A Plummer; Jeffrey Tuff; Charles Wachih; T Blake Ball; Catherine Card; Robert Choi; Carey Farquhar; Grace C John-Stewart; Keith R Fowke. *The role of G protein gene GNB3 C825T polymorphism in HIV-1 acquisition, progression and immune activation.* **Retrovirology** 2012;9:1.
17. Ghadially H, Keynan Y, **Kimani J**, Kimani M, Ball TB, Plummer FA, Mandelboim O, Meyers AF. *Altered dendritic cell-natural killer interaction in Kenyan sex workers resistant to HIV-1 infection.* **AIDS.** 2012 Feb 20;26(4):429-36
18. Schellenberg JJ, Card CM, Ball TB, Mungai JN, Irungu E, **Kimani J**, Jaoko W, Wachih C, Fowke KR, Plummer FA. *Bacterial vaginosis, HIV serostatus and T-cell subset distribution in a cohort of East African commercial sex workers: retrospective analysis.* **AIDS.** 2012 Jan 28;26(3):387-93.
19. Luo M, Daniuk CA, Diallo TO, Capina RE, **Kimani J**, Wachih C, Kimani M, Bielawny T, Peterson T, Mendoza MG, Kiazyk S, Ball TB, Plummer FA. *For protection from HIV-1 infection, more might not be better: a systematic analysis of HIV Gag epitopes of two alleles associated with different outcomes of HIV-1 infection.* **J Virol.** 2012 Jan; 86(2):1166-80.
20. McKinnon LR, Nyanga B, Chege D, Izulla P, Kimani M, Huibner S, Gelmon L, Block KE, Cicala C, Anzala AO, Arthos J, **Kimani J**, Kaul R. *Characterization of a human cervical CD4+ T cell subset coexpressing multiple markers of HIV susceptibility.* **J Immunol.** 2011 Dec 1;187(11):6032-42.
21. Liang B, Luo M, Scott-Herridge J, Semeniuk C, Mendoza M, Capina R, Sheardown B, Ji H, **Kimani J**, Ball BT, Van Domselaar G, Graham M, Tyler S, Jones SJ, Plummer FA. *A comparison of parallel pyrosequencing and sanger clone-based sequencing and its impact on the characterization of the genetic diversity of HIV-1.* **PLoS One.** 2011;6(10):e26745.

22. Burgener A, Rahman S, Ahmad R, Lajoie J, Ramdahin S, Mesa C, Brunet S, Wachihi C, **Kimani J**, Fowke K, Carr S, Plummer F, Ball TB. *Comprehensive proteomic study identifies serpin and cystatin antiproteases as novel correlates of HIV-1 resistance in the cervicovaginal mucosa of female sex workers.* **J Proteome Res.** 2011 Nov 4;**10(11):5139-49.**
23. Kaul R, Cohen CR, Anzala O, **Kimani J.** *Author's reply: Most HIV Transmission in sub-Saharan Africa occurs through sex.* **Am J Reprod Immunol.** 2011 Oct;**66(4):250-1. doi: 10.1111/j.1600-0897.2011.01062.**
24. Abi-Rached L, Jobin MJ, Kulkarni S, McWhinnie A, Dalva K, Gragert L, Babrzadeh F, Gharizadeh B, Luo M, Plummer FA, **Kimani J**, Carrington M, Middleton D, Rajalingam R, Beksac M, Marsh SG, Maiers M, Guethlein LA, Tavoularis S, Little AM, Green RE, Norman PJ, Parham P. *The shaping of modern human immune systems by multiregional admixture with archaic humans.* **Science.** 2011 Oct 7;**334(6052):89-94.**
25. McKinnon LR, Kaul R, **Kimani J**, Nagelkerke NJ, Wachihi C, Fowke KR, Ball TB, Plummer FA. *HIV-specific CD8(+) T-cell proliferation is prospectively associated with delayed disease progression.* **Immunol Cell Biol.** 2011 May 24.
26. Schellenberg JJ, Links MG, Hill JE, Dumonceaux TJ, **Kimani J**, Jaoko W, Wachihi C, Mungai JN, Peters GA, Tyler S, Graham M, Severini A, Fowke KR, Ball TB, Plummer FA. *Molecular definition of vaginal microbiota in East African commercial sex workers.* *Appl Environ Microbiol.* 2011 Jun;**77(12):4066-74.**
27. Kaul R, Cohen CR, Chege D, Yi TJ, Tharao W, McKinnon LR, Remis R, Anzala O, **Kimani J.** *Biological factors that may contribute to regional and racial disparities in HIV prevalence.* **Am J Reprod Immunol.** 2011 Mar;**65(3):317-24**
28. Su RC, Sivro A, **Kimani J**, Jaoko W, Plummer FA, Ball TB. *Epigenetic control of IRF1 responses in HIV-exposed seronegative versus HIV-susceptible individuals.* **Blood.** 2011 Mar 3;**117(9):2649-57.**
29. Richmond M, McKinnon LR, Kiazzyk SA, Wachihi C, Kimani M, **Kimani J**, Plummer FA, Ball TB. *Epitope mapping of HIV-specific CD8+ T cell responses by multiple immunological readouts reveals distinct specificities defined by function.* **J Virol.** 2011 Feb;**85(3):1275-86.**
30. Songok EM, Osero B, McKinnon L, Rono MK, Apidi W, Matey EJ, Meyers AF, Luo M, **Kimani J**, Wachihi C, Ball BT, Plummer FA, Mpoke S. *CD26/dipeptidyl peptidase IV (CD26/DPPIV) is highly expressed in peripheral blood of HIV-1 exposed uninfected female sex workers.* **Virol J.** 2010 Nov 25;**7:343.**

31. Lester Richard T; Ritvo Paul; Mills Edward J; Kariri Antony; Karanja Sarah; Chung Michael H; Jack William; Habyarimana James; Sadatsafavi Mohsen; Najafzadeh Mehdi; Marra Carlo A; Estambale Benson; Ngugi Elizabeth; Ball T Blake; Thabane Lehana; Gelmon Lawrence J; **Kimani J**; Ackers Marta; Plummer Francis A. *Effects of a mobile phone short message service on antiretroviral treatment adherence in Kenya (WelTel Kenya1): a randomised trial.* **Lancet** 2010;**376(9755):1838-45.**
32. Horton R E; McLaren P J; Fowke K; **Kimani J**; Ball T Blake. *Cohorts for the study of HIV-1-exposed but uninfected individuals: benefits and limitations.* **The Journal of infectious diseases** 2010;**202 Suppl 3():S377-81.**
33. McLaren Paul J; Ball T Blake; Wachihi Charles; Jaoko Walter; Kelvin David J; Danesh Ali; **Kimani J**; Plummer Francis A; Fowke Keith R. *HIV-exposed seronegative commercial sex workers show a quiescent phenotype in the CD4+ T cell compartment and reduced expression of HIV-dependent host factors.* **The Journal of infectious diseases** 2010;**202 Suppl 3():S339-44.**
34. Price Heather; Lacap Philip; Tuff Jeff; Wachihi Charles; **Kimani J**; Ball Terry B; Luo Ma; Plummer Francis A. *A TRIM5alpha exon 2 polymorphism is associated with protection from HIV-1 infection in the Pumwani sex worker cohort.* **AIDS (London, England)** 2010;**24(12):1813-21.**
35. Bandewar Sunita V S; **Kimani Joshua**; Lavery James V. *The origins of a research community in the Majengo Observational Cohort Study, Nairobi, Kenya.* **BMC public health** 2010;**10:630.**
36. Chege Duncan; Chai Yijie; Huibner Sanja; McKinnon Lyle; Wachihi Charles; Kimani Makubo; Jaoko Walter; **Kimani J**; Ball T Blake; Plummer Francis A; Kaul Rupert; Rebbapragada Anuradha. *Evaluation of a quantitative real-time PCR assay to measure HIV-specific mucosal CD8+ T cell responses in the cervix.* **PloS one** 2010;**5(10):e13077.**
37. Lavery J, Bandewar S, **Kimani J**, Upshur RG, Plummer FA, Singer P A. *Relief of oppression': An organizing principle for researchers' obligations to participants in observational studies in the developing world.* **BMC Public Health** 2010, **10:384doi:10.1186/1471-2458-10-384, 30 June 2010**
38. Ji H, Ball TB, Ao Z, **Kimani J**, Yao X, Plummer FA. *Reduced HIV-1 long terminal repeat transcription in subjects with protective interferon regulatory factor-1 genotype: A potential mechanism mediating resistance to infection by HIV-1.* **J Infect Dis.** 2010 January 26. Epub ahead of print. **Scandinavian journal of infectious diseases** 2010;**42(5):389-94.**

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Supervisory Experience

1. Samuel Waweru Mwaniki :- Msc TID; University of Nairobi- 2011
Project Title: Treatment practices for sexually transmitted diseases by health care workers in pharmacies and health facilities in Mtwapa-Shanzu area, Coast Province, Kenya
2. Festus M. Kiogora: Msc in Biometry; University of Nairobi- 2009
Project Title: Modeling of CD4+ counts change and the time from care to ART uptake in the cell phone study MCH clinic
3. Irene Nyambura Njuguna: Msc TID; University of Nairobi- 2009
Project Title: Prevalence of substance use, alcohol abuse and association with high risk sexual behaviors among sex workers enrolled at the sex workers outreach program (SWOP) clinic in Nairobi, Kenya
4. Josephine W. Muiruri: Msc TID; University of Nairobi- 2009
Project Title: Adherence to highly active antiretroviral therapy among female sex workers accessing HIV care in two clinics in Nairobi, Kenya; “A knowledge, attitudes and practices study”
5. Flora Kokwaro:- Msc TID; University of Nairobi- 2009
Project Title: Prevalence and Determinants of HIV and Sexually Transmitted Infections among Female Sex Workers in Nairobi, Kenya

MEMBERSHIP TO ORGANIZATIONS

- a. Member; International AIDS society.
- b. Member, Kenya Medical Association (HIV/AIDS Committee)
- c. Member: FP/VCT services integration working group
- d. Member: Reproductive Health/HIV Working Group- Ministry of Health, Kenya
- e. Member: Ministry of Health – MARPS technical working group
- f. Steering Committee member: Canada-Africa Prevention Trials (CAPT) Network

Current Research Interests

- Epidemiology and immunobiology of STIs,
- Role of targeted interventions among sex workers in HIV control
- Mechanisms of HIV resistance among HEPS sex workers in Nairobi Kenya
- Effects of RH- VCT & PMTCT integration into the wider, HIV prevention, care and delivery systems in Kenya
- Impact of Antiretroviral Therapy (ART) on the clinical and immunological interactions between HIV-1 and malaria
- Role of bioethics and research in Africa
- Ongoing search for efficacious products for the management of malaria and Intermittent Preventive Treatment of Malaria infection in pregnant women