

**BIOGRAPHICAL SKETCH**

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NAME: NACHEGA, Jean B

eRA COMMONS USERNAME (credential, e.g., agency login): JNACHEGA

POSITION TITLE: Associate Professor

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University of Namur, Belgium	BS	06/1985	Biochemistry
Catholic University of Louvain, Brussels, Belgium	MD	06/1989	Medicine & Internal Medicine Residency & Infectious Diseases Fellowship
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA	MPH	05/1999	Epidemiology & International Health
London School of Hygiene & Tropical Medicine, London, UK	DTMH	04/2000	Tropical Medicine
University of Cape Town, Cape Town, South Africa	PhD	04/2008	Clinical Pharmacology
Harvard School of Public Health, Boston, MA, USA	Fellowship	03/2010	John Mc Goldrick Fellow, Center for Biostatistics in AIDS Research (CBAR)

**A. Personal Statement**

I am Professor Extraordinary of Medicine within the Division of Infectious Diseases, Department of Medicine at Stellenbosch University. I am also a tenured Associate Professor of Epidemiology, Infectious Diseases and Microbiology at University of Pittsburgh and an Adjunct Associate Professor of International Health and Epidemiology at Johns Hopkins Bloomberg School of Public Health. I have more than 30 years of experience in HIV/AIDS care, education, and research and program implementation funded by NIH/NIAID, HRSA, PEPFAR, EDCTP and Wellcome Trust. I am a lead HIV Investigator within the NIH/NIAID-supported AIDS Clinical Trial Group (ACTG), an ad hoc consultant at WHO, CDC, Bill and Melinda Gates Foundation, and a member of both the Academy of Sciences of South Africa (ASSAf) and the African Academy of Science (AAS). I have authored more than 170 peer-reviewed publications, including several in top-tier Journals such as *The New England Journal of Medicine*, *JAMA*, *The Lancet*, *Annals of Internal Medicine*, and *PloS Medicine*. I serve on the Editorial Board of the journal *JAIDS* and over the last seven years, I have been recruited to serve on 15 NIH expert panel grant review panels (called "study sections"). I served as PI on major medical education and research capacity building grants such as the 5-year US\$10 Million PEPFAR Medical Education Partnership Initiative (MEPI) and the 5-year £6 Million Wellcome Trust Southern African Consortium for Research Excellence (SACORE). I am also PI of an NIH-Fogarty supported HIV-comorbidities (CVD, CKD, Neuropsychiatry) training program at Stellenbosch Univ., Cape Town, South Africa.

**B. Positions and Honors****Positions and Employment**

1999 – 2001      Research Associate, International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA

2001 – 2007      Assistant Scientist, International Health, Johns Hopkins Bloomberg School of Public

2007 – 2012	Health, Baltimore, MD Associate Scientist, International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA
2009 - 2010	John McGoldrick Senior Research Fellow, Biostatistics, Harvard School of Public Health, Boston, MA, USA
9/1/2012 - Present	Associate Professor, Epidemiology, Pittsburgh University, Pittsburgh, PA, USA
10/1/2012 - Present	Adjunct Associate Professor, Epidemiology and International Health, Johns Hopkins University, Baltimore, MD, USA
2008 - Present	Professor Extraordinary, Medicine, Stellenbosch University, Cape Town, South Africa
2008 - Present	Honorary Professor, Medicine, University of Cape Town, Cape Town, South Africa
2009 - Present	Visiting Professor, Medicine, University of Liege, Liege, Belgium

### **Other Experience and Professional Memberships**

1999 - Present	Member, Infectious Diseases Society of America (IDSA)
1999 - Present	Member & Chair on Annual Scientific Program Committee, American Society of Tropical Medicine and Hygiene (ASTMH)
2003 - Present	Member, Southern Africa HIV Clinician Society (SAHIVSOC)
2007 - Present	Member, International AIDS Society (IAS)
2008 - Present	Member, International Association of Providers of AIDS Care (IAPAC)
2008 – Present	Member Elect, Academic of Sciences of South Africa (ASSAF)
2014 - Present	Fellow Royal College of Physicians (FRCP), Edinburg, UK

### **Honors**

1983	BS, <i>Magna Cum Laude</i>
1989	MD, <i>Cum Laude</i>
1998	Stelios M. Stelson Scholarship Award Toward Tuition to Complete the MPH Program, Johns Hopkins School of Hygiene and Public Health, Baltimore, MD
1999	Recognition Award for Outstanding Services, Johns Hopkins University, MPH Program, Baltimore, MD
2008	Member Elect, Delta Omega Public Health Honor Society, Johns Hopkins Univ. Baltimore, MD
2009	John McGoldrick Senior Fellowship Award, Biostatistics in AIDS Research, Harvard Univ, Boston, MA
2015	AIDS Journal Highly cited award in 2014: Clinical Science. Nachega et al. AIDS 2012 Oct 23;26 (16):2039-52. PMID: 22951634.
2016	Stellenbosch University Vice-Chancellor/Rector Strategic Faculty Fund Award for Scientific Excellence

### **C. Contribution to Science**

**1. Building health research and academic infrastructure in Africa:** I have led or participated in several initiatives to create and expand critical academic leadership within the African continent. These projects include support, mentoring and development of young investigators within African universities and medical centers, and to develop and expand research infrastructure.

- a) **Nachega JB**, Uthman OA, Ho YS, Lo M, Anude C, Kayembe P, Wabwire-Mangen F, Gomo E, Sow PS, Obike U, Kusiaku T, Mills EJ, Mayosi BM, Ijsselmuiden C. Current status and future prospects of epidemiology and public health training and research in the WHO African region. *International Journal of Epidemiology*. 2012 Dec; 41 (6):1829-46. PMID: PMC3535755.
- b) Mandala WL, Cowan FM, Lalloo DG, Wilkinson RJ, Kelly P, Chidzonga MM, Michelo C, Gomo E, Bailey R, Simuyemba M, Musonda R, Nyirenda M, **Nachega JB**. Southern Africa consortium for research excellence (SACORE): successes and challenges. *The Lancet Glob Health* Dec 2014; 2(12): e691-2
- c) Rwandan Research and Implementation Writing Group. Building health research infrastructure in Rwanda. *The Lancet Global Health*. 2014 Jan; 2(1):e9-e10.
- d) Mash RJ, de Villiers MR, Moodley K, **Nachega JB**. Guiding the development of family medicine training in Africa through collaboration with the Medical Education Partnership Initiative. *Academic Medicine: Journal*

of The Association of American Medical Colleges. 2014 Aug; 89 (8 Suppl):S73-7.

## 2. Setting the Stage for Control of COVID-19 in Africa:

- a) Abena PM, Decloedt EH, Bottieau E, Suleman F, Adejumo P, Sam-Agudu NA, Muyembe TamFum JJ, Seydi M, Eholie SP, Mills EJ, Kallay O, Zumla A, **Nachega JB**. Chloroquine and Hydroxychloroquine for the Prevention or Treatment of Novel Coronavirus Disease (COVID-19) in Africa: Caution for Inappropriate Off-Label Use in Healthcare Settings. *Am J Trop Med Hyg*. 2020 Apr 22;102(6):1184-8. doi: 10.4269/ajtmh.20-0290. Online ahead of print.
- b) **Nachega JB**, Seydi M, Zumla A. The Late Arrival of COVID-19 in Africa - Mitigating Pan-Continental Spread. *Clin Infect Dis*. 2020 Mar 30: ciaa353. doi: 10.1093/cid/ciaa353.
- c) **Nachega JB**, Sam-Agudu NA, Mellors JW, Zumla A, Mofenson LM. Scaling Up Covid-19 Vaccination in Africa - Lessons from the HIV Pandemic. *N Engl J Med*. 2021 Jul 15;385(3):196-198.
- d) **Nachega JB**, Grimwood A, Mahomed H, Fatti G, Preiser W, Kallay O, Mbala PK, Muyembe JT, Rwagasore E, Nsanzimana S, Ngamije D, Condo J, Sidat M, Noormahomed EV, Reid M, Lukeni B, Suleman F, Mteta A, Zumla A. From Easing Lockdowns to Scaling-Up Community-Based COVID-19 Screening, Testing, and Contact Tracing in Africa - Shared Approaches, Innovations, and Challenges to Minimize Morbidity and Mortality. *Clin Infect Dis*. 2020 May 31: ciaa695. doi: 10.1093/cid/ciaa695. Online ahead of print

**3. Developing and Implementing International Guidelines to Optimize HIV Continuum of Care to Achieve UNAIDS 95-95-95 targets by 2030.** In 2012, I was Chair of the **NIH Office of AIDS Research (OAR)**-sponsored international guidelines to optimize Linkage, Adherence and Retention in HIV Care of International Association of Physicians in AIDS Care (IAPAC) Expert Panel, published in *Annals of Internal Medicine*; and in 2016, member of the **Bill and Melinda Gates Foundation Expert Panel** on HIV Treatment Adherence Recommendations published in *Journal of International AIDS Society* in 2017

- a) Thompson MA, Mugavero MJ, Amico KR, Cargill VA, Chang LW, Gross R, Orrell C, Altice FL, Bangsberg DR, Bartlett JG, Beckwith CG, Dowshen N, Gordon CM, Horn T, Kumar P, Scott JD, Stirratt MJ, Remien RH, Simoni JM, **Nachega JB**. Guidelines for improving entry into and retention in care and antiretroviral adherence for persons with HIV: evidence-based recommendations from an International Association of Physicians in AIDS Care panel. *Annals of internal medicine*. 2012 Jun 5; 156 (11):817-33.
- b) Haberer JE, Sabin L, Amico KR, Orrell C, Galárraga O, Tsai AC, Vreeman RC, Wilson I, Sam-Agudu NA, Blaschke TF, Vrijens B, Mellins CA, Remien RH, Weiser SD, Lowenthal E, Stirratt MJ, Sow PS, Thomas B, Ford N, Mills E, Lester R, **Nachega JB**, Bwana BM, Ssewamala F, Mbuagbaw L, Munderi P, Geng E, Bangsberg DR. Improving antiretroviral therapy adherence in resource-limited settings at scale: a discussion of interventions and recommendations. *J Int AIDS Soc*. 2017 Mar 22;20(1):1-15.

### Complete List of Published Work in MyBibliography:

<https://pubmed.ncbi.nlm.nih.gov/?term=nachega>

## **D. Additional Information: Research Support and/or Scholastic Performance Current Grant Support**

**R21 TW011706-01**

**MPI: NACHEGA, J.B. (contact) & KENGNE A.P.**

NIH-Fogarty

04/30/2019 - 03/31/2024

\$296,746.00

1.56 cal

**Title: Cardiometabolic Outcomes, Mechanisms, and approach to prevention of Dolutegravir Associated Weight Gain in South Africa**

**Goal:** The proposed 12-month prospective cohort study of people living with HIV (PLWH) in South Africa will inform appropriate weight gain prevention strategies in preparation for dolutegravir (DTG) scale-up as the backbone for the next generation of antiretroviral therapy in Africa. The specific aims are: 1) To assess the effects of switching to a DTG-based ART regimen on body composition, ectopic fat deposition, and cardiometabolic profile for PLWH; 2) To explore potential mechanisms of DTG-associated weight gain by measuring changes in orexigenic and anorexigenic hormone levels in response to glucose among PLWH who switch to a DTG-based ART regimen; 3) To adapt the South African Diabetes Prevention Package (SA-DPP) for PLWH and assess its acceptability and feasibility.



**WT08753MA (Kumwenda)**

03/15/2010 – 03/30/2015

**Wellcome Trust**

**Southern Africa Consortium for Research Excellence (SACORE)**

SACORE aimed to contribute to reversing this trend by establishing a vibrant environment to support training and research in southern Africa. This goal was to be achieved by building a critical mass of Masters, PhD, and post-doctoral scientists, developing strong leadership in research, setting up attractive career pathways, and developing comprehensive research management and support systems.

Role: PI