

# CURRICULUM VITAE FOR TINASHE CHIKOWORE

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## PERSONAL SUMMARY

D.O.B	05-02-84
Sex	Male
Marital status	Married
Nationality	Zimbabwean
Religion	Christianity (Seventh Day Adventist)
Passport Number	FN368098
SA Status	Permanent Resident

## EDUCATION

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**PhD Nutrition : North West University** **July 2014-Dec 2016**  
Thesis: "Genetic and dietary determinants of type 2 diabetes in a black South African population."

**MSc Nutrition :North-West University (*Passed with distinction*)** **Jan 2013-May 2014**  
Dissertation: "Evaluation of common variants associated with type 2 diabetes in a black South African population."

**BSc Hons Nutrition North-West University** **Feb 2012-Dec 2012**  
Mini Dissertation: Association of A443T and C679X PCSK9 polymorphism with LDL Cholesterol levels amongst black South African population undergoing nutrition transition: PURE STUDY

**BSc Nutrition University of Zimbabwe** **Aug 2003-Oct 2006**

## HONOURS AND AWARDS

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2021 American Society of Human Genetics (ASHG) **Charles J. Epstein Trainee Awards for Excellence in Human Genetics Research** (2000.00 USD). **Oct 2021**

**Wellcome Trust International Training Fellow (£224 223.00)** **Feb 2019 – Feb 2022**  
Project: - Characterisation of gene-lifestyle interactions associated with obesity in African populations

Summary: This study is nested in the H3Africa CVD working group, the most extensive resource (~55 000 participants) with genetic and environmental factors on the African continent. Gene-lifestyle interactions for obesity will be determined using approaches that include analysis of variance heterogeneity, machine learning algorithms, trans-ethnic GWAS meta-analysis and longitudinal modelling. Smoking, sleep, diet, physical activity, and alcohol are the lifestyle factors considered in this study. Transferability of the Afrocentric gene-lifestyle interactions in Europeans, Asians and Africans in the diaspora will be evaluated.

**Conferred Golden Key International Honour Society Membership by the North-West University, Potchefstroom Chapter.** Mar 2017

-Nominated for lifetime membership given academic achievement and regarded to be in the top 15% of my degree program PhD in Nutrition

**Best Oral Presentation**

Southern African Human Genetics Congress, The NEXT Generation, 16-19 August 2015, Pretoria **Aug 2015**

**Best Oral Presentation by a Young researcher**

Southern African Human Genetics Congress (SASHG) 6-9 October 2013, Maslow Hotel, Johannesburg **Aug 2013**

## RESEARCH EXPERIENCE

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**Researcher/Wellcome Trust Training Fellow**

Developmental Pathways of Health Research Unit (DPHRU) at Witwatersrand University and **Sydney Brenner Molecular Institute of Biosciences**. Wellcome Trust trainee fellowship grant funded post hosted at University of Witwatersrand, Lund University ,Sweden and Manchester University in UK. This project seeks to characterise gene-lifestyle interactions associated with obesity. I analyse data. write manuscripts and supervise postgraduate students.

**Feb 2019-present**

**Postdoctoral Research Fellow/Research Coordinator**

Division of Human Genetics and Developmental Pathways of Health Research Unit (DPHRU) at Witwatersrand University

**Jan 2017- Jan 2019**

- **Research Project at DPHRU: Determinants of Type 2 Diabetes: the role of sex hormones in middle age black South African men and women.**
  - As the project coordinator, I supervised participant recruitment, data collection and lab analysis.
  - We utilised Food Frequency questionnaires to evaluate dietary intake in 1000 males and females residing in Soweto.

- The project team comprised of 2 PhD students, 2 MSc students, 1 lab technician, 1 DXA technician, 2 nurses and one research assistant
- **Research Project at Division of Human Genetics:** - Development of polygenic risk scores for cardiometabolic risk prediction: AWIGEN Study

**Research Assistant.**

Research Commons, North-West University

**Feb 2014 – July 2014**

- Managing the Research Commons activities, providing technical assistance and assisting graduate students in retrieving relevant journal articles

**Research Assistant**

Centre of Excellence in Nutrition, North-West University

**Jan 2012 – Dec 2015**

- Assisted in conducting a literature search for nutrition reviews
- Participated in the *Sustainable Nutrition Research for Africa (SUNRAY)* project, which aimed to set the nutrition research agenda for Africa in the years to come.

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**INTERNATIONAL AND REGIONAL COLLABORATIVE RESEARCH**

**American Diabetes Association (ADA) Precision Medicine Initiative. Role:** 2019 -present

*Working in the Type 2 diabetes precision prognostics group to write systematic reviews that will be used to come up with the ADA consensus reports regarding precision medicine for diabetes*

**GIANT: Genetic Investigation of ANthropometric Traits Consortium.** 2020-present

This is an international consortium leading out in the research of the genetic determinants of anthropometric traits in global populations. **Role:** *Member of the Fine mapping and Trans ancestry Meta-analysis working group*

**Human Hereditary and Health (H3Africa).** 2019 -present

**Cardiovascular working group.** *I co-lead the data harmonization team of this working group comprising the cohorts (55000 participants) in H3Africa that have cardiometabolic phenotypes. Lead-out and participate in manuscript writing.*

**The African Computational Genomics (TACG) Research group.** 2020-present  
*I am a Partner. I help supervise 3 PhD students, 3 Postdocs, 3 Interns and lead out in data analysis and manuscript writing*

**Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium. Gene-lifestyle working group.** 2021-present  
*I lead out in the writing up and analysis of the Physical Activity and Anthropometry interaction paper*

**CARDiometabolic Disorders IN African-ancestry PopuLations (CARDINAL) Study Site.** 2021-present  
*I am member of the Methods evaluation and development group.*

## PLANNED RESEARCH

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My current research work focuses on understanding the interlay of genetics and lifestyle factors in the etiology of cardiometabolic traits. My current and planned research can be split into three key areas indicated below:-

1. **Genetic prediction :** Developing and evaluating polygenic risk scores for cardiometabolic traits. Casual inference using mendelian randomisation
2. **Basic Research:** Utilising Recall by genotype study designs and techniques which include microbiome analysis, metabolomics, polygenic risks scores and machine learning to understand mechanisms behind nutrition and sex differences in body composition of black South Africa men and women

## FUNDING OBTAINED( GRANTS, FELLOWSHIPS & BURSARIES) (TOTAL ~ R5.8MILLION (DIRECT); R77.5MILLION (COLLABORATIVE))

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CARDiometabolic Disorders IN African-ancestry PopuLations (CARDINAL) Study Site (NIH, USD 5 000 000) Role: Significant Contributor	June 2021 – June 2025
Wellcome Trust International Training Fellowship (£224 223.00) Role: PI	Feb 2019 – Jan 2022
Postdoctoral fellowship NRF Wits Centre of Excellence in Mathematical and Statistical Sciences (R420 000.00) Wits/MRC Postdoctoral fellowship (R200 000.00)	Jan 2017- Dec 2018

H3A/ SANBio Short Term bioinformatics training scholarship at Sydney Brenner Molecular Institute of Biosciences (SBIMB), Wits University (USD 3000.00)	Feb 2016- June -2016
North-West University International Student PhD Research Bursary (Scarce Skills) (R120 000.00)	Feb 2015 - Dec 2016
National Research Foundation (NRF) of South Africa Doctoral Innovation Bursary (R310 000.00)	Jan 2014 – Dec 2016
North-West University PhD Bursary (Scarce Skills) (R 75 000.00)	July 2014 – Dec 2016
North-West University International Student MSc Bursary (R 45 000.00)	Feb 2013 - Dec 2014
North-West University MSc Research Bursary (Scarce Skills) (R30 000.00)	Feb 2013 - Dec 2014
North-West University BSc Honours Bursary (Scarce Skills) (R17 000.00)	Feb 2012 – Dec 2012

## **TEACHING EXPERIENCE & PHILOSOPHY**

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<b>Wellcome Trust Advance Courses: Human Genetic Epidemiology Asia</b>	<b>June 13-17 June 2022</b>
<ul style="list-style-type: none"> <li>• <b>Taught modules for :</b> <ul style="list-style-type: none"> <li>○ Genome wide association studies (GWAS) Meta-analysis and Replication</li> <li>○ Polygenic Risk Scores</li> </ul> </li> </ul>	
<b>Msc Genomic Medicine: Division of Human Genetics, Wits SA</b>	<b>Jan 2022-</b>
<ul style="list-style-type: none"> <li>• <b>Taught modules for :</b> <ul style="list-style-type: none"> <li>○ Polygenic Risk Scores</li> </ul> </li> <li>• Supervised Human Genetics Msc Students research projects</li> </ul>	
<b>Bsc Hons Genetics: Division of Human Genetics, Wits SA</b>	<b>Jan 2017-Jan 2019</b>
<ul style="list-style-type: none"> <li>• Taught gene-lifestyle interactions lectures to Human Genetics Honours Students</li> <li>• Supervised Human Genetics Honours Students research projects</li> </ul>	

## Postgraduate Student Supervision

### *Bioinformatics related topics*

MSc: - Vutomi Mahomani, North-West University	Completed
PhD: - Monica Muti, Wits University	2019- 2022
BscHons: Parusha Naidoo, Wits University	Completed
PhD: - Richard Mayanja, Makerere University	2020-2022
PhD: - Christopher Kintu, Makerere University	2020-2022
Msc: Bontle Masango, Wits University	2022-2022

## External Examiner (Msc Bioinformatics, Makerere University Uganda)

Msc Bioinformatics: Bevin Bataringaya, Makerere University, Uganda	2022
Msc Bioinformatics: Herbert Agasi, Makerere University, Uganda	2022
Msc Bioinformatics: Peter Sebakaki, Makerere University, Uganda	2022
Msc Bioinformatics: Kiyaga Shahid, Makerere University, Uganda	2022

## Teaching Philosophy

In general, my teaching philosophy is centered on the following:

- To teach the fundamental principles of genetics and bioinformatics, to make it interesting by incorporating practical examples on the applications of concepts where possible. Everyday examples that students can relate to are preferred. These help students integrate the subject matter with their experiences.
- To try as far as possible to communicate to each student to their level particularly during tutorials and when answering their questions.
- Mutual respects of students which help to build relationships and encourage the students to go extra mile or creates a good learning atmosphere where students are able to express themselves.

## OTHER WORK EXPERIENCE

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### **Nutrition Officer**

Plan International, Chipinge, Zimbabwe

**Nov 2008 – Apr 2009**

- Managing the planning, implementing, and monitoring of the Community Management of Acute Malnutrition (CMAM) programme

### **Nutritionist**

Environment Africa, Zimbabwe

- Overseeing the planning, implementation of agro-based- nutrition initiatives for improving dietary diversity in communities **Oct 2006 – Oct 2008**

## PEER REVIEWED PUBLICATIONS (DE ACCREDITED)

*Journal Publications*(29 papers, 20 of which have Impact Factor > 5 and 2 with Impact factor = 53.44)

1. Kamiza, A.B., Toure, S.M., Vujkovic, M., Machipisa, T., Soremekun, O.S., Kintu, C., Corpas, M., Pirie, F., Young, E., Gill, D., Sandhu, M.S., Kaleebu, P., Nyirenda, M., Motala, A.A., **Chikowore, T.**, and Fatumo, S. (2022). Transferability of genetic risk scores in African populations. *Nature Medicine*. **{Impact Factor 53.44}**
2. **Chikowore, T.**, Ekoru, K., Vujkovi, M., Gill, D., Pirie, F., Young, E., Sandhu, M. S., McCarthy, M., Rotimi, C., Adeyemo, A., Motala, A., & Fatumo, S. (2022). Polygenic Prediction of Type 2 Diabetes in Africa. *Diabetes care*, dc210365. Advance online publication. **{Impact Factor 19.11}**
3. Fatumo S, **Chikowore T**, Choudhury A, Muhammad A, Martin A.R., Kuchenbacker K. Diversity in Genomic studies: A roadmap to address the imbalance. *Nat Med* **28**, 243–250 (2022). **{Impact Factor 53.44}**
4. Adebamowo, C.A., Adeyemo, A., Ashaye, A., Akpa, O.M., **Chikowore, T.**, Choudhury, A., Fakim, Y.J., Fatumo, S., Hanchard, N., Hauser, M., Mitchell, B., Mulder, N., Ofori-Acquah, S.F., Owolabi, M., Ramsay, M., Tayo, B., Vasanthkumar, A.B., Zhang, Y., and Adebamowo, S.N. (2022). Polygenic risk scores for CARDINAL study. *Nat Genet* **54**, 527-530. **{Impact Factor 38.33}**
5. Choudhury, A., Brandenburg, J.T., **Chikowore, T.**, Sengupta, D., Boua, P.R., Crowther, N.J., Agongo, G., Asiki, G., Gomez-Olive, F.X., Kisiangani, I., Maimela, E., Masemola-Maphutha, M., Micklesfield, L.K., Nonterah, E.A., Norris, S.A., Sorgho, H., Tinto, H., Tollman, S., Graham, S.E., Willer, C.J., Study, A.W.-G., Consortium, H.A., Hazelhurst, S., and Ramsay, M. (2022). Meta-analysis of sub-Saharan African studies provides insights into genetic architecture of lipid traits. *Nat Commun* **13**, 2578. **{Impact Factor 14.92}**
6. Tamburini, F. B., Maghini, D., Oduaran, O. H., Brewster, R., Hulley, M. R., Sahibdeen, V., Norris, S. A., Tollman, S., Kahn, K., Wagner, R. G., Wade, A. N., Wafawanaka, F., Gómez-Olivé, F. X., Twine, R., Lombard, Z., H3Africa AWI-Gen Collaborative Centre (**Chikowore T**), Hazelhurst, S., & Bhatt, A. S. (2022). Short- and long-read metagenomics of urban and rural South African gut microbiomes reveal a transitional composition and undescribed taxa. *Nature communications*, **13**(1), 926. **{Impact Factor 14.92}**
7. Kamiza, A.B., Fatumo, S., Singini, M.G., Yeh, C.C., and **Chikowore, T.** (2022). Hepatitis B infection is causally associated with extrahepatic cancers: A Mendelian randomization study. *EBioMedicine* **79**, 104003. **{Impact Factor 8.14}**
8. Soremekun, O., Karhunen, V., He, Y., Rajasundaram, S., Liu, B., Gkatzionis, A., Soremekun, C., Udosen, B., Musa, H., Silva, S., Kintu, C., Mayanja, R., Nakabuye, M., Machipisa, T., Mason, A., Vujkovic, M., Zuber, V., Soliman, M., Mugisha, J., Nash, O., Kaleebu, P., Nyirenda, M., **Chikowore, T.**, Nitsch, D., Burgess, S., Gill, D., and Fatumo, S. (2022). Lipid traits and type 2 diabetes risk in African ancestry individuals: A Mendelian Randomization study. *EBioMedicine* **78**, 103953. **{Impact Factor 8.14}**
9. Kufe, C.N., Micklesfield, L.K., Masemola, M., **Chikowore, T.**, Kengne, A.P., Karpe, F., Norris, S.A., Crowther, N.J., Olsson, T., and Goedecke, J.H. (2022). Increased risk for type

- 2 diabetes in relation to adiposity in middle-aged Black South African men compared to women. *Eur J Endocrinol* 186, 523-533. **{Impact Factor 6.66}**
10. Kufe CN, Goedecke JH, Masemola M, **Chikowore T**, Soboyisi M, Smith A, et al. Physical behaviors and their association with type 2 diabetes mellitus risk markers in urban South African middle-aged adults: an isotemporal substitution approach. *BMJ open diabetes research & care*. 2022;10(4). **{Impact Factor 3.83}**
  11. Goedecke, J. H., Nguyen, K. A., Kufe, C., Masemola, M., **Chikowore, T.**, Mendham, A. E., Norris, S. A., Crowther, N. J., Karpe, F., Olsson, T., Kengne, A. P., & Micklesfield, L. K. (2022). Waist circumference thresholds predicting incident dysglycaemia and type 2 diabetes in Black African men and women. *Diabetes, obesity & metabolism*, 10.1111/dom.14655. **{Impact Factor 6.57}**
  12. Fatumo, S., **Chikowore, T.**, & Kuchenbaecker, K. (2022). Editorial: Genetics of Complex Traits and Diseases From Under-Represented Populations. *Frontiers in genetics*, 12, 817683. **{Impact Factor 3.79}**
  13. Nakabuye, M., Kamiza, A.B., Soremekun, O., Machipisa, T., Cohen, E., Pirie, F., Nashiru, O., Young, E., Sandhu, M.S., Motala, A.A., **Chikowore, T.**, and Fatumo, S. (2022). Genetic loci implicated in meta-analysis of body shape in Africans. *Nutr Metab Cardiovasc Dis*.
  14. Udosen B, Soremekun O, Ekenna C; Idowu O, **Chikowore T**, Nashiru O, Fatumo S. (2021). In-silico Analysis Reveals Druggable Single Nucleotide Polymorphisms in Angiotensin 1 Converting Enzyme Involved in the Onset of Blood Pressure. *BMC research notes*, 14(1), 457. **{Impact Factor 1.66}**
  15. Soremekun O, Soremekun C, Machipisa T, Soliman M, Nashiru O, **Chikowore T**, Fatumo S. (2021). Genome-wide association and Mendelian Randomization Analysis Reveals the Causal Relationship between White Blood Cell Subtypes and Asthma in Africans. *Frontiers in genetics*, 12, 749415. **{Impact Factor 3.79}**
  16. Ratshikombo T, Goedecke J.H., Soboyisi M, Kufe C, Makura-Kankwende, C.B.T, Masemola M, Micklesfield L.K, **Chikowore T**. (2021).Sex Differences in the Associations of Nutrient Patterns with Total and Regional Adiposity: A Study of Middle-Aged Black South African Men and Women. *Nutrients*, 13(12), 4558. **{Impact Factor 5.71}**
  17. G, Said-Mohamed R, Nyati LH, Mpondo F, **Chikowore T**, Prioreschi A, et al. Stunting in infancy, pubertal trajectories and adult body composition: the Birth to Twenty Plus cohort, South Africa. *Eur J Clin Nutr*. 2021;75(1):189-97. **{Impact Factor 4.02}**
  18. **Chikowore T**, Kamiza AB, Oduaran OH, Machipisa T, Fatumo S. Non-communicable diseases pandemic and precision medicine: Is Africa ready? *EBioMedicine*. 2021;65:103260. **{Impact Factor 8.14}**
  19. Fatumo S, **Chikowore T**, Kalyesubula R, Nsubuga RN, Asiki G, Nashiru O, et al. Discovery and fine-mapping of kidney function loci in first genome-wide association study in Africans. *Hum Mol Genet*. 2021. **{Impact Factor 6.15}**
  20. Fatumo S, Karhunen V, **Chikowore T**, Souunkou T, Udosen B, Ezenwa C, et al. Metabolic Traits and Stroke Risk in Individuals of African Ancestry: Mendelian Randomization Analysis. *Stroke*. 2021:STROKEAHA121034747. **{Impact Factor 7.91}**
  21. Soremekun OS, Ezenwa C, Soliman M, **Chikowore T**, Nashiru O, Fatumo S. Transcription- translation error: In-silico investigation of the structural and functional impact of deleterious single nucleotide polymorphisms in GULP1 gene. *Inform Med Unlocked*. 2021;22. **{Impact Factor 3.73}**



22. Makura-Kankwende CBT, Gradidge PJ, Crowther NJ, Norris SA, **Chikowore T**. Nutrient Patterns and Body Composition Parameters of Black South African Women. *Nutrients*. 2020;13(1) {**Impact Factor 5.71**}
23. **Chikowore T**, Sahibdeen V, Hendry LM, Norris SA, Goedecke JH, Micklesfield LK, et al. C679X loss-of-function PCSK9 variant is associated with lower fasting glucose in black South African adolescents: Birth to Twenty Plus Cohort. *J Clin Transl Endocrinol*. 2019;16:100186. {**Impact Factor 2.26**}
24. Kufe NC, Masemola M, **Chikowore T**, Kengne AP, Olsson T, Goedecke JH, et al. Protocol for systematic review and meta-analysis of sex hormones and diabetes risk in ageing men and women of African ancestry. *BMJ Open*. 2019;9(1):e024446. {**Impact Factor 2.69**}
25. **Chikowore T**, Cockeran M, Conradie KR, van Zyl T. C679X loss-of-function PCSK9 variant lowers fasting glucose levels in a black South African population: A longitudinal study. *Diabetes research and clinical practice*. 2018;144:279-85. {**Impact Factor 5.60**}
26. Cronje HT, Nienaber-Rousseau C, Zandberg L, **Chikowore T**, de Lange Z, van Zyl T, et al. Candidate gene analysis of the fibrinogen phenotype reveals the importance of polygenic co-regulation. *Matrix Biol*. 2017;60-61:16-26. {**Impact Factor 11.58**}
27. **Chikowore T**, Pisa PT, van Zyl T, Feskens EJ, Wentzel-Viljoen E, Conradie KR. Nutrient Patterns Associated with Fasting Glucose and Glycated Haemoglobin Levels in a Black South African Population. *Nutrients*. 2017;9(1). {**Impact Factor 5.71**}
28. **Chikowore T**, van Zyl T, Feskens EJ, Conradie KR. Predictive utility of a genetic risk score of common variants associated with type 2 diabetes in a black South African population. *Diabetes research and clinical practice*. 2016;122:1-8. {**Impact Factor 5.60**}
29. **Chikowore T**, Conradie KR, Towers GW, van Zyl T. Common Variants Associated with Type 2 Diabetes in a Black South African Population of Setswana Descent: African Populations Diverge. *Omics: a journal of integrative biology*. 2015;19(10):617-26. {**Impact Factor 3.37**}

### ***Conference Papers***

(Abstract-Reviewed and published in journals)

1. **Chikowore T**, Chong M, Micklesfield LK, Ramsay M, Franks PW, Pare G, et al., editors. GWAS transethnic meta-analysis of BMI in similar to 700 000 individuals reveals novel gene-smoking interaction in African populations. International Genetic Epidemiology Society, Jul 1-4,2020, Genetic Epidemiology; 2020: John Wiley & Son
2. **Chikowore T**, Mahajan A, Ramsay M, Morris AP, editors. PCSK9 Variants and Type 2 Diabetes Risk in People of African Ancestry: a Meta-analysis Study N=30,000. International Genetic Epidemiology Society, Jul 1-4,2019, Genetic Epidemiology; 2019: John Wiley & Son

(Abstract-Reviewed and published in conference proceedings)

1. **Chikowore T**, Lombard Z, Ramsay M .Bioinformatic analysis of African genetic data to improve prediction of cardiometabolic risk.H3Africa 12<sup>th</sup> Meeting, 16-19 September 2018, Rwanda, Kigali.(Poster Presentation)
2. **Chikowore T**, Conradie KR, and Van Zyl T. Predictive utility of European derived genetic variants associated with type 2 diabetes in a black South African population. European Association for the Study of Diabetes (EASD), Munich, Germany, 12-16 September 2016 (Poster)
3. **Chikowore T**, Conradie KR, Towers GW and Van Zyl T. Evaluation of common variants associated with Type 2 diabetes in the Asian and European ethnicities among a black South African population of Tswana descent. Southern African Human Genetics Congress (SASHG) 16-19 August 2015, Pretoria (**Oral presentation**) (**Won a prize for best oral presentation second place**)
4. **Chikowore T**, Conradie KR and Van Zyl T. Loss-of-function PCSK9 variants associated with sustained reductions in LDL-C levels amongst a black South African population over a 5-year period. Southern African Human Genetics Congress (SASHG) 6-9 October 2013, Maslow Hotel, Johannesburg (**Oral presentation**) (**Won a prize for best oral presentation third place**)

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#### PRESENTATIONS : INVITED LECTURES/PLENARIES INTERNATIONAL AND REGIONAL

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1. Advancing Diversity in Polygenic Risk Scores: TheHuman Heredity and Health in Africa (H3Africa)consortium. **American Heart Association . November 5-7; 2022**
2. Trans-ancestry meta-analysis enhances discovery, fine mapping and polygenic prediction of body mass index in continental Africa. **Plenary Presentation.** American Society of Human Genetics 2021. **Won the Charles J Epstein Excellence in Human Genetics award.**
3. Genetic risk scores and its implication for SDGs in Africa. **Keynote Speaker.** Nigerian Bioinformatics and Genomics Network Conference. Theme: Leveraging Bioinformatics and Genomics for the Attainment of the Sustainable Development Goals (SDGs) in Africa. LandMark University, October 12-13 2021.
4. Webinar, “Polygenic prediction of type 2 diabetes in Africa,” Enabling Genomic Medicine in Africa. AfriPopGen Monthly Webinars, 9 April 2021.

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#### PROFESSIONAL AFFILIATIONS

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American Society of Nutrition	2019-present
Society for Endocrinology, Metabolism and Diabetes of South Africa (SEMSDA)	2017-present
American Society of Human Genetics	2019-present

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#### PROFESSIONAL SERVICE

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**Associate Topical Guest Editor**

Frontiers in Genetics

Topic: Genetics of complex traits and diseases form under-represented populations; 2021

**Congress Sessional Co-Chair**

American Society of Human Genetics, Complex Traits Session, 2020

**International Congress Abstract Reviewer**

American Society of Nutrition, 2019

American Society of Human Genetics 2021

American Society of Human Genetics 2022

**Peer-Reviewed Articles for:**

- European Journal of Clinical Nutrition
- Annals of Human Biology
- BMC Public Health
- Frontiers Oncology
- Diabetes, Obesity and Metabolism
- Frontiers in Genetics
- Frontiers in Immunology
- Human Genetics

**COMMUNITY SERVICE**

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**Guest Nutrition Expert**, Dijo Lo Bophelo, SABC2 TV Program

**OTHER SKILLS AND COMPETENCES**

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- Bioinformatics
- Bash Scripting
- R programming
- Genome wide association study (GWAS) Meta-analysis
- Polygenic Risk Scores
- Longitudinal Data Modelling (R, Stata, SPSS)
- Gene-lifestyle interactions and variance heterogeneity analysis
- Nutritional Epidemiology

## REFERENCES

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### **Prof M Ramsay**

Director

Sydney Brenner Institute of Molecular and Biosciences

University of the Witwatersrand

[michele.ramsay@wits.ac.za](mailto:michele.ramsay@wits.ac.za)

Phone: 0736472726

**Relationship:** *Wellcome Trust Fellowship Sponsor*

### **Prof Z Lombard**

Principal Medical Scientist

Division of Human Genetics

University of Witwatersrand

[zane.lombard@wits.ac.za](mailto:zane.lombard@wits.ac.za)

Phone: 0832494054

**Relationship:** *Post-Doctoral Research Supervisor & Wellcome Trust Fellowship Collaborator*

### **Prof J Goedecke**

Principal Scientist

SAMRC Non-Communicable Disease Research Unit

Cape Town

South Africa

[Julia.Goedecke@mrc.ac.za](mailto:Julia.Goedecke@mrc.ac.za)

Phone: 0828255616

**Relationship:** *Post-Doctoral Research Supervisor & Wellcome Trust Fellowship Collaborator*

### **Prof L Micklesfield**

Deputy Director

SAMRC/Wits Developmental Pathways for Health Research Unit

University of the Witwatersrand

[lisa.micklesfield@wits.ac.za](mailto:lisa.micklesfield@wits.ac.za)

Phone: 0839433172

**Relationship:** *Post-Doctoral Research Supervisor & Wellcome Trust Fellowship Sponsor*