

Dementia and Brain Ageing in LMICs 2024

Final Scientific Programme

3-6 December, 2024
Nairobi, Kenya
All times are in East Africa Time (EAT)

Venue: The Pavilion (unless specified), Safari Park Hotel

Monday, 02 December

8:00 h – 17.15 h **Ambulatory Research in Cognition – Down Syndrome in African Countries:
Kick-off Meeting** (*Pre-Symposium Meeting by invitation only*)

- Welcome and Introductions...

Tuesday, 03 December

8:00 h. – 10:50 h. **READD-ADSP Session I** (*by invitation only*)

- Welcome and Introductions – Dr. Rufus Akinyemi
- DAWN Update – Dr. Margaret Pericak-Vance and Dr. Anthony Griswold
- READD-ADSP site updates (5 minutes each)
 - Established sites
 - **USA:** (Margaret Pericak Vance)
 - **Miami** (Margaret Pericak Vance)
 - **Case** (Jonathan Haines)
 - **Wake** (Goldie Byrd)
 - **Columbia African ancestry** (Christianne Reitz)
 - **Columbia Hispanic** (Giuseppe Tosto)
 - **Ethiopia:** (Yared Zenebe)
 - **Ghana (Acra)**(Ruth Laryea))
 - **Ghana:** (Kumasi)(Shadrack Ossei Asibey))
 - **Kenya:** (Christine Musyimi i
 - **Tanzania:** (Judith Boshe)
 - **Uganda:** (Kamada Lwere)
 - **Mozambique** (Deise Haua Da Silva)

- **Cameroon** (Yembe Njamnshi)
- **Nigeria:**
 - **Ibadan** (Fisayo Elugbadebo)
 - **Lagos** (Njideka Okubadejo)
 - Zaria (Reginald Obiako)
- **DRC:** (Jean Ikanga)

- Introduction to new sites
 - **Tunisia** (Riadh Gouider)
 - **South Africa** (Dana Niehaus)

10:50 h. – 11:15 h **Coffee Break**

11:15 h – 13:00 h **READD-ADSP Session II** (*by invitation only*)

- Guest Speaker: Dr. Eden Martin: GWAS Studies of AD Age-at-Onset (AAO) in US individuals of African Ancestry
- Overview of Community Engagement : Outreach, Recruitment and Retention (ORR) Strategies
 - Community Engagement and Outreach
 - **US African ancestry:** (Goldie Byrd)
 - **Africa:** (Oyedunni Arulogun)
 - **US Hispanic:**
 - **Columbia** (Giuseppe Tosto)
 - **Miami** (Larry Adams)
- Retention Strategies Discussion (Margaret Pericak-Vance and Adesola Ogunniyi)
- Consensus Diagnosis, Adjudication and Harmonization (Jeff Vance, Stella – Maria Paddick and Pedro Mena)
- Projects 1 and 2 Analysis Update (5 min): Will Bush and Giuseppe Tosto

13:00 h – 14:00 h. **LUNCH Break**

14:00 h – 15:00 h **READD - ADSP Africa Session III** (*by invitation only*)

- Biological Sample Management (Larry Adams, Patrice Whitehead, Kazeem Akinwande)
- Genetics and CVD and Plasma Biomarker Updates (Anthony Griswold)
- Manuscripts in Preparation (Rufus Akinyemi and Margaret Pericak-Vance)
- General Discussion, Summary and Wrap Up (Raj Kalaria and Jonathan Haines)

- 15:00 h – 16:00 h **African Dementia Consortium (AfDC) General Assembly**
Chairs: Rufus Akinyemi (Nigeria), David Ndetei (Kenya), Raj Kalaria (UK-Kenya)
- All Welcome!**
- Brief Introductions
 - AfDC Mission statement
 - Projects
 - General Discussion
- 16:00 h – 16:30 h **Tea Break**
- 16:30 h – 17:30 h **I. Welcome and Opening Session**
Welcome address by convenors Gladys Maestre (UTRGV) and Raj Kalaria (UK), followed by opening remarks (~5 min each) by:
Adesola Ogunniyi (AfDC),
Julius Ogeng'o (University of Nairobi),
Mercy Njuguna (MoH Kenya Government),
Claire Sexton (AA,USA),
Zul Merali (BMI AKU, Kenya),
Aida S-Gonzalez (WFN ADCD, UK),
Elizabeth Mutungu (ADOK, Kenya),
David Ndetei (AFRIMEB- local host, Kenya)
Andrew Singelton & Sara Bandres Ciga, Center for Alzheimer's Disease and Related Dementias (CARD), NIA, NIH, USA
- 17:30 h – 18:30 h **Keynote I**
Richard Brown, Dalhousie University, Canada
Unlocking The Mysteries of the Brain: The contributions of Brenda Milner
- Keynote II**
Eliud Kipchoge, Laikipia University, Kenya
Physical Activity, Mental Health and Life
- 18:45 h – 20:45 h **Welcome Reception/Dinner**
Poolside, Safari Park Hotel, Nairobi

Wednesday, 04 December

- 8:00 h – 9:00 h **Survival Skills Breakfast I: Meet the Experts- Mentoring**
One on one time with mentors over breakfast
Chair: Jose Cavazos (USA/Mexico)
Mentors: Adesola Ogunniyi, Peggy Pericak-Vance, Masafumi Ihara, Ingmar Skoog, Njideka Okubadejo
- 9:00 h – 10:30 h **II. Global Burden and Dementia Risk**
An overview of aging and dementia in LMIC across the globe, including cultural considerations, strengths in knowledge, emerging challenges and opportunities for collaboration.
Chairs: Maelenn Guerchet (Benin), Ameenah Sorfen (Mauritius)
Panelist: Adesola Ogunniyi (Nigeria)
- Presenters:**
Cyprian Mostert, Brain and Mind Institute, AKU, Kenya
Brain Economics, Global Cost and Dementia
- Giancarlo Logroscino**, GBD and Center for Neurodegenerative Diseases and Aging Brain, University of Bari, Italy
Global Burden LMICs versus HICs
- Noeline Nakasujja**, Makerere University, Uganda
Aging and Dementia from Ugandan Perspective
- Riadh Gouider, AD Centre**, University of Tunis, Tunisia
FAD in Tunisia and Africa
- Fisayo Elugbadebo (ECR)**, University of Ibadan, Nigeria
Dementia, Cognitive Impairment in Oldest Old Nigerians: A 20-year follow up of survivors of Ibadan Study of Ageing Cohort
- Lingani Mbakile Mahlanza (ECR)**, University of Botswana, Faculty of Social Sciences, Psychology Department, Botswana
TBI and Risk of Dementia in the Botswana population
- 10:30 h – 11:00 h **Coffee Break and Posters**
Poster presentations of submitted abstracts.
- 11:00 h. – 12:30 h **III. Vascular and Emerging Factors in Dementia**
Chairs: Ingmar Skoog (Sweden), Lingani Mahlanza,(Botswana)
- Presenters:**
Thomas Issac, National Institute of Mental Health and Neurosciences, India
Vascular Risk Factors ad Cognitive Decline- An Indian Context
- Majon Muller**, VUmc, Free University of Amsterdam, The Netherlands
Cardiovascular Instability in the elderly and Consequences
- Ingmar Skoog**, Center of Health and Aging (AgeCap), Institute of Neuroscience and Physiology, Sahlgrenska Academy at the University of Gothenburg, Sweden
Preclinical vascular dementia. The H70–studies

Simon Chen, University College London, UK and China
Air Pollution, Cardiovascular Disease and Dementia

Yared Zedwe (ECR), Addis Ababa University, Ethiopia
Vascular Dementia and Risk Factors in Ethiopia, Africa

Chinedu Udeh-Momoh (ECR), Brain and Mind Institute, AKU, Kenya
Cardiometabolic Risk Factors and Cognitive Function: Under-diagnosis and its Association with cognitive impairment and dementia in multi-ethnic African Cohorts in Kenya and Nigeria

12:30 h – 13:00 h

Poster Blitz Session I

Short presentations (2 min) by first or last author of the posters – Session A
(surnames of presenting author from A - Ca)

Chairs: Majon Muller (The Netherlands), Sonu Bhaskar (Japan)

13:00 h – 14:00 h

LUNCH Break

13:00 h – 14:00 h

Networking Lunch I for ECRs: Work and Life Balance

Chair: Jose Cavazos (USA/Mexico)

Mentors: Stella-Maria Paddick (UK), Godwin Ogbole (Nigeria), Morris Freedman (Canada)

Discussions about how PIs survive with relevant representatives over lunch.

13:00 h – 14:00 h

Book Launch and Lunch: Design for Dementia: Living Well at Home

By Bill Halsall, Michael Riley and Eev Hogervorst.

Commenters: Eef Hogervost (UK) and Omar Oropeza (USA/Mexico)

14:00 h – 15:30 h

IV. Biomarkers and Biobanking in Dementia

Chairs: Thomas Issac (India), Elisabet Englund (Sweden)

Presenters:

Jean Ikanga, University of Kinshasa, DRC and Atlanta, USA
Assessing Biomarkers of Dementia in DRC

Henrik Zetterberg, University of Gothenburg, Sweden
Blood Biomarkers: Democratizing Neurodegenerative Disease Diagnostics

Barbara Bendlin, University of Indiana, USA
Neuroimaging: Portable MRI in Dementia

Bernard Fongang, University of Texas Health Sciences San Antonio, Glenn Biggs Institute (USA)/Cameroon
The gut microbiome in preclinical Alzheimer's disease

Oludotun Olalusi (ECR), University of Ibadan, Nigeria
Relationship Between Hand Grip Strength and Cognitive Impairment Amongst Indigenous Elderly Africans in Ibadan, South-West Nigeria: Data from the VALIANT Study

Christopher Musembi (ECR), University of Nairobi, Kenya
Ageing and Dementia: Insights from non-canonical animal models

- 15:30 h – 16:10 h **Vi. Trials in Dementia**
Chairs: Dana Niehaus (South Africa), Peter Hedera (USA)
- Presenters:**
Masafumi Ihara, National Cerebral and Cardiovascular Centre (NCVC), Osaka, Japan
Drug trials in Dementia: Cilostazol in amyloid removal
- Felix Potocnik**, University of Stellenbosch, South Africa
Overview, Policy, Care and Future Directives of South African Dementia Patients
- 16.10 h – 16.40 h **Tea Break and Posters**
Poster presentations of submitted abstracts
- 16:40 h– 18:40 h **Vii. AFRICA-FINGERS LAUNCH**
Chairs: Chinedu Udeh-Momoh (Kenya), Zul Merali (Kenya)
Launch of WW FINGERS-AFRICA Project
[see full programme on a separate page]
- 18:45 h – 21:00 h **Networking Reception** hosted by BMI AKU and Sponsored by The FINGERS Brain Health Institute and WorldWide FINGERS

Thursday, 05 December

- 8:00 h – 9:00 h **Skills Breakfast: Journals and Publishing**
One on one time with global editors from leading dementia journals, over breakfast.
Chair: Jose Cavazos (USA/Mexico)
Mentors: Peter Hedera, Thomas Bak, Dana Niehaus, Gladys Maestre, Jean Ikanga
- 9:00 h – 10:30 h **VI. Non-AD Neurodegenerative Dementias**
Chairs: Richard Walker (UK) & Njideka Okubadejo (Nigeria)
- Presenters:**
Njideka Okubadejo, University of Lagos, Nigeria
Genetic Architecture of Parkinson's Disease in Africa: current status, gaps and prospects
- Peter Hedera**, University of Louisville, KY, USA
Practical approach to dementia associated with movement disorders
- Richard Walker**, Newcastle University, UK
NIHR Global Health Research on Transforming Parkinson's Care in Africa (TraPCAf)
- Elisabet Englund**, University of Lund, Sweden
Clinical Features and Pathophysiology of Frontotemporal Dementias
- Albert Stezin Sunny (ECR)**, Centre for Brain Research, Indian Institute of Science, India
Digital Biomarkers in Dementia
- Rafi Haddad (ECR)**, Tel Aviv University, Israel
LARK mutations and PD Dementia
- 10:30 h – 11:00 h **Coffee Break and Posters**
Poster presentations of submitted abstracts.
- 11:00 h – 12:30 h **VII. Aphasia and Cognitive Assessment (WFN ADCD Session)**
Chair: Aida Suarez Gonzalez (UK), Kamada Lwere (Uganda)
- Presenters:**
Thomas Bak, University of Edinburgh, UK
The Implications of Linguistic Diversity for Aphasia Assessment & Treatment
- Aida Suarez Gonzalez**, University College London, UK
Reducing cognitive disability in people living with dementia
- Morris Freedman**, University of Toronto, Canada
Opportunities for Telemedicine in Dementia in LMICs including Africa
- Elena Tsoy**, Global Brain Health Institute, UCSF, USA
Digital cognitive markers for diagnosis and prognosis of Alzheimer's disease and related dementias

Stella-Maria Paddick, Newcastle University, UK
Verbal Fluency in Cognitive Assessment

Panagiotis Alexopoulos (ECR), University of Patras, Greece
Practical Approaches to Evaluating Auditory Function in Individuals with Dementia and Hearing Loss

12:30 h – 13:00 h

Poster Blitz Session II

Short presentations (2 min) by first or last author of the posters – Session B (surnames of presenting author from Co - Ki)

Chairs: Eef Hogervorst (UK), Christine Musyimi (Kenya)

13:00 h – 14:00 h

LUNCH Break

13:00 h – 14:00 h

Networking Lunch II for ECRs: Funding and Capacity Building

Chair: Victor Valcour (USA)

Mentors: Gladys Maestre, Riadh Gouider, Shireen Javendel, Zul Merali

Discussions about how PIs survive with relevant representatives over lunch.

14:00 h – 15:30 h

VIII. Expanding research in Down syndrome and Dementia in LMICs

Chairs: Jason Hassenstab (USA), Kirti Ranchod (SA)

Presenters:

Juan Fortea, Hospital of Sant Pau, Barcelona, Spain

Contextualising Down syndrome related Alzheimer's disease

Ayda Tefera, UCSF, San Francisco, USA

Perspective from clinician and family member on Down syndrome in Ethiopia

Kirti Ranchod, Johannesburg, South Africa; **Eimear McGlinchey**, Dublin, Ireland

Down syndrome initiatives across Africa

Atholl Kleinhans, SMU, South Africa

Lessons from a Down syndrome awareness project in South Africa

Tamlyn Watermeyer, Northumbria University, UK

Neuropsychological assessment for people with Down syndrome

Rachel Maina (ECR), AKU, Nairobi, Kenya

Supporting people with Down syndrome in Kenya

15:30 h – 16:00 h

Tea Break and Posters

Poster presentations of submitted abstracts.

16:00 h – 17:30 h

IX. Dementia Care, Policy and Engagement

Chairs: Victoria Mutiso (Kenya), Louise Robinson (UK)

Panelist: Felix Potocnik, *Quality Standards on Human Rights for Services in Dementia Care*

Presenters:

Sonu Bhaskar, NCVG, Japan and Global Health Neurology Lab, Australia
Optimizing Care for Cognitive Decline and Dementia in LMICs: Clinical Strategies and Innovations for Patient-Centered Care

Ameenah Sorefan, Président of the Association Alzheimer & Dementia, Mauritius
Dementia Diagnosis and Post Diagnosis Support in Mauritius

Louise Robinson, Newcastle University, UK
Research on dementia care, policy and engagement in LMICs: lessons from the UK NIHR Global Health DePEC Group

James Kahn, GBHI, San Francisco, USA
Economics and Brain Health

Faith Simushi (ECR), University of Lusaka, Zambia
Care giving, stigma and education of the public

Rachel Alinaitwe (ECR), Makerere University, Kampala, Uganda
Reliability of Community Health Workers in Detecting and Referring Older Persons with Cognitive Impairment for Care in the Community

17:30 h – 18:00 h

Poster Blitz Session III

Short presentations (2 min) by first or last author of the posters – Session C (surnames of presenting author from Ko - Og)

Chairs: Joshua Akinyemi (Nigeria), Pedro Mena (USA)

18:00 h – 18:30 h

IXi. Capacity Building Special Session: Resources and Neuropsychometric Assessment

Panel: Shireen Javandel (USA), Jeremy Tanner (USA), Tamlyn Watermeyer (UK), Stella-Maria Paddick (UK)

20:00 h – 22:30 h

Symposium Safari Banquet

Nyama Choma Ranch

Friday, 06 December

- 8:00 h – 9:00 h **Survival Skills Breakfast: HIC-LMIC Collaborations**
One on one time with global leaders in dementia research to discuss best practices for collaboration, over breakfast.
Chair: Maelenn Guerchet (Benin)
Mentors: Rufus Akinyemi, Sonu Bhaskar, Peggy Pericak-Vance, Richard Walker
- 9:00 h – 10:30 h **X. Modifiable Risk Factors: Prevention**
Chair: Noeline Nakasujja (Uganda), Philip Adebayo (Tanzania)
- Presenters:**
Sebastian Walsh, Cambridge Public Health, University of Cambridge, UK
A population-level approach to dementia risk reduction (PLADRR)
- Eef Hogervorst**, Loughborough University, UK & Yuda Turana Atma Jaya University, Indonesia
The dulling of the senses and Alzheimer's disease
- Bernard Mbwele (ECR)**, Mbeya, Tanzania
Community Priority Setting in Dementia Risk Reduction in Rungwe District, Mbeya Tanzania: Learning from Akili Mali Project
- Joaquin Migeot (ECR)**, Latin American Brain Health Institute (BrainLat), Universidad Adolfo Ibañez, Chile
Social exposome and brain health outcomes of dementia across Latin America
- Maureen Tshuma (ECR)**, Brighton and Sussex Medical School, UK
An intervention for people with cognitive impairment: Adaptation of the Cognitive Stimulation Therapy Manual for use across Zimbabwe
- 10:30 h – 11:00 h **Coffee Break and Posters**
Poster presentations of submitted abstracts.
- 11:00 h – 12:30 h **XI. Genetic Factors**
Chairs: Peggy Pericak-Vance (USA), Rufus Akinyemi (Nigeria)
- Presenters:**
Margaret Percak-Vance, University of Miami, USA
Global Genetics and the READD-ADSP Study
- Jeffery Vance**, University of Miami, USA
Updates on the protective loci for APOE4 in Africans
- Diego Sepulveda-Falla**, University of Hamburg, Germany and Colombia
Lessons from Autosomal Dominant Alzheimer Disease in Colombia
- Nicholas R Ray (ECR)**, Columbia University, NY, USA
Genetic covariance analysis of Alzheimer's disease and stroke implicates PHLPP1 as a shared locus in individuals of African ancestry

Karen Nuytemans (ECR), JP Hussman Institute for Human Genomics, University of Miami, USA
Functional Analysis on African Ancestry Loci

12:30 h – 13:00 h

Poster Blitz Session IV

Short presentations (2 min) by first or last author of the posters – Session D (surnames of presenting author from Om - W)

Chairs: Thomas Issac (India), Yared Zwede (Ethiopia)

13:00pm – 13.45 h

XII. Early Career Researchers (ECRs) Session

Short presentations from ECRs on their best dementia research

Chairs: Gladys Maestre (USA), Victor Valcour (USA)

Presenters:

Damas Mlaki (ECR), Directorate of Medical Services, Mirembe National Mental Health Hospital, Dodoma, Tanzania,

Development and suitability of neuropsychological tests among older adults in Tanzania: Implications of the findings of the Tanzania 2022 Population and Housing Census

Christine Musyimi (ECR), Africa Mental Health Research and Training Foundation, Kenya

Dementia stigma reduction in an African setting: A call to policy action

Marija Taneska (ECR), University College London, UK and the Institute for Alzheimer's Disease and Neuroscience, N.Macedonia

Collaborating for Improved Dementia Care in the Balkans: Insights from North Macedonia's START and NOMAD Projects

Wambui Karanja (ECR), Brain and Mind Institute, AKU, Kenya

Understanding Risk of Dementia: Using Life-course Approach Through the African Brain Health Dashboard

13:45 h

Close of Symposium and Farewell

14:00 h – 15:00 h

LUNCH Break

14:00 pm – 15:00 h

Networking Lunch III for ECRs: ISTAART

Short presentations about opportunities with the International Society to Advance Alzheimer's Research and Treatment.

Panel: Claire Sexton (USA), Henrik Zetterberg (Sweden), Derick Mwangi Muturi (Kenya)

14.00– 14.30

Networking lunch – Brain Health and Ageing in HIV, a focus on East Africa.

Informal introductions with community partners, NGO representatives and researchers participating in the Brain Health and Ageing in HIV workshop

15:00 h – 16:15 h

COSMIC Consortium Meeting (Chairman's Room)

Chair: Maëlen Guerchet (Benin)

Brief overview of the Cohort Studies of Memory in an International Consortium (COSMIC) by its lead Professor Perminder Sachdev (online). This session aims at introducing the consortium and its work, and is also designed to gather feedback

on the training opportunities that could be developed in LMIC during the next 4 years.

15:00 h – 17:30 h

**Brain Health and Ageing in HIV, a focus on East Africa
Parallel session and workshop**

This is a co-produced session with academic researchers and representatives of patient advocacy groups in East Africa on brain health research priorities and how we might co design future brain health interventions. All conference attendees are welcome to attend, particularly those engaged in HIV and cognitive impairment research.

Chairs: Stella-Maria Paddick (UK), Jaime Vera (UK), Elijah Mwega (Karika Kenya), Kenly Sikwese (AfroCAB)

*HIV, Brain Health and Ageing – a brief overview (Jaime Vera)
ECR presentations*

Upal Roy, University of Texas Rio Grande Valley, Texas, USA
Dolutegravir and Tenofovir Alafenamide Have Associated with More Depressive Symptoms and Premature Aging in People with HIV: A Possible Implication for Low and Middle-Income Countries (LMIC)

Deo Benyumiza, Mbarara University of Science and Technology, Uganda
Prevalence of dementia and its association with central nervous system infections among older persons in Northern Uganda – Cross sectional study

Workshop – brainstorm and consensus discussion of research priorities

Question 1

Question 2

16:15 h – 16:30 h

Tea Break

16:30 h – 17:30 h

HIV, Brain Health and Ageing workshop continues

Workshop – brainstorm and consensus discussion of research priorities

Question 3

Question 4