

CURRICULUM VITAE

NAME:	YALEMTSEHAY MEKONNEN
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Work Address: College of Natural and Computational Sciences
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PERSONAL DETAILS

Gender & Nationality: Female & Ethiopian
Martial status: married, have two children & three grandchildren
Position: **Professor of Cell & Human Physiology**
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EDUCATION

1989-1992 Ruprecht Karl University of Heidelberg, Heidelberg, Germany
PhD in Human Physiology
1978-1980 Addis Ababa University, Addis Ababa, Ethiopia
M. Sc. in Biology (Zoology)
1972-1977 Addis Ababa University, Addis Ababa, Ethiopia
B. Sc. in Biology

AWARDS/PROFESSIONAL TRAINING AND FELLOWSHIPS

May 26, 2019 Recognition for academic and scientific excellence by the Society
of Ethiopians Established in Diaspora, Washington DC

July 2018-July 2019	Mentor of Partnerships for Enhanced Engagement in Research (PEER) Women in Science Mentoring Program, USAID supported
June-July, 2017	University of Hohenheim, Stuttgart, Germany, Fellow Alexander von Humboldt Foundation
May 2016	Women's leadership and management course, Kampala, Uganda
Jan 2016	African Union Kwame Nkrumah Regional Scientific Awards for Women in Science
Feb, 2015-2017	Mentor in the African Women in Agricultural Research & Development (WARD) program hosted by World Agroforestry Centre, Kenya
Aug 2015	Training on Environment management systems, given by Quality Austria, supported by Addis Ababa University
May 2014	Awarded grant for Research Group Linkage of the Alexander von Humboldt Foundation with the University of Hohenheim, Germany
July-Aug 2013	University of Hohenheim, Stuttgart, Germany, Fellow Alexander von Humboldt Foundation
May 26, 2010	TWAS-UNESCO Associateship Award at Centres of Excellence in the South, H.E.J Inst. of Chemistry, University of Karachi, Pakistan
Feb 07, 2010	Recognition for distinguished service to Addis Ababa University and the University community, AAU
June 03, 2009	Excellent achievement Gold Medal awarded by Addis Ababa University, Addis Ababa, Ethiopia
Nov 28-Dec 27, 80	ICRO – Bombay, India International training course, "The Use of Tissue Culture for Investigation in Human Cancer" Sponsored by UNESCO

INTERNATIONAL COLLABORATIONS AND SUCCESSFUL RESEARCHES

- Pesticide Risk Reduction Programme; A collaborative programme of the Ministry of Agriculture Ethiopia, Wageningen University of the Netherlands and FAO; as a co-adviser of PhD student from 2012 to 2017
- A multicentre comparative trial of efficacy and safety of sodium stibogluconate (SSG) vs paramomycin (PM) vs. combination of SSG & PM as the first line treatment for VL in Ethiopia, Kenya and Sudan; since 2004
- Initiated the Leishmaniasis East African Platform (LEAP) in collaborations with colleagues from Kenya and the Sudan in 2003

- Selection of *Moringa* genotypes with fast growth, high nutritive leaf quality, pest and drought resistance, funded by Ethiopian Agricultural Organization (EARO) 2000 - 2005
- Co-ordinated the establishment of the East African Regional Programme in Insect Science, Department of Biology as the centre of excellence, 1994
- Co-ordinated a Regional project for research and training on Dry land Biodiversity (focusing on the plant/animal resources and the environment) involving Ethiopia, Kenya and Uganda. The programme is still running which has a core programme of training at Masters Level. Department of Biology, AAU is the training centre, 1994.

PARTICIPATION IN INTERNATIONAL PROJECTS

- United Nations University /INRA: Natural Resources Management Enterprises Project. As the project leader produced: Documentation of Success Stories of Women in Natural Resources Management Enterprises in Ethiopia, November 2000
- International **Assessment of Agricultural Science and Technology** for Development (IAASTD), Coordinating lead author of Sub-Sahara Africa Region, September 2005 -2007

EXAMPLES PROFESSIONAL RELATED: MEMBERSHIP, LEADERSHIP & PARTICIPATION

Jan, 2022-	Fellow of African Academy of Sciences
Jan. 2022-	Fellow the World Academy of Sciences
June 2021-	Board member of the Addis Ababa Sci & Tech Univ
Since Nov 2019	Principal Vice President of the Ethiopian Academy of Sciences
Since Dec. 2018	President of the Association of Ethiopian Humboldtians
June 2013- Apr 2017	Board Chair, Society of Ethiopian Women in Science & Technology
2017-2021	Board member of Woldeya University, Ethiopia
Jan 2011-Mar 2017	Board member, YWCA Ethiopia
Since 2017-	Member of AGNES
Jan 2016- Dec. 2021	Ambassador Scientist of Alexander von Humboldt Foundation in Ethiopia
May 2011- Sep 2014	Board member of Addis Ababa Science & Technology University, Ethiopia
April 2010-Nov 2016	Treasurer and Board Member of the Ethiopian Academy of Sciences
Jan 2009- July 2012	Board member of Ethiopian Quality Award Organization
Feb.2004-Feb. 2006	President of the Biological Society of Ethiopia

AREAS OF RESEARCH INTEREST

- Plants of medicinal and nutritional importance: Bioassay-guided fractionations, *in vivo* and *in vitro* physiological tests of medicinal plants, and medicinal test systems for activity of plant-based extracts for infectious (E.g. malaria) and non-infectious diseases (E.g. diabetics).
- Health hazard to humans, animals and the environment (due to chemicals and other contaminants)
- Advocacy and collaborative work for the promotion of safe and sustainable use of natural resources with emphasis on plant biodiversity

PUBLICATIONS/BIBLIOGRAPHY

Published over 122 scientific papers, book chapters etc.

EXAMPLES OF RECENT PUBLICATIONS

1. Asmamaw Habtamu, Yalemtehay Mekonnen. Antibacterial potential of the 80% MeOH and chloroform extracts of *Clematis hirsute*. *Afr J of Pharmacy & Pharmacology*. 11(16):204-8 (2017).
2. Tadesse B. Tafesse, Ariaya Hymete, Yalemtehay Mekonnen, Mekuria Tadesse. Antidiabetic activity and phytochemical screening of extracts of the leaves of *Ajuga remota* Benth on alloxan induce diabetic mice. *BMC Complementary & Alternative medicine*. 17: 243. DOI 10.1186/s12906-017-11757-5 (2017).
3. Zufan Bedewi, Y. Mekonnen, Ameni Gobena et al. Mycobacterium tuberculosis in Central Ethiopia. Drug sensitivity patterns and its association with genotypes. *New Microbes & New Infections*. 17: 69-74 (2017).
4. Zufan Bedewi Omer, MSc; Yalemtehay Mekonnen, PhD; Adane Worku, BSc; Girmay Medhin, PhD; Aboma Zewde, BSc; Getnet Yimer, PhD; Rembert Pieper; Gobena Ameni. Molecular typing of *Mycobacterium tuberculosis* complex Isolated from pulmonary tuberculosis patients in central Ethiopia. *BMC Infectious diseases*. 17: 184 (2017).
5. Destaw Damtie, Yalemtehay Mekonnen, Amelework Eyado. Acute toxicity study of *Thymus serrulatus* and *Thymus schimperi*. *Ethiopian Journal of Science and Technology*. 10(3): 181-192 (2017).
6. Alemayehu Toma, Eyasu Makonnen, Yalemtehay Mekonnen, Asfaw Damtie, Sirichai Addisakwattana. Extract of leaves of *Moringa stenopetala* glycation in *in vitro* model. *EC Nutrition*. 11.6: 218-222 (2017).
7. Yadessa Melaku, Tefera Worku, Yemane Tadesse, Yalemtehay Mekonnen, Juergen Schmidt, Norbert Arnold and Ermias Dagne. Antiplasmodial compounds from leaves of *Dodonaea angustifolia*. *Current Bioactive Compounds*. 13 (3): 268 – 273(2017).

8. Bezuallem Shenkutie, Yalemtehay Mekonnen, Daniel Seifu, Endegen Abebe, Wondwossen Ergete, Amanuel Dame, Wajana Lako Labisso. Biological and clinicopathological characteristics of breast cancer at Tikur Anbessa Specialized hospital, Addis Ababa, Ethiopia. *Journal of Cancer Science & Therapy*. 9(12): 755-760 (2017).

9. Atkilt Esayas, Habtamu Sanbata, Yalemtehay Mekonnen. Occupational health and safety related knowledge, attitude and practice in among wood and metal workers in Hawassa, Ethiopia. *Annual Research and Review in Biology*. 22(6):1-9 (2018).

10. Beyene Negatu, Hans Kromhout, Yalemtehay Mekonnen & Roel Vermeulen. Neurobehavioural. Symptoms and acute pesticide poisoning: a cross-sectional study among male pesticide applicators selected from three commercial farming systems in Ethiopia. *Occupational & Environmental Medicine*. *Occup Environ Med*; 0:1–7. Doi: 10.1136/oemed-2017-104538 (2018).

11. Tebaber Workneh, Guday Emirie, Mirgissa Kaba, Yalemtehay Mekonnen and Helmut Kloos. Perceptions of health and illness among the Konso people of southwestern Ethiopia: persistence and change. *Journal of Ethnobiology and Ethnomedicine* 14:18 <https://doi.org/10.1186/s13002-018-0214-y> (2018).

12. Geremew Tafesse, Yalemtehay Mekonnen, Eyasu Makonnen, Runner R. T. Majinda, Gomotsang Bojase-Moleta and Samuel O. Yeboah. Antibacterial activity of crude extracts and pure compounds isolated from *Vernonia galamensis* leaves. *African Journal of Pharmacy & Pharmacology*. Vol.12 (11): 136-141 (2018).

13. Destaw Damtie, Christina Braunberger, Jürgen Conrad, Yalemtehay Mekonnen and Uwe Beifuss. Composition and hepatoprotective activity of essential oils from Ethiopian thyme species (*Thymus serrulatus* and *Thymus schimperi*). *J of Essential Oil Research*. <https://doi.org/10.1080/10412905.2018.1512907> (2018).

14. Gebreyohannes Zemichael and Yalemtehay Mekonnen. Antiplasmodial activity of *Vernonia adoensis* aqueous, methanol and chloroform leaf extracts against chloroquine sensitive strain of *Plasmodium berghei* in vivo in mice. *BMC BMC Res Notes* 11:736 <https://doi.org/10.1186/s13104-018-3835-2> (2018).

15. Mesfin Melaku, Yalemtehay Mekonnen, Melaku Tefera. Antibacterial and antioxidant activities of crude aerial part extract of *Satujera punctata* (Benth) Brig. *African J of Bacteriology Research*. 10 (4): 44-49 (2018).

16. Temesgen Awoke, Yalemtehay Mekonnen, Negussie Retta. Comparison of total phenolic content, free radical scavenging potential and antihyperglycemic condition from leaves extract of *Moringa stenopetala* and *Moringa oleifera*. *Ethio J Pub Hlth Nutr*. 1: 20-27 (2019).

17. Fikru Gashaw, Samuel Bekele, Yalemtehay Mekonnen, Girmay Medhin, Gobena Ameni and Berhanu Erko. High helminthic co-infection in tuberculosis patients with undernutritional status in northeastern Ethiopia. *Infectious Diseases of Poverty*. 8:88 (2019).
18. Tsedale Tasew, Yalemtehay Mekonnen, Tegenu Gelana, Mesfin Redi-Abshiro , Bhagwan Singh Chandravanshi , Estifanos Ele, Ahmed Mustefa Mohammed and Hassen Mamo. In Vitro Antibacterial and Antioxidant Activities of Roasted and Green Coffee Beans Originating from Different Regions of Ethiopia. *International Journal of Food Science*. Volume 2020, Article ID 8490492 (2020).
19. Destaw Damtie, Yalemtehay Mekonnen. Antibacterial activity of essential oils from Ethiopian thyme (*Thymus serrulatus* and *Thymus schimperi*) against tooth decay bacteria. *PLoS ONE* 15(10): e0239775. <https://doi.org/10.1371/journal.pone.0239775> (2020).
20. Beyene Nigatu, Sisay Dugasa and Yalemtehay Mekonnen. Environmental and health risks of pesticide use in Ethiopia. A Review: *Journal of Health and Pollution* Vol. 11(30); 1-14 (2021).
21. Luka Verrest , Monique Wasunna , Gilbert Kokwaro , Rashid Aman , Ahmed M Musa, Eltahir A G Khalil, Mahmoud Mudawi , Brima M Younis , Asrat Hailu, Zewdu Hurissa, Workagegnehu Hailu, Samson Tesfaye, Eyasu Makonnen , Yalemtehay Mekonnen, Alwin D R Huitema , Jos H Beijnen , Smita A Kshirsagar, Jaya Chakravarty, Madhukar Rai , Shyam Sundar, Fabiana Alves , Thomas P C Dorlo. Geographical Variability in Paromomycin Pharmacokinetics Does Not Explain Efficacy Differences between Eastern African and Indian Visceral Leishmaniasis Patients. *Clinical Pharmacokinetics*. 2021 Jun 9. Doi: 10.1007/s40262-021-01036-8. Online ahead of print.
22. Destaw Damtie, Yalemtehay Mekonnen. Toxicity and Oviposition Deterrent Activities of Thyme Essential Oils against *Anopheles arabiensis*. *Psyche: A Journal of Entomology* 2021, 2021.

LANGUAGE PROFICIENCY

Amharic (mother tongue), English, German
