CV: MESFIN WOGAYEHU TENAGASHAW

Biographical Data

Name Mesfin Wogayehu Tenagashaw
Date of Birth 10-07-1982
Nationality Ethiopian
Languages Amharic, English (Proficient)

Current Address

Mesfin Wogayehu Tenagashaw (PhD)
Applied Human Nutrition Chair
Bahir Dar University
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Educational Background

| Year | Qualification | Institution | Location |
|------|---------------|-------------|----------|
| 2017 | Ph.D in Food Science and Nutrition | Department of Food Science, Technology and Nutrition, Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya |
| 2007 | M.Sc in Food Engineering | Food Engineering Chair, Addis Ababa University, Addis Ababa, Ethiopia |
| 2002 | B.Sc in Chemistry | Department of Chemistry, Bahir Dar University, Bahir Dar, Ethiopia |

Work Experiences

❖ About thirteen years of experience in teaching, research, outreach and extra-curricular activities in the area of Food Science, Technology and Nutrition

Teaching Activities

❖ Delivered lots of courses in both undergraduate and postgraduate programmes in Food Science and Technology and Nutrition areas

MSc/PhD Research Supervision

❖ Supervised/ supervising a number of Food Technology/Food Science and Nutrition/Applied Human Nutrition (MSc/PhD) researches
Leadership Positions

✦ **Head, Applied** Human Nutrition Chair, March/2018 to date, Bahir Dar Institute of Technology, Bahir Dar University, Bahir Dar, Ethiopia.

✦ **Head, Food and Beverage Process Chair**, April/2012 to September/2013, Food Engineering Programme, Bahir Dar University, Bahir Dar, Ethiopia.

✦ **Case Handler, Research**, Postgraduate and Community Service Office, Institute of Technology, Bahir Dar University, March 2013 to August, 2013.

✦ **Programme Manager**, School of Chemical & Food Engineering, September/2009 to April/2012, Institute of Technology, Bahir Dar University, Bahir Dar, Ethiopia.

✦ **Laboratory Head**, Product Development and Sensory Analysis Laboratory, Bahir Dar University, Bahir Dar, Ethiopia. September 2008 to September 2009.

Publications in Peer Reviewed Journals

✦ Fentanesh Nibret Tiruneh Degnet Teferi Asres; **Mesfin Wogayehu Tenagashaw**; Hirut Assaye Cherie (2021.) Associations of early marriage and early childbearing with anemia among adolescent girls in Ethiopia: a multilevel analysis of nationwide survey. Archives of Public Health.

✦ Shewangzaw Addisu Mekuria, **Mesfin Wogayehu Tenagashaw**, John N. Kinyuru and Beatrice Kiage Mokua (2021). Nutritional Quality and Safety of Complementary Foods Developed from Blends of Staple Grains and Honey Bee Larvae (Apis mellifera). International Journal of Food Science

✦ Tsehayneh G. Yohannes, Anselimo O. Makokha, Judith K. Okoth and **Mesfin W. Tenagashaw** (2020). Nutritional, Biochemical and Haematological Indices of White Albino Rats Fed Complementary Diets Developed from Selected Cereals and Legumes. Current Nutrition & Food Science, 16, 1-10

✦ Tsehayneh Geremew Yohannes, Anselimo Ouma Makokha, Judith Kanensi Okoth, **Mesfin Wogayehu Tenagashaw**. Developing and Nutritional Quality Evaluation of Complementary Diets Produced from Selected Cereals and Legumes Cultivated in Gondar Province, Ethiopia. Current Research in Nutrition and Food Science, 8 (1), 291-302.

✦ Worku, A. F., **Mesfin W. Tenagashaw**, Merkuz A., Kalsa K. K., and Habtu, N.G. (2019). Occurrence of mycotoxins in farm-stored wheat in Ethiopia. African Journal of Food, Agriculture, Nutrition and Development, 19 (4), 14829-14847.
Tenagashaw, M. W., Kenji, G. M., Melaku, E. T., Huyskens-keil, S., & John, N. (2017). Bioavailability of selected micronutrients in teff-based complementary infant foods. *Current Nutrition and Food Science, DOI: 10.2174/1573401313666170912165424*

Tenagashaw, M. W., Kinyuru, J. N., Kenji, G. M., Melaku, E. T., & Susanne, H. (2017). Nutrient density of complementary foods formulated from a blend of teff, soybean and orange-fleshed sweet potato. *International Journal of Food Science and Nutrition Engineering, 7*(4), 61–69.

Tenagashaw, M. W., Kinyuru, J. N., Kenji, G. M., Melaku, E. T., & Huyskens-Keil, S. (2017). Teff-based complementary foods fortified with soybean and orange-fleshed sweet potato. *Journal of Food Research, 6*(1), 112–122.

Wogayehu, M., & Shimelis, A. (2013). Effect of soybean/cassava flour blend on the proximate composition of Ethiopian traditional bread prepared from quality protein maize. *African Journal of Food, Agriculture, Nutrition and Development, 13* (4), 7985-8003.

Admassu, S. & Wogayehu, M. (2012). Assessment of organoleptic and physicochemical properties of traditional bread from maize supplemented with soybean and cassava flours. *International Journal of Food Science, Technology & Nutrition, 6* (1), 11-28.

**Submitted Manuscripts** (Under Peer Review)

Fentanesh Nibret Tiruneh, Degnet Teferi Asres, Mesfin Wogayehu Tenagashaw and Hirut Assaye Cherie. Decision-making autonomy of women and other factors of anemia among married women in Ethiopia: a multilevel analysis of a countrywide. *BMC Public Health.*

Shewangzaw Addisu Mekuri, John Kinyuru, Beatrice Kiage, Mesfin Wogayehu. Effects of Extrusion on Nutritional Value of Complementary Foods: A systematic review. *Journal of Food Process Engineering*

Admasu F. Worku, Merkuz Abera, Karta K. Kalsa, Nigus G. Habtu, Tenagashaw M. Wogayehu, Subramanyam Bhadriraju, Hadush Tsehay, Fetien Abay, Helge Skinnes. Dynamics of mycotoxin occurrence in farm-stored maize in Mer-Awi district, Ethiopia. Submitted to Journal of Stored Food Products.

Emebet Gashaw and Mesfin Wogayehu. The association between women’s empowerment and children’s nutritional status in rural kebeles of Bahir Dar town, North West Ethiopia. *PLOS ONE*

**Ongoing Researches**

Investigation of the Agricultural Production, Effects of Processing and Intended Use of Kale in Amhara Region, Northwest Ethiopia.

Formulation and Development of Nutritious Bread from a Mixture of Wheat, Teff and Lupin in Ethiopia.
Indigenous Practices of Injera Preparation, Preservation and Consumption Trends in Amhara Region, Ethiopia

Research/Project Interests

- Infant and child nutrition; complementary foods and feeding; micronutrients and bioavailability; fortification of food products, community nutrition; nutrition education and advocacy; food and nutrition security;
- Food processing and quality evaluation; utilization of indigenous crops and food processing practices; food preservation and shelf-life studies; food quality and safety;
- Applications of biotechnology in food science/technology and nutrition

Major Short Trainings Attended (with Certificates)

i. Nutrition and Related

- Qualitative Research Methodology, Bahir Dar Institute of Technology, Bahir Dar University, Bahir Dar, Ethiopia, January 2021.
- International Postgraduate Course on Production and Use of Food Composition Data in Nutrition, Wageningen University, Wageningen, The Netherlands, 01 – 06 December, 2019
- Nutrition Software Training (WHO Anthro, WHO AnthroPlus, Food Processor and ENA), Jhpiego, Bishoftu, Ethiopia, August, 2018
- Food-based Dietary Guideline Development and Validation Training, Ethiopian Public Health Institute, Addis Ababa, Ethiopia, May, 2018
- Training of Trainers on Multi-Sectoral Implementation of Food Fortification in Ethiopia, FAO/WHO/AAU, Addis Ababa, Ethiopia, February, 2013

ii. Food Science/Processing

- Behaviour Change Training of Trainers for Food Safety Champions Course, TechnoServe’s Alliance for Inclusive and Nutritious Food Processing, Nairobi, Kenya, October 29 to November 2, 2019
- Aflatoxin Management, Food Science and Technology Platform of Kenya, Nairobi, Kenya, February 30 to March 03, 2016
- Eco-physiological Basics of Urban Horticulture, Humboldt-Universität zu Berlin, Berlin, Germany, October, 2015
• International Training Programme on Milk Processing, Milking Systems and Milk Quality, Practical Training Centre (PTC+), Oenkerk, The Netherlands, November, 2011

• Lab Didactics Training in Food Science and Technology, Engineering Capacity Building Programme, Addis Ababa University, Addis Ababa, Ethiopia, December, 2009

• Training on GHP, GMP, Global GAP, Food Safety Management Systems (ISO 2200:2005, HACCP, British Retail consortium (BRC)) and Risk Analysis, Quality Inspection, Testing and Certification (QITC) Services PLC, Bahir Dar, Ethiopia, September, 2008

• Training on Auditor/Lead Auditor/Quality Manager for Quality Management Systems ISO 9001:2000, Engineering Capacity Building Programme, Bahir Dar, Ethiopia, December, 2008
iii. **Research, Teaching, Leadership and Related**

- Online Technology for Learning and Virtual Facilitation Skills Training for Higher Learning Institutions, a virtual training organized by Jhpiego-Growth through Nutrition Project Ethiopia. October 2020.

- Evidence to Policy: Policy, policy making process, use of evidence in policy making, setting and prioritization of policy issues, a virtual training organized by Harvard Fenot Project. June 2020.

- Assessment Blue Print Development for Human Nutrition Programs, a virtual training organized by Jhpiego Ethiopia. July 2020.

- Institutional and Program Level Quality Auditors Training, Higher Education Relevance and Quality Assurance (HERQA) in collaboration with Jhpiego Ethiopia, Adama, Ethiopia, July 31 to August 1, 2019

- African Nutrition Leadership Program, North-Western University (South Africa) in collaboration with ENLN, Bishoftu, Ethiopia, 11-21 August, 2019

- Higher Diploma Programme: Professional Training of Academic Staff in Higher Education Institutions, Bahir Dar University in collaboration with Ministry of Education, Bahir Dar, Ethiopia, September 2018 to June 2019

- Leadership and Change Management Training.

- Gender Responsive Effective Teaching Skills, Jhpiego Ethiopia, Bahir Dar, Ethiopia, March, 2019

- The Smart Methodology Survey Manager Training, PASUFONS, Makerere University, Kampala, Uganda, November 2017

- Mobile Data Collection Training (ODK), PASUFONS, Makerere University, Kampala, Uganda, November 2017

- Training and Networking Workshop on Dissemination Strategies and Statistical Data Analysis, DAAD and SLE, Jomo Kenyatta University of Agriculture & Technology, Nairobi, Kenya, November, 2017

- E-Resources Search Strategies and Referencing, organized by DAAD Regional Office, Nairobi, Kenya, October 2014

- Scientific Research Methods and Statistical Analysis Tools (Using SPSS 2020), Institute of Technology, Bahir Dar University, February 2013, Bahir Dar, Ethiopia
Trainings Delivered

- Successfully delivered a one-week intensive training on **Nutrition Leadership, Management and Governance (NLMG)** Training which was organized by the Ministry of Health, Ethiopia, in collaboration with Ethiopia Nutrition Leaders Network, February, 2020.

- Delivered a four-day **Food Safety Training** to individuals drawn from various sectors of the food and beverage processing sector in collaboration with TechnoServe, January, 2020, Addis Ababa Ethiopia (serving as a consultant to TechnoServe).

- Participated as a facilitator during the one-week long testing of a **training manual for the National Nutrition Leadership, Management, and Governance (NLMG)** Training which was organized by the Ministry of Health, Ethiopia, in collaboration with Ethiopia Nutrition Leaders Network, September, 2019.

- Successfully delivered a one-week intensive training on **Processing, Quality and Safety of Dairy Products** to dairy cooperatives and individuals involved in dairy processing and marketing activities in and around Bahir Dar city, in collaboration with USAID, August 2012, Bahir Dar, Ethiopia.

- Offered a three-day **Food Safety and Quality Management Training (GHP, GMP, HACCP)** to millers, bakers and grain traders drawn from Amhara Region which was organized by TechnoServe in collaboration with the then School of Chemical & Food Engineering, Bahir Dar University, Bahir Dar, Ethiopia, 2013 (Job ID: 14730).

Community Services Delivered

- **Production of Vegetables through Vertical Farming System for Urban and Semi-Urban community to Achieve Food Security** for selected Merawi town communities, Mecha Woreda, West Gojam zone, Ethiopia, November 2020.

- **Awareness Creation about Nutrition through School Gardening and Behavioural Change Approaches: Establishing School Nutrition Clubs** for two schools, namely Gitiba Elementary School, South Gondar zone and Andinet Elementary School, Mecha Wereda, West Gojam Zone, Amhara Regional State, 2019, Ethiopia (with other nutrition staff).

- **Menu Preparation, Food Safety, Personal Hygiene and Kitchen Design** for Café business people to improve their income generation in Merawi town, West Gojam zone, Amhara Regional State, January, 2019, Ethiopia (with other nutrition staff).

Project Activities

- Project Coordinator for a Twinning Project between Food, Beverage and Pharmaceutical Industry Development Institute (FBPIDI) and Bahir Dar Institute of Technology (BiT), December/2018 to date (Ethiopia) on training, research, consultancy, etc.

- Member of a project team on “Feasibility Study on Establishment of Edible Oil Refinery Plant in and around Bahir Dar City” which was conducted by the United Nations Industrial
Development Organization (UNIDO) in collaboration with Bahir Dar University (BDU), June 2011, Bahir Dar, Ethiopia.

Consultancy Services Offered

✦ Dairy Products Consultant for the ‘Building Rural Income through Inclusive Dairy Growth in Ethiopia’ (BRIDGE) project, Amhara cluster.

✦ Food Safety Consultant at TechnoServe; mobilizing trainees, delivering sector wide food safety trainings to personnel engaged in food processing, handling, storage, transportation and marketing and following up those trained on their application of the training concepts.

National Collaboration/Engagement

✦ Delivering a number of services in the areas of nutrition, nutrition leadership trainings, etc under the umbrella of Ethiopia Nutrition Leaders Network (ENLN)

✦ Currently working on a number of **regional and national collaborations** among sector offices, research institutes, development organizations and non-governmental organizations on food and nutrition issues including participation under Ethiopia Nutrition Leaders Network (ENLN).

✦ Member of the national committee that is designated to prepare the **National Nutrition Strategy** which is meant to serve implementation of the **Food and Nutrition Policy** of the country, which is currently under operation being organized by the Ministry of Health.

✦ Member of the recently established national **Food-based Dietary Guideline (FBDG) Technical Working Group** which is tasked with technically supporting the development, validation and pilot implementation of FBDGs in Ethiopia. It was established in May/2018 by the Ethiopian Public Health Institute (EPHI) of the Federal Ministry of Health, and is currently actively working on the matter.

Professional Society/Association Membership

✦ Member, **The Agriculture, Nutrition & Health (ANH) Academy**, a global research network in agriculture and food systems for improved nutrition and health to serve as a platform for learning and sharing.

✦ Member, **The Global Harmonization Initiative (GHI)**, an international non-profit network of individual scientists and scientific organizations working together to promote harmonization of global food safety regulations and legislation.

✦ Member, **The Global Food Safety Initiative (GFSI)**, a private organization, established and managed by the international trade association, the Consumer Goods
Forum under Belgian law in May 2000. The GFSI maintains a scheme to benchmark food safety standards for manufacturers as well as farm assurance standards.

- Member and vice chairman, **Ethiopia Nutrition Leaders Network (ENLN)**, the objective of which is to transform nutrition action in Ethiopia through a strong network of nutrition leaders

- Member, **Ethiopian Public Health Association (EPHA)**, Addis Ababa, Ethiopia.

- Member, **Food and Nutrition Society of Ethiopia (FoNSE)** Establishment of the Society [2006] to date, Addis Ababa, Ethiopia.

**Research Grants and Awards**

- **Intra-ACP ARISE Scholarship** (Africa Regional International Staff/Student Exchange: Food Security and Sustainable Human Well being), Makerere University, June 2017, Kampala, Uganda.

- **Visiting Research Fellowship Award**, Humboldt-Universität zu Berlin (Berlin), and Hamburg University (Hamburg), Germany, September to February, 2015/2016.

- **Appreciation Award** for excellence in teaching and other academic activities in the then School of Chemical & Food Engineering, Institute of Technology, Bahir Dar University, December 2012, Bahir Dar, Ethiopia.

**Fellowships Obtained**

- **DAAD/RUFORUM Scholarship Award** to pursue **PhD Degree in Food Science & Nutrition**, Jomo Kenyatta University of Agriculture & Technology, May 2013, Nairobi, Kenya.

- **NUFFIC Short Training Fellowship Award** for a two-month training on **International Course in Milk Processing and Quality**, September to October 2011, Oenkerk (PTC+), The Netherlands.

**Journal Peer Review**

- **Full Reviewer**, African Journal of Food, Agriculture, Nutrition and Development (AJFAND), a peer-reviewed, scholarly, online journal publishing articles in the areas of food, agriculture, nutrition, and development. Since 2014.
Invited Peer Reviewer for several Journals and Proceedings in the area of Food Science, Technology and Nutrition including:

- Amhara Agricultura Research Institute (Proceeding)
- Ethiopian Institute of Agricultural Research
- Croatian Journal of Food Science and Technology
- Ethiopian Journal of Agricultural Sciences
- Food Science and Nutrition, Whiley
- Ethiopian Journal of Science and Technology
- Journal of Insects as Food and Feed
- Journal of the Institute of Brewing
- Process Biochemistry
- Journal of Food Research

References

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Dr. Mulat Abegaz, Owner and Consultant, Quality Inspection, Testing and Certification (QITC) Services PLC, Addis Ababa, Ethiopia. E-mail: mulatabegaz@yahoo.com; Tel: +251-930177610

Dr. John Kinyuru, Senior Lecturer, Department of Food Science and Technology, Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya., E-Mail: jkinyuru@agr.jkuat.ac.ke; Tel: +254-723667432

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