



CURRICULUM VITAE

Masresha Fetene, Prof.

I PERSONAL DATA

Name	Masresha FETENE
Date & place of birth	December 15, 1954, Mertolemariam, Ethiopia
Sex	Male
Nationality	Ethiopian
Institution	Addis Ababa University College of Natural Science Department of Plant Biology and Biodiversity Management P. O. Box 30193, Addis Ababa, Ethiopia
Private	Gulele Sub-city, Wereda 08, House 1144, Addis Ababa, Ethiopia Tel ++251 911 881728

II EDUCATION

1991-1992	Post-doctoral Research Scientist, University of Bayreuth, Germany <i>Area of research: Sink source relations in plants</i>
1987-1990	PhD in Plant Ecophysiology - December 1990, Institute of Botany, Technische Hochschule Darmstadt, Darmstadt, Germany.
1983-1995	MSc in Botany - November 1985, School of Graduate Studies, Addis Ababa University (AAU), Ethiopia.
1976-1982	BSc in Biology - July, 1982, Department of Biology, AAU, Addis Ababa, Ethiopia.

III EMPLOYMENT HISTORY

2014 - 2020	Executive Director, Ethiopian Academy of Sciences, Addis Ababa, Ethiopia
2002 -	Professor – Department of Plant Biology and Biodiversity, College of Natural Sciences, Addis Ababa University, Addis Ababa, Ethiopia,
1996-2002	Associate Professor, Department of Biology, Addis Ababa University,
1993-1996	Assistant Professor, Department of Biology, Addis Ababa University,
1991-1992	Research Assistant, Universität Bayreuth, Lehrstuhl für Pflanzenphysiologie, Germany,
1985-1987	Lecturer, Department of Biology, Addis Ababa University,
1983-1985	Graduate Assistant, Department of Biology, Addis Ababa University, Addis Ababa,

IV AWARDS AND FELLOWSHIPS

2022-	Co-President, InterAcademy Partnerships- the global network of academies of sciences, engineering and medicine
2019-	Co-Chair IAP (InterAcademy Partnerships) Policy - the global network of academies of sciences, engineering and medicine
2016	Awarded the International Professional Certificate of STI Policy Management from the International Science, Technology and Innovation Center for South-South Cooperation under the auspices of UNESCO
2016	Elected Fellow of the African Academy of Sciences
2015	Appointed by the Deputy Prime Minister of Ethiopia as a member of the National Council for Science, Technology and Innovation
2014	Certificate of recognition for dedicated service to Addis Ababa University
2013	Research Fellowship (summer) Alexander von Humboldt Foundation
2011	Appointed as member of the International Jury for the Selection of International Climate Protection Fellowship for young climate experts from developing countries, Alexander von Humboldt Stiftung
2010	Elected Fellow of the Ethiopian Academy of Sciences
2006	Summer Research Fellowship, SIDA, Umea, Sweden

2003 -	DAAD Summer Research Fellowship
2000-2001	Alexander von Humboldt Research Fellowship
1994	UNESCO-ICRO – Short-term Research Fellowship Award
1991 - 1992	Research Fellowship, German research Foundation
1987 - 1991	German Academic Exchange Service (DAAD) PhD Fellowship
1983	Addis Ababa University Dean’s List (Distinction Class)

V ACADEMIC/ PROFESSIONAL RESPONSIBILITIES

• Executive Director, Ethiopian Academy of Sciences (EAS) (2014 -

- Initiated the idea of establishing an Ethiopian Academy of Sciences by creating and leading an email discussion group (2008), established and led an Ad-hoc Committee for the purpose and organized a National Conference to discuss the idea in detail (2009) by soliciting funds from UNESCO. Became Secretary of the Launching Board which developed the draft Statutes of the Academy and criteria for membership, selected the first 49 members and officially launched EAS in April 2010; becoming the first Vice President of EAS.
- Generated funds for the Secretariat and for the *Quality of Science Education in Ethiopian Schools* and *Health and Nutrition* studies of the Academy (2011) from the Royal Society London and the US National Academy of Sciences.
- Generated funds from Pfizer through the Royal Society to conduct the First Science Congress of the Academy (November 2011), a well-attended Congress, including by several international scholar. Chaired the Organizing Committee.
- Organized the 9th Annual Meeting of African Science Academies (AMASA 9) held in Addis Ababa, November 11-12, 2013 on *Biotechnology for Africa’s Development* in which all African science academies and celebrated biotechnology experts from far and wide took part with significant declarations for policy makers in the continent.
- Solicited funds from the US NAS and convened all national science academies of Africa for a workshop held in Addis Ababa (November 13 - 14, 2013) on *Climate change implications for Africa: New findings and new*

research steps for the National Academies of Sciences.

- Worked as Executive Director of EAS starting January 2014:
 - ✚ Formulated, generated funds for, and implemented several major projects such as the Ethiopian Panel for Climate Change – EPCC (funded by DFID and the Norwegian and the Royal Danish Governments through the SCIP program–Strategic Climate Initiative Program) - which culminated in a nine-volume publication of the First Assessment Report: Impact of Climate Change in Ethiopia discussed in several workshops and widely distributed.
 - ✚ Formulated, generated funds for and implemented several Consensus studies: (i) National Research Councils: Establishment and Operational Modalities (funded by SIDA –Swedish International Development Agency); (ii) The scientific and technological human resources supply and demand in Ethiopia (funded by the Ethiopian Ministry of Science and Technology); (iii) Biotechnology for National Development: Curricular, infrastructural, investment, marketing and biosafety requirements (funded by the National Taskforce on Biotechnology); (iv) The evaluation and accreditation of scientific journals: Towards developing standard procedures and systems (funded by SIDA and Ministry of Science and Technology).
 - ✚ Forged strong links, initiated joint programs and activities with continental and international science academies; examples:
 - With the Academy of Sciences of South Africa (ASSAf) and Ghana Academy of Arts and Sciences and Leopoldina-German Science Academy Symposium and Workshop on *Environmental Health*.
 - With the African Academy of Sciences (AAS) a Workshop on *Development of an Enabling Scientific Equipment Policy in Africa* and with AAS AESA on Proposal Development Workshop for Early- to Mid-Career African Scientists Addis Ababa, July 13-16, 2015
 - With the Network of African Science Academies (NASAC) on *Policy Makers Booklet on Agricultural Biotechnology*
 - With the US National Academy of Sciences (US NAS) - on *Investigating on Young Children Globally and National Research Councils – Establishment Modalities*.

- With the Royal Society of London- on the *Establishment of STI Professional National Databases*.
- ✚ Established the first Science Centre in the country within the premises of the Academy to inspire the youth and create a passion for science, and mobilized resources for the Centre.
- ✚ Organized several training workshops for multi-sectoral groups such as on (i) Science, technology and innovation for policy makers, (ii) Result based management of research projects; (iii) Project Management Cycle; and (iv) Writing winning research proposals.
- ✚ Organized monthly public lectures on critical science, technology and innovation issues as well as on issues of national importance such as on *Soil Health, Mental health in Ethiopia, Ebola, Earthquakes and land movements, Technology Transfer, Malaria and its Ecological Control, etc.*
- ✚ Organized, generated funds for and organized the 2nd Science Congress of the Ethiopian Academy of Sciences, November 15-16, 2015 under the theme *Re-envisioning Higher Education and Research in Ethiopia* – a Congress that produced a 12-point Declaration –chartering a new direction for higher education and research in Ethiopia.

- **Vice President for Research and Graduate Studies, Addis Ababa University (2009-2013)**

- Established the office of the Vice President for Research with three directorates, i.e. Research, University-Industry Linkage and Community Service.
- Established three new research institutes: the Institute of Biotechnology, the Ethiopian Institute of Water Resources and the Institute of Development and Policy Research.
- Formulated and implemented research strategies and appropriate policies (AAU Research Policy, AAU Research Priorities, AAU Research Incentives, AAU Research Manual, AAU IP Policy) and procedures for the successful implementation of the research vision of Addis Ababa University.
- Initiated and oversaw the growth and expansion of graduate studies at

AAU through the introduction of new programs (over 35 new Masters and over 25 new PhD programs) and curriculum revision, in the growth of graduate student admission (e.g., PhD student enrolment from 200 to 2500) as well as quality improvement programs such as visiting scholarship schemes and formation of consortia.

- Facilitated, promoted and supported interdisciplinary and collaborative thematic research projects that could have a major impact on national development (environment, water, energy, food security, education, health, etc.).
- Initiated, supported and oversaw the establishment of the first Technology Incubation Center at Addis Ababa University to provide an environment for innovation, entrepreneurship and new business growth.
- Established a system of research and outreach service management for the University.

• **Director and General Editor of Addis Ababa University Press (2006-2011)**

- Oversaw the growth of the publications of AAU Press both in number and diversity.
- Developed a strategic plan for Addis Ababa University Press and a way forward.
- Identified and promoted niche areas of publication for the Press.
- Oversaw the growth of the Press in terms of human resources and budget.

• **Associate Dean for Research and Graduate Programs of the Faculty of Science, Addis Ababa University, 2001- 2004**

- Established the new Office of Associate Dean for Research and Graduate Programs in the Faculty, generated fund and equipped and streamlined the Office into office service, student record and research and the documentation centers.
- Coordinated Faculty graduate program expansion and increased graduate intake.
- Developed faculty research review and evaluation schemes and facilitated fund utilization.

- Organized use of pulled resources enhancing and facilitating research.

- **Co-coordinator, Environmental Science Program of the Faculty of Science Addis Ababa University 2001- 2004**

- Initiated and established an inter-departmental Masters Program in Environmental Science.
- Led the successful development of a multidisciplinary Masters environmental science curriculum and teaching.
- Coordinated research on relevant environmental problems.

- **Head, Department of Biology, Addis Ababa University, 1997- 2000**

- Coordinated the internal and external review of the activities of the Department on teaching and research.
- Generated funds and established a partnership program with three German universities (Marburg, Darmstadt and Bayreuth) on a joint graduate teaching and research program that still runs successfully.
- Assisted in the establishment of the East African Research Network for Research in biotechnology, bio-safety and molecular biology.
- Worked with ICIPE- International Center for Insect Physiology and Ecology for the creation and realization of the ARRPIS - African Regional Postgraduate Program in Insect Science. Hosted several meetings of the Academic Board in Addis Ababa, and coordinated the program for the East African node.
- Worked for the establishment of an East Africa-wide regional graduate program in biodiversity studies- RPSUD – Regional Program in Sustainable use of Dry land resources and ran the program successfully at Addis Ababa University.

- **Secretary of the Biological Society of Ethiopia (1996-2000)**

- Raised over half a million Birr for the activities of the Society.
- Increased membership of the Society by three-fold.
- Worked on a wide participation of members and professionals at large in regular conferences and symposia.
- Organized several widely attended workshops, symposia and panel discussions and conferences with prominent participants on actual and

pertinent problems on topics such as the *Recurrence of drought and preparedness in Ethiopia*, *Value of our biodiversity*, *Investment enhancement and environmental protection*.

- **Editor-in-Chief of *SINET- Ethiopian Journal of Science* (1996-2004)**

- Led and guided the growth of the journal to regional and international importance by working on quality review system, faster publication process and increased and circulation.

VI

INTERNATIONAL RESEARCH FUND AND COLLABORATION

- Principal Investigator of a multidisciplinary research project funded by the Ethiopian Minister of Science and Technology (Birr 3,000,000) on *Integrated control of Bacterial Wilt in Enset* in which researchers from Germany are involved- **on-going**.
- Principal Investigator of Project 1 of the **Bio-Innovate** (Bio-Resources Innovations Network for Eastern Africa Development Program), involving scientists from Ethiopia, Kenya, Tanzania and Uganda on Improving Sorghum for Improved Livelihoods with research funds to the tune of USD 5,000,000 (2010-2015). Completed
- Co-Principal Investigator of the regional **BIO-EARN** (East African Regional Program and Research Network for Biotechnology, Biosafety and Biotechnology) research program, Phase III on *Sorghum for drought resistance*, involving Ethiopia, Kenya, Uganda and Tanzania, (2006-2009). Completed
- Generated grant from SIDA/SAREC (Sek 1,500,000) for the *Drought resistance in indigenous crops of Ethiopia* project in which researchers from the University of Uppsala, (Sweden), Swedish University of Agricultural Sciences (Uppsala) (Sweden), University of Bonn, Bonn (Germany) and Addis Ababa University and Debub University from Ethiopia take part. Completed.
- Sub-project Principal Investigator for an international research collaboration on *Conservation and use of wild populations of Coffea arabica L. in rainforests of Ethiopia* – funded by the German Federal Ministry of Education and Research, Center for Development and the German Research Council – DFG. Completed.
- Initiated and generated fund for a multidisciplinary research project on *Regeneration of an Ethiopian montane Forest (Munessa-Shashemene*

Forest) with special emphasis on tree biology and nurse tree functions in which the University of Bayreuth, University of Halle and University of Tübingen (Germany), Addis Ababa University (Ethiopia), Ethiopian Agricultural Research Organization, EARO (Ethiopia) and Institute of Biodiversity Conservation. Funded by the German Research Council (DFG) - Completed.

- Mobilized fund for research on *Regeneration ecology of woody plants at tropical timberlines* with the Martin-Luther-University Halle Wittenberg, and University of Marburg, Germany and the Institute of Biodiversity Research and Addis Ababa University, Ethiopia. Financed by the German Research Council and German Federal Ministry of Education and Research, Center for Development. Completed.
- Generated fund for research on *Ecological investigations on the vegetation of upland ecosystems in Ethiopia* - a collaborative research between Addis Ababa University (Ethiopia) and the University of Bayreuth, Germany. Funded by Volkswagen-Stiftung, Germany. Completed.
- Garnered financial support for the *Towards a sustainable management of the Munessa Forest, Ethiopia: Fundamentals of geobotany, soil science and plant physiology* research from the German Research Foundation (DFG) - with several Ethiopian and German scientists from University of Bayreuth. 2000- 2003. Completed.
- Obtained fund for a joint research project with the University of Bayreuth, Germany, for a project entitled *Ecological investigations on the vegetation of afroalpine regions in Ethiopia*, funded by the Volkswagen- Stiftung, Germany. Completed.

Other funded Research Projects

- Ecophysiological investigations on influence of drought stress on local chickpea accessions. Funded by the Ethiopian Science and Technology Commission B Local Projects Program. Completed.
- Ecophysiological investigations on indigenous woodland tree species for use in agroforestry systems. Funded by the Research and Publication Office, Addis Ababa University. Completed.
- Investigations on the growth characteristics of woodland tree species. Funded by the United Nations Food and Agriculture Organisation (FAO) Contract Research Agreement. Completed.
- Germination and seedling establishment of selected woodland tree species. Funded by the African Academy of Sciences (AAS). Completed.

VII MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

- Chairman of the Board of Directors, *Forum for Environment*
- Advisory Board Member of the *Ethiopian Journal of Natural Resources*
- Board Member of the Addis Ababa University Press
- Founding member of the African Forestry Network since 1999
- Member of the African Mountains Association, since, 1986
- Member of the *German Botanical Society*, Since, 1989
- Founding member of *NAPRECA* (Natural Products Network for East and Central Africa) since 1984.
- Member of the *Ethiopian Crop Science Society* since 2003
- Member of the *Ethiopian Soil Science Society* since 1998
- Founding member of the *Getachew Bolodia Foundation* since 1998
- Founding member of the *Biological Society of Ethiopia*, Since 1990
- Founding member and President of the *Ethiopian Society of Humboldt Fellows*, Since 2002
- Member of the *Ethiopian Heritage Trust* since 1996
- Member of the *Ethiopian Wildlife and Natural History Society* since 1986

VIII NATIONAL, REGIONAL AND INTERNATIONAL WORKSHOPS, SYMPOSIA AND CONFERENCES ORGANIZED

- Organized the workshop on Green Technology: Potential, Current Status and Required Steps, Addis Ababa, February 2016.
- Organized the 2nd Science Congress of the Ethiopian Academy of Sciences on the theme *Re-envisioning higher education and research in Ethiopia*, November 2015
- Organized the *Traditional education and lessons for modern education* symposium Addis Ababa, October 2015.
- Organized the 9th Annual Meeting of African Science Academies (AMASA 9) under the theme *“Science and Technology: The survival of a nation”*, Addis Ababa, November 2013.
- Organized the First Science Congress of the Ethiopian Academy of Sciences as Chairman of the Organizing Committee, Addis Ababa, November 2011.
- Organized the National Conference on the establishment of an Ethiopian Science Academy with support from UNESCO, November 2009.

- Organised the *International Conference on Biodiversity 2000* together with the Linnaean Society of London, March 2000.
- Assisted the organization and conduct of the First International Conference on AIDS in Africa in 2000 in which The Biological Society of Ethiopia was the local host.
- Organised (as Secretary of the Biological Society of Ethiopia) an East Africa-wide regional conference on *Valuing Our Biodiversity* February 1999, Awassa, southern Ethiopia.
- Organised (as Editor-in-Chief of SINET: Ethiopian Journal Of Science) a review conference on *Twenty Years of SINET*, June 1998, Faculty of Science, Addis Ababa University, Addis Ababa.
- Organised and moderated a series of panel discussions on environment, biodiversity, drought, famine and food security at Addis Ababa University in 1998 and 1999, Addis Ababa.
- Organised the 6th, 7th, 8th and 9th Annual Conferences of the Biological Society of Ethiopia.

IX REVIEW SERVICE: Journals

- Subject Editor of *Biotropica* (Published by the International Association of Tropical Ecologists).
- Reviewer for the following national and international journals:
 - *Sinet: Ethiopian Journal of Science*
 - *Ethiopian Journal of Natural Resources*
 - *Ethiopian Journal of Biological Sciences*
 - *African Journal of Ecology*
 - *Trees: Structure and Function*
 - *Annals of Botany*
 - *New Forests*
 - *Plant Biology*

Project Proposals Review

Reviewer for project proposals for:

- Ethiopian Science and Technology Commission
- Research and Publication Office of AAU
- African Academy of Sciences
- **AFORNET** African Forestry Regional Network

- German Research Council **DFG**- Deutsche Forschungsgemeinschaft

X TEACHING EXPERIENCE

Biological Subjects (Undergraduate program)

- Principles of Biology, Cell Physiology, Plant Physiology

Biological Subjects (Postgraduate program)

- Advanced Plant Physiology, Physiological Ecology
- Soil Science and Plant Nutrition, Plant Stress Physiology
- Field Methods in Plant Ecophysiology, Tropical Ecosystems
- Project Design and Research Methods

Environmental Science Subjects

- Biological Resources Management, Conservation of Natural Resources
- Land Degradation and Desertification, Environmental Management
- Environmental Impact Assessment

XI TRAINING WORKSHOPS ORGANIZED AND OFFERED, CONSULTANCIES

- Served as a leading consultant on baseline study on *The status and role of economically and socially important but threatened plant species towards achieving food security in Dibate Woreda, Benishangul Gumuz Regional State* for Canadian Physicians for Aid and Relief (CPAR), August - October, 2005.
- Provided training on *Environmental Impact Assessment* to Woreda Agricultural Experts of Oromia Region - ToT Training. ENVIRONMENTAL AND SOCIAL MANAGEMENT FRAMEWORK (ESMF) COMPONENT in Nazeret, November 10-14, 2005.
- Provided training on Productive Safety Net Programme: Public Works Wereda-level ToT Training. ENVIRONMENTAL AND SOCIAL MANAGEMENT FRAMEWORK (ESMF) COMPONENT to Wereda Agricultural Experts of Ormoia Region at Harer August 30 – September 2, 2005.
- Offered training on *Environmental Impact Assessment* for CPAR staff at Nefas Mucha, Lai Gaint Zone South Gonder, October 4-9, 2004.
- Organized and participated on a training program on *Environmental Management* for participants drawn from regional environmental bureaus, September 17 to October 13, 2004, Addis Ababa.
- Organized and offered a training program on Environmental Impact Assessment for participants drawn from regional agricultural research organizations, June 2002.
- Led and participated in a task force organized to identify gaps and draft strategies on

environmental studies in Ethiopia, February 2002.

- Drafted *Environmental Study Program* content for Environmental Science Students June, 2001.
- Organized a workshop on Environmental Impact Assessment to Regional Biodiversity study participants, October 1999.
- Organized a series of seminars on food security, population growth, drought and Environment, May 1996, November 1997, March 1998.

XII MSc THESES ADVISED

- 1) Sara Sintayehu (2015) The Study of Morpho-Physiological Characters in Sorghum (*Sorghum Bicolor* (L.) Moench) Introgression Lines Under Post-Flowering Drought Stress. Department of Biology, Addis Ababa University.
- 2) Eyerusalem Arusi (2015) Physiological Indices for Drought Tolerance in Stay-green Sorghum (*Sorghum bicolor* L. Moench) Accessions. Department of Biology, Addis Ababa University.
- 3) Getinet Zelalem (2014) Physiological and Agronomic Performance Evaluation of Stay Green (SG) Sorghum (*Sorghum bicolor* (L.) Moench) Varieties at Shewa Robit, Amhara Regional State, Ethiopia. Department of Biology, Addis Ababa University.
- 4) Awol Assefa (2012) Agro-Morphological, Physiological and Yield Related Performances of Finger Millet [*Eleusine coracana* (L.) Gaertn.] (Poaceae) Accessions Evaluated for Drought Resistance under Field Condition. Department of Biology, Addis Ababa University.
- 5) Addis Anteneh (2010) Drought Resistance of Sorghum Accessions Department of Biology, Addis Ababa University.
- 6) Hiwot Hailu (2010) Shade tolerance of *Coffea arabica* accessions. Department of Biology, Addis Ababa University.
- 7) Zelalem Menigiste (2008). Evaluation of post flowering drought resistance Physiological Characterization of Ethiopian Sorghum (*Sorghum bicolor* [L] Moench) Germplasm Accessions for Post-flowering Drought Tolerance.
- 8) Dagnachew Bekele 2008. Genetic diversity in sorghum (*Sorghum bicolor* (L) Monench) Germplasm accessions collected from the major drought-prone areas of Ethiopia based on quantitative and qualitative traits. Department of Biology, Addis Ababa University.
- 9) Abebe Worku 2007. Fine root biomass of *Erica trimera* (Engl.) along an altitudinal gradient on Bale Mountains, Ethiopia. Department of Biology, Addis Ababa University.
- 10) Bezawit Eshetu 2007. Nutrient composition of maize and its microbial degradation. Department of Biology, Addis Ababa University.

- 11) Elisabet Bizuayehu. 2007. Comparison among maize (*Zea mays*) varieties in relation to pollen production and nutrient composition. Department of Biology, Addis Ababa University.
- 12) Yitbarek Tibebe (2007). Economic evaluation of gully rehabilitation; a case study at Farta Woreda, in Southern Gondar, Ethiopia. Environmental Science Program, Addis Ababa University.
- 13) Abiy Kebede 2007. Soil degradation assessment along the slope gradient of the cultivated fields in Adulala Mariyam-Wakemia catchment, Adama Woreda, East Shoa Zone. Environmental Science Program, Addis Ababa University.
- 14) Dagneb Belay 2007. Assessment of causes and extent of land degradation in Hashenge catchment, Southern Tigray. Environmental Science Program, Addis Ababa University.
- 15) Hussien Endris 2007. Seasonal and spatial distribution of fine root biomass in two deciduous and two evergreen trees in Munessa Forest Southern Ethiopia. Department of Biology, Addis Ababa University.
- 16) Girum Woldegeorgis 2007. Assessment of soil quality and erosion rate in Lume Woreda, Kinie Catchment. Environmental Science Program, Addis Ababa University.
- 17) Getahun Yemata 2007. Growth, biomass partitioning and physiological responses of three chickpea (*Cicer arietinum* L.) accessions subjected to moisture stress at two phosphorus levels. Department of Biology, Addis Ababa University.
- 18) Ayalew Talema, 2006. Growth of two clones of Enset (*Ensete ventricosum* (Welw.) Cheesman) under seasonally irrigated and non-irrigated conditions. Department of Biology, Addis Ababa University.
- 19) Adefires Worku 2006. Population status and socio-economic importance of gum and resin bearing species in Borana lowlands, southern Ethiopia. Department of Biology, Addis Ababa University
- 20) Asnake Mekuriaw 2006. The role of land use on impacts of drought in Shebel Berenta Wereda, Amahara National Regional State, Ethiopia. Environmental Science Program, Addis Ababa University.
- 21) Belayneh Ayele 2005. Land degradation assessment and evaluation of current landuses and soil conservation structures at upper Chena Catchment, South Environmental Science Program, Addis Ababa University.
- 22) Habtu Lemma 2005. Cactus (*Opuntia ficus indica*) in southern Tigray: Current status, potential use, utilization and threats. Environmental Science Program, Addis Ababa University.
- 23) Fikru Meko 2005. Studies on some drought resistance characteristics of wild Coffee populations. MSc Thesis. Department of Biology, Addis Ababa University
- 24) Abdi Itana 2005. Woody species diversity and soil nutrients in relation to fire incidence in

- selected sites of Awash national Park, Eastern Ethiopia. Department of Biology, Addis Ababa University
- 25) Kebede Jobir 2005. Comparison of growth and yield of apple tree cultivars at three altitudes in Gamo Gofa Zone, South Ethiopia. Department of Biology, Addis Ababa University.
 - 26) Malo Oguna Meshack 2004. Analysis of the status of a mixed semi-arid woodland in response to charcoal production in Elangata Wuas, Kajiado District, Kenya. Department of Biology, Addis Ababa University.
 - 27) Yigremachew Seyoum 2004. Seed source variation in drought tolerance of *Cordia africana* Lam. Seedlings. Wondogenet College of Agriculture, Debub University
 - 28) Melku Molla 2004 Ecological investigations on the Afroalpine environment of Guna Mountains, South Gonder. Department of Biology, Addis Ababa University.
 - 29) Dessalgene Tadelle 2004. Growth and establishment of seedlings of indigenous species in plantations and adjacent natural forest. Department of Biology, Addis Ababa University.
 - 30) Monika Kafamu 2003. The biology and potential for agroforestry of two miombo tree species in Tanzania. Department of Biology, Addis Ababa University.
 - 31) Getachew Tesfaye 2001. Regeneration ecology of high forest species in Harrena forest. Department of Biology, Addis Ababa University.
 - 32) Yoseph Assefa 2001. Physiognomy and characteristics of tree-line species Department of Biology, Addis Ababa University.
 - 33) Yemane G/Egziabeher 2001. Influence of cold stress on barley varieties and landraces. Department of Biology, Addis Ababa University.
 - 34) Frew Kebede, 1999. The effect of nitrogen and phosphorus stress on the growth and physiology of Enset (*Enset ventricosum*). Department of Biology, Addis Ababa University.
 - 35) Gemedo Dalle, 1999. Tree seedlings and saplings in tree-fall gaps and tree under canopies in Shashemene Munessa natural forest. Department of Biology, Addis Ababa University.
 - 36) Yonas Feleke, 1999. Ecophysiological investigations on influence of drought stress in eight chickpea accessions. MSc Thesis. Department of Biology, Addis Ababa University.
 - 37) Solomon Zewdie, 1998. Effect of *Azospirillum* isolates on the growth and nitrogen content of tef (*Eragrostis tef* (Zucc. Trotter). MSc Thesis. Department of Biology, Addis Ababa University.
 - 38) Teklehaimanot Haileselassie, 1997. Root architecture and rooting patterns of acacia species in the Rift Valley. Department of Biology, Addis Ababa University.
 - 39) Almaz Tadesse, 1997. Biomass production and nutrient status of three range grasses of Awash. Department of Biology, Addis Ababa University.

- 40) Asferachew Abate 1994. Investigations on canopy features of three indigenous woodland tree species of Ethiopia. Department of Biology, Addis Ababa University.
- 41) Menassie Gashaw, 1994. Ecological investigations on the Vegetation of the Bale Mountains National Park. Department of Biology, Addis Ababa University.

XIII DOCTORAL THESES ADVISED

1. Awol Assefa (2020) Agroforestry values of Ethiopian woodland species. Addis Ababa University.
2. Bruktawit Lemma (2020) Prevalence of Bacterial wilt in enset and its resistance in different ecological zones. Addis Ababa University.
3. Solomon Endris (2019) Analysis of the drought response of sorghum [*Sorghum bicolor* (L.) Moench] to potassium and blended fertilizer inputs in semi-arid northeastern Ethiopia. Addis Ababa University
4. Getahun Yemata (2016) Interaction of Bacterial Wilt Disease and Water stress in Enset Addis Ababa University
5. Dagnachew Lule (2015) Assessment of Genetic Diversity Genotype by Environment Intetaction, Blast (*Mangnaporthe oryzae*) Disease Resistance and Marker Development for Finger Millet. Germplasm from Ethiopia and Introduced. Institute of Biotechnology, Addis Ababa University.
6. Kebede Jobir (2014) Apple root stock and soil interaction. Addis Ababa University
7. Yemane Gebre Egziabher (2014) Drought resistance of selected sorghum accessions, Addis Ababa University
8. Yigremachew Seyoum (2012) Co-existence of three functional groups of indigenous tree species in Munessa Forest.
9. Yigardu Mulat (2012) The Ecophysiology of highland bamboo in Choke Mountains. Department of Biology, Addis Ababa University
10. Frew Kebede (2012) Nitrogen use efficiency of *Enset ventricosum*. Department of Biology, Addis Ababa University
11. Maria Johansson (2012) Fire Ecology and regeneration of *Hagenia abyssinica* in the highland of Bale. Department of Forest Vegetation Ecology, Swedish University of Agricultural Sciences SE - 901 83 Umeå, Sweden (Co-supervisor)
12. Simone Stroble (2012) Ecophysiology of tree seedlings under nurse trees in Munessa, Ethiopia. University of Bayreuth, Department of Plant Physiology, Bayreuth, Germany.
13. Tefera Mengistu (2011) Ecolphysiology of *Boswellia papyrifera*. Wageningen University, The Netherlands (Co-supervisor)
14. Getachew Tesfaye (2008) Regeneration and ecophysiology of indigenous tree species of Munessa Shashemene Forest. Addis Ababa University, Ethiopia

15. Aster Gebrekirstos (2007) Stable carbon isotope ratios in tree rings of co-occurring species from semi-arid tropics in Africa. University of Gottingen, Germany
16. Pascal Nauke (2006) The ecology of *Kniphofia foliosa* in the Ericaceous belt of the Bale Mountains. University of Bayreuth, Germany.

XV THESES

1. **Fetene, M.** (1985). The effect of water stress on the growth and physiology of cowpeas, *Vigna unguiculata* L. Walp. M.Sc. Thesis, Addis Ababa University
2. **Fetene, M.** (1990). Comparative environmental physiology of a terrestrial CAM bromeliad, *Bromelia humilis* Jacq and a highland Kalanchoe, *Kalanchoe petitiiana* A. Rich. Doctoral Dissertation, Technische Hochschule Darmstadt, Germany

XVI PUBLICATIONS IN PEER REVIEWED JOURNALS, BOOKS AND BOOK CHAPTERS

1. Awol Assefa Toib, Catherine Muthuri, Aster Gebrekirstos, Kiros Hadgu and Masresha Fetene (2024). Tree growth and wheat productivity are affected by pollarding *Faidherbia albida* in semi-arid Ethiopia. *Agroforestry Systems* DOI:10.1007/s10457-023-00948-7.
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XVII Languages

- English Excellent
- German Good
- French Slight
- Amharic Mother tongue

References

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