

Curriculum vitae

Personal information	
Name	Mulugeta Kebede Tesissa (PhD)
Address	
Telephone	
Fax	
E-mail	
Nationality	
Date of birth	
Gender; Marital status	
Education (1)	
Degree:	BSc, 1992
Discipline:	Biology
Institution:	Addis Ababa University
Education (2)	
Degree:	MSc, 2000
Discipline:	Genetics /Cytogenetic study of some species of <i>Swertia</i> L. (Gentianaceae) from Ethiopia /
Institution:	Addis Ababa University
Education (3)	
Degree:	PhD, 2007
Discipline:	Genetics (Comparative Phylogeography and Conservation Genetics of some Afro-montane Plant Species from Ethiopian and Tropical East African Mountains based on AFLP data)
Institutions:	Addis Ababa University and University of Oslo - Sandwich program
Laboratory experience	At DNA Laboratory, Natural History Museums and Botanical Garden, University of Oslo, Norway; working on the molecular analysis of DNA samples collected from African Mountains - DNA extraction, quantification, electrophoresis, PCR amplification, fragment analysis such as AFLP, etc. (February, 2005 – August, 2006). Molecular methods such as DNA extraction, purification, Agaros gel electrophoresis,

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	<p>quantification, PCR, RFLP, etc. at Harmer Hansen Research Institute, Addis Ababa, Ethiopia (1999)</p> <p>Skilled in conventional cytological techniques (Chromosome fixation, staining and Microscopy), Mitotic and Meiotic chromosome morphological studies and Karyotype analysis. Addis Ababa University, Ethiopia (1999-2000).</p>
Field based research experience	<p>DNA sampling (collecting silica gel deride leafs) from afro-alpine flora to determine patterns of gene flow, dispersal and fragmentation of flora in the mountain systems of Ethiopia (Bale Mts.,Gara Muleta, Mt. Chilallo, Mt. Kaka, Simen Mountains and Mt. Choke) , Kenya(Aberdare, Mt. Kenya, Mt. Elgon and Charengani Hills), Tanzania (Mt. Kilimanjaro and Mt. Meru) and Uganda (Mt. Gahinga, Muhavura and Ruwanzuri Mountains). October 2003- November 2004 for Ethiopian, Kenyan and Tanzanian Mts. and July-August, 2008 for Ugandan Mts. The projects (AFROALP I and AFROALP II) were fund by NUFU.</p> <p>Field work in SNNPR, Ethiopia, to assess the impact of farming systems shift, from substance to commercially dominated one, on agro-biodiversity as well as the livelihood of small farm holder communities. (2010-2013). Financed by NORAD.</p> <p>Medicinal plants genetic diversity, sustainable use, phytochemistry and bioactivity evaluation project field work in SNNPR and Oromya regional states, Ethiopia. (2010-2013). Sponsored by NORAD.</p>
Computer skills and competences	Excellent use of basic computer skills (MS-Excel, MS-Word, MS-Access, MS-power point and other Microsoft accessories).
Statistical packages (application software)	Excellent skills in using ABI prism GeneScan version 3.7 analysis software (Applied Biosystems) to visualized AFLP patterns generated by Automated Sequencer ABI 3100, Genographer (version 1.6.) to import GeneScan files for scoring the fragments, Principal coordinate analysis using NTSYS-pc (Rohlf 1990) to visualize pair-wise similarities among the AFLP multilocus phenotypes, TREECON 1.3b (Van de Peer & De Wachter 1994) to estimate genetic distances, Nei's unbiased diversity estimator (Nei 1978) to estimate population genetic diversity, Analyses of molecular variance (AMOVA) using Arlequin 2.0 softwere to estimate genetic differentiation at different hierarchical levels, Population genetic structure/mixture analysis using Structure ver. 2.1 (Pritchard <i>et al.</i> 2000), and BAPS ver. 3.2 (Corander <i>et al.</i> 2006), R-script AFLPdat (Ehrich 2006) and other statistical packages
Work experience and posts held (1)	
Hawassa University	September 2000 to present
Main activities and responsibilities	<p>Involved in teaching undergraduate courses (Principles of Genetics, Evolution, Human Evolution, Research Methods and Report writing in Science) and postgraduate courses (Molecular Genetics, Techniques in Molecular Biology, Research Methods and Ethics).</p> <p>Advising postgraduate students for their thesis work and supervising undergraduate students</p>

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Involved in different administrative positions of Hawassa University: **Dean of College of Natural and Computational Sciences** (June 2011 to present), **Head, Department of Biology** (August 2009 to May 2011), **Hawassa University Continuing and Distance Education Division Coordinator** (January 2008 – July 2009)

Traveled to Indian cities (New Delhi, Chennai, Coimatore and Hyderabad) to recruit Indian Expatriates for Ethiopian Universities (Sep. 17- Oct. 7, 2009)

Harmonized Biology BSc curriculum for Ethiopian Universities at National level (July-August 2009)

Reviewed MSc Curriculum M.Sc in Biology (Botanical Sciences), Dilla University, Department of Biology; A National Curriculum Review Workshop on MSc and MaA programs, June 22, 2009, Dilla.

Graduate Curriculum development committee member for MSc in Genetics and Evolutionary Biology, MSc in Bioinformatics and PhD in Eco-toxicology. (January 2009)

Assistant professor of Genetics at Hawassa University (Sept., 2007)

PhD fellowship under the AFROALP-I project, entitled '*Afro-alpine 'islands' as natural laboratories: dynamics and unit of plant biodiversity*', funded from Norway by NUFU - NUFU PRO 54/2003 (October 2003 - August 2007).

Lecturer at Hawassa University, Natural Science Faculty, Applied Biology Department (Sept. 2000)

Science Faculty Continuing Education Program (CEP) Coordinator, Hawassa University (Oct. 2002 –Oct. 2003).

Science Faculty Academic Commission member Jan. 2002 – Oct. 2003.

General Agriculture Department Council member, Nov. 2000 – July 2001

Committee Member for the Curriculum Development Workshop for Natural and Social Sciences, Aug. 30-31/2001, at Hawassa University, Hawassa.

Work experience and posts held (2)	1992-2000
Addis Ababa University	Study for Masters of Science in Applied Genetics, Addis Ababa University, Addis Ababa, Ethiopia (1997-2000)
Shambu and Getema Senior Secondary Schools	Teaching Biology at Shambu and Getema Senior Secondary Schools (1992-1997)

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Social skills and competences	I am respectful, disciplined, trustworthy and compassionate. I am always quick on my feet with reasonable reactions in all the circumstances. I am capable of working smoothly and friendly with people of heterogeneous social and cultural backgrounds.
Research Interests	Evolutionary biology- Population, Ecological and Conservation genetics (gene flow/dispersal/migration, fragmentation and speciation); Biodiversity (gene, species and ecosystem diversity) and services provided by ecosystems; Agro-biodiversity, indigenous knowledge and sustainable life in the era of climate change.
Professional memberships	Active member of Biological Society of Ethiopia (BSE), Members of AETFAT, and the Environmental Society of Ethiopia.
Attended International Scientific Conferences, Trainings and Workshops	<p>International Deans' Course Africa 2015/2016- Part I held in Osnabruck and Berlin, Germany from June 22nd to July 3rd 2015. The IDC part one provided 50 hours of qualification in modern higher education management and leadership.</p> <p>Biofarming Training School held on September 15-20, 2014, Addis Ababa, Ethiopia. The training was organized by Edulink project of University Moils, Italy and Addis Ababa University, Ethiopia.</p> <p>Workshop on Palaeoclimate and Human Dispersal during Marine Isotope Stage 3. December 12 – 17, 2011; Channai, India. The workshop was organized by The Absus Salam International Center for Theoretical Physics (ICTP), Trieste, Italy; Anna University, Chennai, India and Consorzio per la Fisica, Trieste, Italy.</p> <p>Consultative meeting on strengthening biotechnology education and research in Ethiopia situation analysis and need assessment. Sept. 19 -21, 2011, Addis view Hotel, Addis Ababa, Ethiopia</p> <p>International Conference and Exhibition on Agricultural Biotechnology in Africa: Fostering Innovation. Economic Commission for Africa (ECA) Hall, Addis Ababa, May 13-15, 2011.</p> <p>International Conference on Ecosystem Conservation and Sustainable Development, Ambo University, Ambo, Ethiopia 10-12 February 2011.</p> <p>XVII AETFAT Congress, Yaoundé, Cameroon 26 February-2 March 2007.</p> <p>XVII International Botanical Congress, Vienna, Austria 17-23 July 2005.</p> <p>XVI AETFAT Congress, Addis Ababa, Ethiopia, October, 2003.</p>
Publications	

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Gizaw A, **Kebede M**, Nemomissa S, Ehrich D, Bekele B, Mirré V, Popp M, Brochmann C (2013) Confusingly similar morphology, ecology and distribution, but different history in the afro-alpine 'sky islands': the heathers *Erica arborea* and *E. Trimeria*. *Flora*, 208: 453-463.

Kebede M, Gizaw A, Ehrich E, Taberlet P, Nemomissa S, Brochmann C (2013) Phylogeography and conservation genetics of *Hypericum revolutum* (Hypericaceae) in the Ethiopian and East African mountains. *Manuscript ready for submission*

Kebede M, Nemomissa S, Brochmann C (2011) Genetic differentiation and conservation genetics of *Hypericum revolutum* (Hypericaceae) in Ethiopian mountains as inferred from AFLP data. ECOCASD 2011 Book of abstracts (p. 88). International Conference on Ecosystem Conservation and Sustainable Development, Ambo University, Ambo, Ethiopia, February 10-12, 2011.

Gizaw A, **Kebede M**, Nemomissa S, Ehrich D, Bekele B, Mirre V, Brochmann C, and Popp M (2010). Phylogeography of *Erica arborea* and *E. trimera* in the afro-alpine region based on AFLPs and chloroplast DNA sequence variation. *Scripta Bot. Belg.* 46 (pp.189)-AETFAT XIX-Madagascar, 2010.

Wondimu T, Brochmann C, Popp M, **Kebede M**, Mirré V, Suda J, Nemomissa S (2010) Phylogeny and biogeography of the African *Swertia*. XIX AETFAT Congress, Antananrivo, Madagascar, April 25 - 30, 2010.

Popp M, Gizaw A, Bekele B., Ehrich D, Assefa A., Nemomissa S, **Kebede M**, & Brochmann C (2008). Comparative phylogeography of Afro-alpine plants inferred from AFLP and plastid DNA variation. Xth Symposium of the International Organization of Plant Biosystematists, 2 – 4 July 2008, Vysoké Tatry, Slovakia

Kebede M (2007) Comparative Phylogeography and Conservation Genetics of some Afro-montane Plant Species from Ethiopian and Tropical East African Mountains based on AFLP data. PhD dissertation, Addis Ababa University, Addis Ababa and University of Oslo, Oslo.

Kebede M, Ehrich D, Taberlet P, Nemomissa S, Brochmann C (2007). Phylogeography and conservation genetics of a giant lobelia (*Lobelia giberroa*) in Ethiopian and Tropical East African mountains. *Molecular Ecology*, 16:1233-1243.

Kebede M, Assefa A, Ehrich D, Taberlet P, Nemomissa S, Brochmann C (2007). Comparative phylogeography and conservation genetics of some afro-alpine and afro-montane plant species based up on AFLP data. XVII AETFAT Congress, Yaoundé, Cameroun 26 February - 2 March 2007.

Bekele B, Ehrich D, **Kebede M**, Brochmann C, Nemomissa S (2007) The *Swertia*

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abyssinica complex in the afro-alpine mountains: parallel ecoclinial evolution or secondary contact between differentiated glacial gene pools? XVIII AETFAT Congress, Yaoundé, Cameroun 26 February - 2 March 2007.

Kebede M, Assefa A, Taberlet P, Brochmann C, Nemomissa S(2005) AFROALP - Phylogeography, glacial refugia, and conservation of the unique afro-alpine ecosystem: a new project. XVII International Botanical Congress, Vienna, Austria 17 – 23 July 2005.

Kebede M (2000) Cytogenetic study of some species of *Swertia* L. (Gentianaceae) from Ethiopia. M.Sc. thesis, Addis Ababa University, Addis Ababa, Ethiopia.

Contact Referees

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