

CURRICULUM VITAE

Name: Trygve Berg
Date of birth: 24 September 1946
Citizenship: Norwegian
Home address/phone: Granveien 21b, 1430 Ås, Norway, 64941573
Office address/phone: P.O.B. 5001, 1432 Ås, 64965318
Correspondence address: Office address.

PROFESSIONAL INTERESTS

Tropical agricultural systems, plant genetic resources, community management of plant genetic resources, Intellectual property rights of genetic resources.

EMPLOYMENT

1987 to present: Associate professor, Noragric.
1982-86: Norwegian Church Aid/Sudan Programme:
1982-84: Head of Agronomy Research unit,
1984-85: Coordinator of Agricultural Project,
1985-86: Adviser to Sudanese leaders.
1977-82: Researcher, Fureneset Agr. Research Station.
1976-77: Consultant, Head Office of Agr. Res. Stations of Norway.
1970-76: Scientific Assistant, Institute of Genetics and Plant Breeding,
Agricultural University of Norway.

ASSIGNMENTS/PROJECTS UNDERTAKEN

- Project leader for research collaboration between Norwegian university of Life sciences/Noragric and University of Hawassa, Ethiopia, 1989 - 2008.
- Project leader for research collaboration between Norwegian university of Life sciences/Noragric and University of Juba and Upper Nile, the Sudan, 2008 - .
- Miscellaneous short-term assignments in Bhutan, Ethiopia, Kenya, Liberia, Mali, Mozambique, Nigeria, India, Laos, Philippines, Vietnam, Zimbabwe and Zambia.
- Opposition in doctoral defence:
 - 1999: Malcolm Jusu: Genetic Variability in Rice in Sierra Leone,
 - 2001, Almaz Negash: Diversity and conservation of Enset in Ethiopia,
 - 2002: Admasu Tsegaye: Production, genetic diversity and crop ecology of enset. All at Wageningen University, the Netherlands.

TEACHING AND SUPERVISION

Teaching one MSc-level course in tropical agricultural systems.
Teaching one MSc-level course in law and policy on plant genetic resources.
Supervising MSc-students.
Supervised two PhD-students at Noragric.

EDUCATION

1975: Dr.Scient, Inst. of Genetics and Plant Breeding, Agricultural University of Norway.
1970: Cand. Agric., Agricultural University of Norway.

List of publications:

- Berg, T. 1971: Recombination of mutated alleles in barley. Abstract of papers presented at the sixth meeting of Scandinavian Association of Geneticists, Aarhus, Denmark, *Hereditas* 69, p. 288.
- Berg, T. 1975: Artskryssing mellom raigras (*Lolium perenne*) og engsvingel (meadow fescue). (Interspecific crosses between ryegrass (*Lolium perenne*) and meadow fescue (*Festuca pratensis*). (Dissertation, pp. 72).
- Berg, T., S. Frogner and K. Åstveit 1975: Recombination of induced mutant alleles for grain yield in barley. *BARLEY GENETICS III, Proceedings of the Third International Barley Genetic Symposium*, Pp. 203-214.
- Berg, T. 1979: Studies on Hybrids between Perennial Ryegrass (*Lolium perenne* L) and Meadow Fescue (*Festuca pratensis* Huds.). *Meldinger fra Norges Landbrukshøgskole*, 58 (17) pp. 15.
- Berg, T. and K. Aase 1979: Forsøk med engrappsortar på Vestlandet (Trials with Varieties of Smooth Meadow Grass in Western Norway). *Forskning og forsøk i landbruket*, 30, 85-90.
- Berg, T. 1979: Frå villgras til kulturplante. *Vestlandsk landbruk* 1979 (6) 124-126.
- Berg, T. 1979: Luserne og kløver i fortid og framtid. *Vestlandsk landbruk*, 1979 (6) 1133-135.
- Berg, T. 1980: Strandrøyr. *Vestlandsk Landbruk* 1980 (4) 87-88.
- Berg, T. og K. Aase 1980: Raudsvingelsortar jamført med engsvingel og engrapp på Vestlandet. (Red fescue varieties compared with meadow fescue and smooth meadow grass in Western Norway). *Forskning og Forsøk i Landbruket*, 31, 105-109.

- Berg, T. 1980: Granskingar i lokalpopulasjoner av strandrøyr (*Phalaris arundinacea*) frå Vestlandet (Investigations in local populations of reed canarygrass (*Phalaris arundinacea*) from Western Norway)..
Forskning og forsøk i landbruket, 31, 433-447.
- Berg, T. 1980: Kulturplantenes variasjon, *Naturen* 1980 (4) 169-174.
- Berg, T. 1982: Seed dormancy in local populations of *Phalaris arundinacea* L. *Acta Agriculturæ Scandinavica*, 32, 405-409.
- Berg, T. 1982: Val av grasart under ulike driftsvilkår. *Vestlandsk Landbruk* 1982 (8) 180-181.
- Berg, T. 1982: Engrappsortar på Vestlandet. *Vestlandsk Landbruk* 1982 (8) 192-193.
- Berg, T. and S. Bie 1989: Biotechnology - A Discussion of Genetic Technology Applicable to Sustainable Development; Breeding Challenges and Gene Banks. Proceedings of the Symposium on the Sustainability of Agricultural Production Systems in Sub-Saharan Africa. NORAGRIC Occ. Pap. Ser. C. Pp. 145-152.
- Berg, T. 1990: Frigjøringsteknologi. *U-Nytt* 1990 (3) 13-15.
- Berg, T. 1990: Etter den grønne revolusjonen - nye utfordringer for planteforedlerne, *Norsk landbruksforskning*, Suppl. No. 9 1990: Norsk planteforedling i nåtid og framtid (Present Status and future prospects of Norwegian Plant breeding), pp. 11-116.
- Berg, T., Å. Bjørnstad, C. Fowler and T. Skrøppa 1991: Technology Options and the Gene Struggle. NORAGRIC Occasional Papers Series C, Development and Environment No. 8. Pp. 146.
- Berg, T., Å. Bjørnstad, and C. Fowler 1991: Property rights of genetic resources: An ecological perspective. Proceedings of NFU's Annual Conference 1991: Natural Resource Use and Changing Society, Interdisciplinary Approaches to Development, Agricultural

University of Norway, Aas May 1991. NORAGRIC Occ. Papers Ser. C, pp. 184-193.

Berg, T. 1993: The science of plant breeding - support or alternative to traditional practices? In: W. de Boef, K. Amanor and K. Wellard (eds.): Cultivating Knowledge. Genetic Diversity, farmer Experimentation and Crop Research. Pp.: 72-77. Intermediate Technology Publications, London.

Berg, T.: Frøet som ble bank. Om Tigray-bøndernes frøbanker. U-NYTT, Utviklingsfondet, mars 1992 s. 16-17.

Berg, T. : Indigenous knowledge and plant breeding in Tigray, Ethiopia. Forum for Development Studies, No 1, 1992, 13-22.

Berg, T.: Utviklingsressurs eller undertrykkelsesredskap? Politiske og samfunnsmessige perspektiver på genteknologien og u-landene. Norsk tidsskrift for misjon, 1 (1993) 2-10.

Berg, T. 1993: Breaking Monopolies. In: "Growing Diversity in Farmers' Fields". Proceedings of a seminar for Nordic Development Cooperation Agencies, Lidingö, Sweden, September 1993. Pp.: 87-91. Swedish Society for Nature conservation, Stockholm 1994.

Berg, T. 1993: From Green Revolution to Gene Wars: exit "Common heritage" - enter "Farmers' Rights". Future. A network publication from the Development Fund (Norway) and Asian Partner Organisations. Pp. 29 - 31.

T. Berg 1995: Kulturplanter og husdyr i Afrika. I Stenseth, N.Chr., K. Paulsen og R. Karlsen (red.): Afrika - natur, samfunn og bistand. 263 -278. ad Notam/Gyldendal, ISBN 82-417-0448-8.

Berg, T. 1996: Dynamic Management of Plant Genetic Resources: Potentials of Emerging Grass-Roots Movements. FAO, Plant Production and Protection Division: Studies in Plant Genetic Resources. Study No. 1. 18 pp.

Berg, T. 1996: The Compatibility of Grass-Roots Breeding and Modern Farming. In P. Eyzaguirre and M. Iwanaga (eds.): "Participatory Plant

- Breeding", Proceedings of a workshop, Wageningen July 1995. IPGRI, Rome, 1996. P. 31-43.
- Berg, T. 1996: Plant genetic resources: Global issue, national sovereignty and regional approach. I Aregay Waktola (ed.): Conservation centred sustainable agricultural development in SSE countries. Proceedings of the SSE-Seminar for Sudan-Ethiopia-Eritrea held in Mekele, Ethiopia, 13-19 November 1995. Pp. 21-25. Noragric, Addis Ababa.
- Berg, T. 1996: Devolution of plant breeding. In: L. Sperling og M. Loevinsohn (eds.): Using Diversity. Enhancing and Maintaining Diversity on-farm. Proceedings of a workshop held 19-21 June 1995, New Delhi, India, pp. 116-123. IDRC.
- Berg, T. 1996: Simple mass selection, how simple? African Diversity, No. 13 August 1996.
- Boef, W. de, T. Berg & B. Haverkort: Crop Genetic Resources. In J. Bunders, B. Haverkort & W. Hiemstra (eds.): BIOTECHNOLOGY, Building on Farmers' Knowledge. Macmillan Education Ltd. London, 1996, pp. 103 - 128.
- Tolera, A., T. Berg and F. Sundstøl, 1999: The effect of variety on maize grain and crop residue yield and nutritive value of the stover. Anim. Feed. Sci. Technol. 79, 165-177.
- Atlin, G., T. Berg and C. Almekinders, 2000: Towards integrated plant breeding. In: Almekinders, C. and W. de Boef (eds.): Encouraging Diversity. The conservation and development of plant genetic resources. Intermediate Technology Publications. Synthesis of Section IV, Plant Breeding and Genetic Diversity. Pp. 213-217.
- Hussein, M., Å. Bjørnstad, A. H. Aastveit, T. Berg and G. Haile, 2000: The effect of plant population and water conservation methods on grain yield of early-maturing maize varieties in the moisture stress areas of southern Ethiopia. African Journal of Crop science, 159-170.
- Berg, T., F. Dava, J. Mxhlanga, 2001: Post-Disaster Rehabilitation and Seed Restoration in Flood Affected Areas of Xai-Xai District, Mozambique. SD-Dimension FAO, Rome.

- Berg, T. 2001: Mangfold og Makt: Tilbake til bøndene. Tredje Verden Magasinet X, 10 (1), p. 24-25.
- Tin, H. Q., T. Berg and Å.Bjørnstad, 2001: Diversity and adaptation in rice varieties under static (*ex situ*) and dynamic (*in situ*) management. A case study in the Mekong Delta, Vietnam. Euphytica 122: 491-502.
- Woldemeskel, E., Berg, T. Peters, N.K. Frostegård, Å., 2004: Nodulation status of native woody legumes. Biology and Fertility of Soil 40, 55-66.
- Yemane Tsehaye, T. Berg, Bayush Tsegaye and Tessema Tanto, 2005: Farmers' management of finger millet diversity in Tigray, Ethiopia and implications for on-farm conservation. Biodiversity and conservation
- Aderajew Haddis and T. Berg 2006: Selectors and non-selectors: agricultural and socioeconomic implications of on-farm seed selection in Ethiopia. Plant genetic Resources Newsletter, Forthcoming in Plant genetic resources Newsletter.
- Tolera, A., B. Tsegaye, and T. Berg 2007: Effects of variety, cropping year, location and fertilizer application on nutritive value of durum wheat straw. Journal of Animal Physiology and animal nutrition 92 (2008) 121-130.
- Tsegaye, B. and T. Berg 2007: Utilization of durum wheat landraces in East Shewa, Central Ethiopia: Are home uses incentive for on-farm conservation? Agriculture and Human Values, 24, 219-230.
- Tsegaye, B. and T. Berg 2007: Genetic erosion of Ethiopian tetraploid wheat landraces in Eastern Shewa, Central Ethiopia. Genet. Resour Crop Evol 54, 715-726.
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Reports:

NLVF 1977: Foredling av vekstar til eng, beite og grøntanlegg. NLVF-utredning nr. 87. (Komite-utredning, formann: M. Pestalozzi, sekretær: T. Berg.)

Berg, T. 1983: Annual report, Agriculture Project, Research Section of Norwegian Church Aid/Sudan Programme.

Bjørtuft, S., C. Oketayot and T. Berg, 1984: Annual report, Agriculture Project, Research Section of Norwegian Church Aid/Sudan Programme.

Berg, T. 1985: Agricultural introduction programme for the Borana area. Report from a planning visit 4 - 19 March 1985, to Norwegian Church Aid/EECMY/SS Development Programme.

Naseem Machooka, Synnøve Vinsrygg and Trygve Berg 1986: Project Review for Limuru Girls' Centre. A report to NORAD, Nairobi.

Anders Wirak, Trygve Berg, Jens Laugen, Leif Mattsson, Nadarajah Shanmugaratnam and Ola Syrstad 1986: Report from baseline study of Redd Barna Ethiopia's conservation and rural development project in Gosh Bado/Areghesh area Shewa Region - Ethiopia.

Anders Wirak, Trygve Berg, Jens Laugen, Leif Mattsson, Nadarajah Shanmugaratnam and Ola Syrstad 1986: Report from baseline study for Phase III of Redd Barna Ethiopia's Integrated Rural Development Programme in Bolosso - Welayta - Ethiopia.

N. Shanmugaratnam, John Bryde and Trygve Berg 1987: Programme in farming and ecological systems studies in Ethiopia. Pre-programme study.

Berg, T. 1987: Review of the agricultural research activities of the Community Development Programme of Norwegian Church Aid/Ethiopian Evangelical Church South Synod.

Berg, T. 1987: Agricultural development planning. Report from a pre-project visit to Norwegian Church Aid-Ethiopia, Dello Project.

Berg, T. 1987: Project review for United Methodist Church Rural Agricultural Development Project, Gbason Town, Liberia.

Achukwu, W.O., Trygve Berg and Olav Helge Angell Nordeng 1988: The Abakaliki Development Project, Nigeria. An Ex-post Evaluation for Norwegian Church Aid.

Trygve Berg & Arne Olav Øyhus 1989: Projet Intégré de Développement de Bafoulabé (PIDEB) Mali. Rapport fra Konsulentoppdrag for Pastor Strømmes Minnestiftelse.

Berg, T. 1990: Agricultural Development in Santal Parganas, India. A report to the Norwegian Santal Mission, Oslo.

Berg, T. 1992: Community Seed Banks in Tigray. A project review for The Development Fund.

Hans B. Bentsen, Trygve Berg and Peter Johan Schei 1992: A note on Environmental Effects of Release and Dissemination of Improved Nile tilapia. To UNDP, Division of Global and Interregional Programmes.

Bergstrøm, C., T. Berg and A. Waktola 1993: Integrated Rural Development Project in Wolayta, Ethiopia. A Noragric SSE-project Review.

Berg, T. and M.L. Alcid 1994: Review of CONSERVE (Community Based Native Seed Research Center), Mindanao, the Philippines.

Grimstad, S., T. Berg and A. Waktola 1994: Conservation and Rural Development Project in Tegulet and Bulga Wereda, Northern Shoa, Ethiopia. A Noragric SSE-project Review.

Berg, T. 1996: Community Seed Bank Project in Tigray, Ethiopia. Report from a review mission October-November 1995. Noragric.

Haug, R., T. Berg, J. B. Aune og P. Vedeld, 1996: Mat og Miljø for en bærekraftig utvikling. Utredning for Miljøverndepartementet om matvaresikkerhet.

Aune, J.B. and T. Berg, Dec.1997: Project Review of Rama Integrated Rural Development Programme, Tigray Ethiopia.

Berg, T. and J. B. Aune: Dec. 1997: Project Review of Central Tigray Integrated Rural Development Programme, Tigray, Ethiopia.

Berg, T. and C. Fowler, Jan. 1998: Plant genetic Resources for Food and Agriculture. Issues for consideration in Norwegian development cooperation with countries in Southern and Eastern Africa. A NORAD/Noragric frame agreement study.

Berg, T., S. Freudenthal and R. M. N. Sikananu: The 1995 - 1998 Seed Emergency/Drought Rehabilitation Programme in Zambia. An evaluation report, Noragric June 1998.

Berg, T. and M. Dibissa, 2001: Strengthening of seed supply systems at the local level. Appraisal of a proposed FAO/Norway cooperative project in Ethiopia.

Short term assignments:

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| March 1985: | Project planning in Ethiopia. Norw. Church Aid. |
| Dec. 85 - Jan 86: | Project review, Limuru Girl's Centre (Farming school), Kenya. |
| July 1986: | Project evaluation and planning in Ethiopia, Redd Barna (Norw. Save the Children). |
| Feb. 1987: | Research project planning in Ethiopia (NORAGRIC). |
| June 1987: | Project review in Ethiopia, Norw. Church Aid. |
| Sep - Oct 1987: | Project review in Liberia, United Methodist Church. |
| Sep - Oct 1988: | Ex post evaluation in Nigeria (Norw. Church aid). |
| April 1989: | Project review in Mali (PSM). |
| May and Oct 1990: | Project review in India, Norwegian Santal Mission. |

- Nov 1991: Project review, Community Seed Banks in Ethiopia (DF, Tigray)
- April 1992: Project on biotech. and 3rd World (India & Ethiopia)
- November 1993: Review of rural development project in Wolayta, Ethiopia (Redd Barna).
- August 1994: Review of Community Based Native Seed Research Center (Conserve), Mindanao, Philippines.
- November 1994: Review of the "Conservation and Development Project in Tegulet and Bulga Wereda" (Northern Shewa, Ethiopia).
- February 1995: Workshop on Ethiopian-Indian-Norwegian collaboration on biotechnology education. Madurai Kamaraj University, India.
- September 1996: Teaching about community management of plant genetic resources, Southeast Asian Regional Training Workshop, Can Tho University, Vietnam.
- September 1997: Teaching about community management of plant genetic resources, Southeast Asian Regional Training Workshop, Manila.
- October 1997: Project review Rama Integrated Rural Development Programme, Implemented by EECMY/NCA, Tigray, Ethiopia.
Project review of The Integrated Agricultural Development Programme, Implemented by REST, Central Tigray, Ethiopia.
- May - June 1998: Evaluation of Seed Emergency/Drought Rehabilitation programme, Zambia.
- September - October 1998: Visits to Vietnam, Lao and Bhutan to establish "Biodiversity Use and Conservation Asia Programme".
- July and September 1999: Visits to Zimbabwe in connection with the starting of an FAO project in Gender, Biodiversity and Local Knowledge Systems to Strengthen Agricultural and Rural Development.

October - November 1999: Meetings in Hanoi and Vientiane on the formulation of the BUCAP (Biodiversity Utilisation and Conservation Asia Programme).

April 2001 Appraisal of FAO project on seed security in Ethiopia. Addis Ababa and East Harerge.