

# CURRICULUM VITAE

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## **Qualifications:**

- Cambridge School Certificate (Grade 1)1952.
- B.Sc. Agric. (London) 1958.
- Ph.D. Agronomy (Nebraska, USA) 1962.

## **Employment Record:**

- Member of Teaching Staff, Faculty of Agriculture, University of Khartoum, 1958-80.
- FAO Agronomist (Sorghum, Maize and Millet), Yemen, 1980-1986.
- FAO Sorghum Improvement Adviser, Pakistan, 1986-1988.
- Project Manger, UNDP/FAO Research Project in Somalia, 1988-1991.
- Consultant Agronomist, 1991-2000 .
- Professor of Plant Breeding Faculty of Agriculture, University of Khartoum, 2000-2010.
- Consultant Agronomist, 2010 – Present.

## **Experience in Teaching and Research:**

- Teaching: about 30 years teaching experience at University level.
- Research: about 40 years research experience in crop improvement leading to release of some improved cultivars.

## **Experience in Administration:**

- Dean, Faculty of Agriculture, University of Khartoum. 1971 - 1974
- Project Manager, UNDP/FAO Research Project in Somalia. 1988 - 1991
- Chairman, Board of Directors, Agricultural Bank of Sudan. 1996 - 1998
- Member, Board of Directors, the Agricultural Research Corporation. 1996-1999
- Member, Variety Release Committee, Ministry of Agriculture, Sudan 1998-present
- Member , Sorghum and Millet Genetic Resources Committee of the International Board for Plant Genetic Resources (IBPGR), FAO, Rome for 2 years

- Chairman of the Agricultural Studies Committee, National Council for Higher Education 2006-2009
- Chairman, Cereal Crops Council, Agricultural Revival Programmme
- Member, National Seed Council, Ministry of Agriculture, Sudan, 2013-Preset
- **Participation as Consultant Agronomist in Several Studies including:**
  - i) **FAO:** Agricultural Sector Review , Yemen , 1992.
  - ii) **FAO:** National Programme for the Development of Agriculture, Livestock and Irrigation Sectors in the Sudan, 1997.
  - iii) **UNDP:** Mid-Term Evaluation of UNDP/FAO Project "On-Farm Research in Traditional Rainfed Areas in the Sudan" , 1994.
  - iv) **UNDP:** Thematic Review of UNDP Regional Agricultural Projects in the Arab States.
  - v) **IFAD:** Evaluation of IFAD-finsnced Research and Extension Projects in Yemen, 1992.
  - vi) **AOAD:** "Study of the Technical, Economic and Social Aspects of the Gash Scheme" , 1974.
  - vii) **AOAD:** "Study of Appropriate Technologies for Improvement of the Productivity of Rainfed Agriculture in the Arab Region and the Proposed Projects for Development " , 1997.
  - viii) **AAAIID:** Feasibility Study for Establishing a Company for Production, Processing and Distribution of Improved Seeds, 1995.
  - ix) **SUDEXAM:** Study of the Economic Feasibility of Wheat Production in the Nile and Northern States.
  - x) **SUDEXAM:** Rainfed Agriculture in the Atbara River Unit of PLAN SUDAN
  - xi) **IBPGR:** Sorghum and Millet germplasm collectin missions fielded by IBPGR in Sudan 1978.

xii) **IDRC:** IDRC project for control of *Striga* in the Sudan, 1978.

**Puplicatins:**

**A. Research Paper**

- (1) Kambal, A.E. and Webster O.J. (1965). Estimates of general and specific combining ability in grain sorghum. *Sorghum vulgare* Pers. *Crop Science* 5, 521-523.
- (2) Kambal, A.E. and Webster O.J. (1966). Manifestations of hybrid vigour in grain sorghum and the relations among the components of yield, weight per bushel and height *Crop Science* 6, 513-515.
- (3) Kambal, A.E. (1968). A study of the agronomic characters of some varieties of *Vicia faba* L. *Sudan Agricultural Journal* 3, 1-11.
- (4) Kambal, A.E. (1968). Some expressions of hybrid vigour in Castor, *Ricinus communis* L. *Sudan Agricultural Journal* 3, 35-40.
- (5) Kambal, A.E. (1968). Performance of some wheat varieties at Shambat. *Agricultural Magazine* 8, 16-19.
- (6) Kambal, A.E. (1969). Blossom drop and fruit set in field beans, *Vicia faba* L. *Journal of Agricultural Science*, Cambridge 72, 131-138.
- (7) Kambal, A.E. (1969). Components of yield in field beans, *Vicia faba* L. *Journal of Agricultural Science*, Cambridge 72, 359-363.
- (8) Kambal, A.E. (1972). Performance of some local and introduced varieties of forage sorghum at Shambat. *Sudan Agricultural Journal* 7, 12-16.
- (9) Kambal, A.E. (1974). Sorghum breeding at the Faculty of Agriculture, Shambat: 1.  
Breeding of sorghum varieties for resistance to *Striga*.  
*Proceedings of 11<sup>th</sup> Agricultural Research Colloquium on Cereal Crops in the sudan*. Wad Medani, Sudan.
- (10) Kambal, A.E. (1974). Sorghum breeding at the Faculty of Agriculture, Shambat: 2. Utilization of hybrid vigour. *Proceedings of 11<sup>th</sup> Agricultural Research Colloquium on Cereal Crops in the sudan*. Wad Medani, Sudan.
- (11) Kambal, A.E. (1974). Comparative performance of some varieties of

sorghum, maize and pearl millet for forage production in different seasons. *Sudan Agricultural Journal* 10, 46-62.

(12) Kambal, A.E. (1974). Occurrence and inheritance of a yellow wing spot in *Vicia faba* L. *Sudan Agricultural Journal* 10, 61-63.

(13) Kambal, A.E. (1974). Occurrence and inheritance of resistance to the powdery mildew disease in *Vicia faba* L. *Sudan Agricultural Journal* 10, -----

(14) Kambal, A.E. and Abu-El Gasim, E.H. (1975). A case for an accelerated hybrid sorghum project in the Sudan. *Sudan Notes and Records* 57, 107-114.

(15) Kambal, A.E. and Abu-El Gasim, E.H. (1976). Manifestations of heterosis in grain Sorghum . *Experimental Agriculture* 12,33-42 .

(16) Abu-El Gasim, E.H. and Kambal, A.E. (1976). Variability and interrelations among characters in indigenous grain sorghums of the Sudan. *East African Agriculture & Forestry Journal* -----

(17) Kambal, A.E., Bond. D.A. and Toynbee Clarke, Jillian (1976). A study on the pollination mechanism in field beans (*Vicia faba* L.) *Journal of Agricultural Science*, Cambridge 87, 519-526.

(18) Kambal, A.E. and Mahmoud, M.A. (1976). Variety X environment interactions in grain sorghum variety trials in the Sudan. *Experimental Agriculture* 14,41-48 .

(19) Kambal, A.E., and Bate-Smith, E.C. (1976). A genetic and biochemical analysis of pericarp pigments in a cross between two varieties of grain sorghum. *Heredity*, 37, 413-416.

(20) Kambal, A.E. (1980). Proposal for the Release of the Maize Variety Khumaltar . Proposal submitted to the first meeting of the Variety Release Committee held in Sanaa in May 1980.

(21) Kambal, A.E., and Saeed, M.A. and Shrestha, P.C. (1981). *Studies on the Agronomy of Sorghum, Maize and Millet during 1980.* Technical Report, Taiz 1981.

(22) Kambal, A.E., and Saeed, M.A. and Shrestha, P.C. (1982). *Studies on the Agronomy of Sorghum, Maize and Millet during 1981.* Technical Report, Taiz 1981.

(23) Kambal, A.E. (1982). *Proposal for the Release of the Sorghum Varieties Dabar and Kadasi.* Presented to the second meeting of the variety Release Committee held in Sanaa in February 1982.

(24) Kambal, A.E., Saeed, M.A., Abdul Gabbar, H. and Abdalla H.A. (1983). *Studies on the Agronomy of Sorghum, Maize and Millet during 1982*. Technical Report, Taiz, 1983.

(25) Kambal, A.E., Saeed, M.A., Abdul Gabbar, H. and Abdalla H.A. and Shrestha P.C. (1983). *Studies on the Agronomy of Sorghum, Maize, Millet during the period 1980-1983*. Final Technical Report, Taiz, 1983.

(26) Kambal, A.E. (1988). *Improvement of Sorghum, Maize, Millet and some Grain Legumes in Yemen Arab Republic (1980-86)*. Terminal Report.

(27) Kambal, A.E. (1988). *Sorghum Improvement in Pakistan*. End of Assignment Report of FAO Sorghum Advisor to Project UTF/PAK/072/Pakistan.

(28) Kambal, A.E. (1991). *Terminal Report the UNDP/FAO/Agricultural Research Project on Somalia*, Rome 1991.

(29) Kambal, A.E. (2003). Naming of Abu Sabein Sorghums. *University of Khartoum Journal of Agricultural Sciences* 11, 449-452.

(30) Ahmed, M.I. and Kambal, A.E. (2005). Heterosis and inbreeding depression in faba bean (*Vicia faba* L.). *University of Khartoum Journal of Agricultural Sciences* 13, 224-232.

(31) El Sanousi, R.S., Kambal, A.E., Ali, A.M., Kamal, N.M. and Mohamed, S.S. (2009). Molecular characterization of some sorghum (*Sorghum bicolor* ( L.) Moench) access from Sudan in relation to racial classification. *University of Khartoum Journal of Agricultural Sciences* 17, 308-318.

## B. Review Articles

(33) Kambal, A.E. (1965). *A Background Note on Agricultural Education in the Sudan* Proceedings 13<sup>th</sup> conference of the Philosophical Society of Sudan on Agricultural Development in the Sudan. (J.P. Shaw. ed), ppD 37-39.

(34) Kambal, A.E. (1967). *Improvement of Sorghum Production in the Sudan*. Proceedings of 2th Erkowit Conference on Sudan Path to Self-sufficiency. Pp 96- 102.

(35) Khidir, M.O. and Kambal, A.E. (1972). Crop Improvement in the Sudan. Presented to the UNESCO Post Graduate Course in Tropical

Agronomy, Faculty of Agriculture, University of Khartoum, 3-18<sup>th</sup> January, 1972.

(36) Kambal, A.E. (1973). Breeding Sorghum Varieties for Higher Productivity. Presented to the First FAO/SIDA Seminar on Improvement and Production of Field Crops for Plant Scientists from Africa and the Near East, Cairo September, 1973.

(37) Kambal, A.E. (1993). *Improvement of Farming Systems for Production of Cereal Crops in the Sudan*. Paper presented to the Pan-Arab Conference on Development of Cereal Crops in the Arab Countries, Cairo 19-23 December 1993.

(38) Kambal, A.E. (1996). *Development of Farming Systems for Crop Production under Rainfed Conditions*. Paper presented to the Pan-Arab Conference on Development of Dry Farming in the Arab States, Algeirs, October 1996.

(39) Kambal, A.E. *Maize Breeding and Production in the Sudan*. Paper presented in the FAO Workshop on Seed Need for small Farmers, Khartoum, Sudan.

(40) Kambal, A.E. (2002). *Breeding Strategies and Procedures for Forage Crops*. Lecture presented in the Training Course on Forages and Pastures Seed Production organized by the Seed Administration., Ministry of Agriculture, in collaboration with ICARDA. Khartoum, 6-13 Jan., 2002.

(41) Kambal, A.E. and Abdalla, A.A. (2008). *Role of Arab Faculties of Agriculture, in Food Security in the Arab World*. Presented in the conference on food security in the Arab World Khartoum.

(42) Kambal, A.E. (2009). *Role of Faculties of Agriculture in Agricultural Revival Programme*. A paper presented to the workshop organized by the Sudanese Agricultural Council. Khartoum, April 2009.

(43) Kambal, A.E. (2009). *Production of Cereal Crops in the Sudan*., Paper presented to the Workshop on Cereals Production and Processing organized by the Sudanese Standards and Measures Organization. Khartoum, 2009.

(44) Kambal, A.E. (2010). *Studies on Production of Bio-ethanol from Sweet Sorghum at the Faculty of Agriculture, University of Khartoum*. A

paper presented to the conference on graduate Studies and Research, University of Khartoum, 27 Feb- 3Mar., 2010.

- (45) Kambal, A.E. (2014) *Seed Policy for the Sudan and Experience of other Courtiers* (in Arabic).A paper presented to the National Seed Policy Workshop. Khartoum Sudan January 20-21, 2014.
- (46) Kambal, A.E. (2014). Biotechnology:An Oveview.A paper Presented to the Biotechnology Awareness Creation Workshop. Khartoum, Sudan, September 23, 2014.