

# **UNIVERSITY OF EMBU**

## **STAFF PROFILE**

Name: Njoka, Fredrick M.

Title/Qualification: Prof.

Position: Dean: School of Agriculture

**Department:** Agricultural Resource Management

**School:** Agriculture

**Area of Specialization:** Plant Breeding and Genetics

Contact Address: Box 147, Chuka

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**Short Biography:** 

Research Interests: Heterosis breeding in maize and wheat

On going Research Projects:

Genetic and epigenetic diversity of Gooseberry (*Physallis peruviana*) in selected Counties of Kenya.

Marker assisted breeding to improve drought tolerance in selected chickpea ( $Cicer\ arietinum\ L$ .) germplasm in Arid and Semi-arid areas of Kenya.



#### **Publications in Journals:**

1. Name of Journal: Journal of Advances in Biology & Biotechnology

Year of Publication: 2018

Authors: Jackline, Tubei E.; Njoka, Fredrick M.; Ombori, Omwoyo; Njau, Peter N.

Title: Introgression of Stem Rust Resistance into Popular Kenyan Wheat Varieties to

Improve Production, Vol. 17(1): 1-11

2. Name of Journal: IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS)

Year of Publication: 2017

Authors: Tubei, Jackline E.; Ombori, Omwoyo; Njau, Peter N.; Njoka, Fredrick M.

Title: Determination of Stem Rust Ug99 Disease Severity in Selected Wheat Backcrosses in

Kenya, Volume 10, Issue 5 Ver. I pages, 66-71

3. Name of Journal: Journal of Global Agriculture and Ecology

Year of Publication: 2017

Authors: Diana W. Manene and Njoka, Fredrick M.

Title: Determination of Post Striga Attachment Resistance in Selected Resistant Sorghum

Lines in Kenya, Volume 7, Issue 1: 36-42, 2017.

4. Name of Journal: International Journal of Science and Research (IJSR)

Year of publication: 2017

Authors: **Njoka, Fredrick M.**, Owaka Margaret, Chrispine Omondi and Elijah Kathurima Title: Pathogenicity of *Colletotrichum kahawae* in Kenya, Volume 6, Issue 5, 491-494,

2017.

5. Name of Journal: Journal of Applied Life Sciences International

Year of publication: 2017

Authors: Njagi Anthony Kiranga, **Njoka, Fredrick M.** and Charles W. Nderito

Title: Physiological and Agronomic Performance of Domesticated and Wild Cotton

Germplasm from Selected Regions of Kenya, Volume 11, Issue 3: 1-7, 2017.

6. Name: International Journal of Plant and Soil Sciences

Year of publication: 2016

Authors: Kariuki J.M., **Njoka, Fredrick M.**, Leley P.K. and Manene D.W.

Title: Combining ability of inbred lines of maize (Zea mays L.) in Kiambu and Embu

Counties, Kenya, Volume 12, Issue 4: 1-8, 2016.

7. Name: Journal of Forests, Trees and Livelihoods

Year of publication: 2015

Authors: Robert Kariba Kithure, Alice Muchugi, Ramni Jamnadass, Njoka, Fredrick M.,

Lucy Mwaura.

Title: Genetic diversity of Faidherbia albida(Del.) A. Chev accessions held at the World

Agroforestry Centre. Vol (1): 1-12.

8. Name: International Journal of Life Sciences Research.

Year of publication: 2014

Authors: Sande F. O., **Njoka, Fredrick M.**, Mgutu J. A., Anami E. A.

Title: Screening for water deficit tolerance, relative growth analysis and *Agrobacterium*-infectivity in Tropical maize (*Zea mays* L.) inbred lines in Nairobi, Kenya. Vol. 2 (4): 218-224.

9. Name: Agriculture Science Developments

Year of publication: 2013

Authors: Grace K., Njoka, Fredrick M.

Identifying morpho-physiological characteristics associated with drought tolerance in selected Chickpea germplasms in Nakuru and Baringo Counties, Kenya, 2(11):106-115.

10. Name: Journal of Plant Breeding and Genetics

Year of publication: 2013

Authors: Melil K. Charles, **Njoka, Fredrick M.**, Ombakho A. George, Omari M. Odongo Title: Genetic variability analysis for growth and yield parameters in double cross maize (*Zea mays* L.) genotypes in Kitale County, Kenya, Issue 01(2013): 7-11.

11. Name: African Journal of Plant Science

Year of publication: 2010

Authors: **Njoka, Fredrick M.**, Okwany Z.A., Githui E.K.

Title: Molecular genotyping of selected soybean (Glycine max L.) genotypes grown in

different regions of East Africa. Vol. 4:128-134.

12. Name: Journal of Applied Biosciences

Year of publication: 2010

Authors: Anunda H., Njoka, Fredrick M., Shauri H

Title: Assessment of Kenyan public perception on genetic engineering of crops and their

products. 33: 2027 -2036.

13. Name of Journal: Aspects of Applied Biology

Year of Publication: 2010

Authors: Okwany, Zedekiah A.; Njoka, Fredrick M.; Githui, Elijah

Title: Genotype variant of soybean cultivars around Lake Victoria region, East Africa.

Aspects of Applied Biology 96, 2010

14. Name of Journal: Journal of Applied Biosciences

Year of Publication: 2009

Authors: Anunda, H.; Njoka, Fredrick M.; Shauri, H.

Title: Public perceptions towards genetically modified crops and foods in Kenya

15. Name: Journal of the Russian Academy of Agricultural Sciences

Year of publication: 2005

Authors: Semionov O.G., Tretiakov N.N., Yakovlev A.F., Njoka, Fredrick M.

Title: The effect of nucleo-cytoplasmic interaction on adaptive reaction to stress factors in hybrids of spring wheat (*T. aestivum*). Vol.1(4): 352-364.

16. Name: Journal Agronomy Faculty, PFUR

Year of publication: January, 2002.

Authors: Njoka, Fredrick M., Semionov O.G

Title: Comparative studies of allo-cytoplasmic wheat hybrids on their productivity and its elements, Moscow, pages. 51-53.

17. Name: Refereed Bulletin of the Agrarian Faculty of the Peoples' Friendship University

Year of publication: January, 2000

Authors: Njoka, Fredrick M., Semionov, O.G., Durga, N. M.

Title: The problem of fixing heterosis within generations. Moscow, 4: 70-71.

18. Name: Journal of the Agrarian Faculty of the Peoples' Friendship University

Year of publication: January, 1999

Authors: Njoka, Fredrick M., Durga, N. M.

Title: The peculiarities of heterosis appearance in the third filial generation (F<sub>3</sub>) in allocytoplasmic wheat hybrids. Moscow, 1: 25-26.

19. Name: Journal of Russian Academy of Sciences, Moscow.

Year of publication: 2005

Authors: Semionov O.G., Tretiakov N.N., Yakovlev A.F., Njoka, Fredrick M.

Title: The effects of nucleo-cytoplasmic interaction depending on the type of combination in spring wheat hybrids. 152: 1-9.

20. Name: Journal of the Russian Academy of Agricultural Sciences

Year of publication: 2001

Authors: Semionov O.G., Tretiakov N.N., Yakovlev A.F., Njoka, Fredrick M.

Title: The effect of light duration on biometrical parameters and production in spring

wheat. Ariol City, Russia. Vol. 2 (1): 35-39.

21. Name: International Conference of Arid Farming, Salionoe Zaimishe (Astrakhan region).

Year of publication: 2001

Authors: **Njoka, Fredrick M.**, Semionov O. G.

Title: Nucleo-cytoplasmic heterotic effect in allocytoplasmic hybrids of spring wheat T. *aestivum L.* P. 349 -357.

22. Name: Journal of Moscow State Academy of Agriculture

Year of publication: 1999

Authors: Njoka, Fredrick M.

Title: Heterosis effect of allocytoplasmic wheats hybrids of different types of cytoplasm in the first filial generation  $(F_1)$ . 4: 21-25.

### Presentation of Papers at Academic and Professional Conferences

- 11<sup>th</sup> –July 2016. Decolonising the Spirit Conference, Embu University College. (Presented a paper titled: "Factors affecting acceptability and production of soybean in Lake Victoria Region" and submitted for publication in November 2016). Chaired two plenary sessions.
- 11<sup>th</sup> 12<sup>th</sup> May 2016. 28th International Conference on Science, Technology, Engineering and Management (ICSTEM). Melbourne-Australia (presented a paper titled: Genotype x environment interaction of inbred lines of maize (*Zea mays* L.) and stability of crosses in Kiambu and Embu Counties, Kenya" and submitted for publication in June 2016).
- 16<sup>th</sup> 17<sup>th</sup> September 2015. Conference on effective teaching of Agricultural Sciences in Higher Institutions of Learning. The Kenya Forestry Research Institute, Kitui Regional Research Center. (Presented a paper titled "Quality Assurance in Agricultural Education in Embu University College"). Chaired two plenary sessions.
- 14<sup>th</sup> –16<sup>th</sup> April, 2003. An International Symposium on: Building Agricultural Resources capacity in Africa: Quality and relevance of tertiary education, Kenyatta University, Nairobi, Kenya.
- 2<sup>nd</sup> 5<sup>th</sup> August 2006 1<sup>st</sup> National Biological Postgraduate Scientific Conference, Biological Research for achieving the Millennium Development goals, Kenyatta University.

#### **Books/Book Chapters Published**

Introduction to Plant breeding – Book under publication