

CURRICULUM VITAE: Juliana Jepkemoi Cheboi (PhD)

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CURRICULUM VITAE



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SUMMARY

I am a lecturer of Plant breeding at the Department of Plant Science and Crop Protection, University of Nairobi. I teach and conduct research and outreach programs in Plant breeding and Agriculture related Courses. I hold several other positions such as the chairman, College of Agriculture and Veterinary Sciences exhibition committee, Departmental deputy examination coordinator and mentorship programme. I am a member of legume breeding community of practice with interest in breeding for biotic and abiotic stresses to enhance food and nutritional security. I am very keen on working with drought resilient crops with great potential to alleviate malnutrition and food security among the rural and urban poor in Kenya and in the Sub-Saharan Africa where drought and climate change effects are huge.

I am a highly motivated, self-driven, results-focused person who is passionate about economic, social and spiritual transformation of individuals, Country and the African Continent.

1. PERSONAL DETAILS

Name : Juliana Jepkemoi Cheboi (PhD)
Date of birth : January, 01, 1981
Nationality : Kenyan
Marital status : Married
Profession : Plant breeder

2. EDUCATION/ QUALIFICATIONS

Date attended	Institution	Qualification and
2015-2018	University of Eldoret.	PhD in Plant breeding
2013-2015	University of Eldoret.	Master of Science Biotechnology
2009-2013	University of Eldoret.	Bachelor of Science
2001- 2003	Eldoret Polytechnic	Diploma in Applied
1996-1999	Moi Kapsowar Girls Secondary School	Kenya Certificate of
1987-1995	Toroko Primary School	Kenya Certificate of

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3. TEACHING AND WORK EXPERIENCE:

Date	Appointment	Responsibilities
February 2020 – Present	Lecturer University of Nairobi	Teaching, Research, Supervising students, mentorship and outreach services in: <i>Biotechnology, Cytology and Mutation breeding, Plant breeding methods, seed science, forage Science and fodder production.</i>
December 2016 – January 2020	Tutorial Fellow University of Nairobi	Teaching, Research, Supervising students, mentorship and outreach services in: <i>Biotechnology, Cytology and Mutation breeding, Plant breeding methods, seed science, forage Science and fodder production.</i>
January - December 2016	Project coordinator Egerton University	Coordinating and writing reports on all aspects pertaining dry land crop project on behalf of the P.I. Organizing trainings to farmers and extension officers on agronomic management practices, handling post-harvest losses, variety selection, nutritional aspects, linking farmers to industries and market, and organizing field days in Elgeiyo/Marakwet County (TOTs).
January-December 2015	Research intern, genomic lab- ICRISAT, Kenya	Leaf sampling, handling and preparation for extraction, DNA extraction using CTAB method, Assessment of DNA quality and quantity, PCR amplification and analysis, SSR marker analysis using gel electrophoresis and applied Biosystems, Data analysis using; GeneMapper, DarWin, STRUCTURE and GeneAlex, Preparing reagents and autoclaving of glass wares.
2013-2015	Part time lecturer, University of Eldoret	Teaching basic botany, genetics and Microbiology

4. (i) SUPERVISION OF POST-GRADUATE STUDENTS:

MSc THESES-on going

1. Ricky Otieno Ouma. Assessing Genetic diversity of *Eucalyptus grandis* and *Eucalyptus urophylla* using microsatellites under natural and controlled pollination methods. Co- Supervisors: Dr. Lydia Wamalwa and Dr. S.O Omondi
2. 2. Abel Odhiambo. Molecular characterization of local cassava landraces and improved varieties for resistance to cassava brown streak viruses. Co- Supervisors: Dr. Felister Nzuve and Dr. Nyaboga
3. 3. Naomi Mukami. Evaluation of local cassava landraces for resistance to cassava mosaic disease using molecular markers in Kenya. CoSupervisors: Dr. Felister Nzuve and Dr. Nyaboga

4 (ii) UNDERGRADUATE STUDENT SUPERVISION

1. Basil, Mzee Safari. **2019**. Determining the efficacy of Actara® insecticide against the control of Onion thrips(*Thrips tabaci*)in bulb onions (*Allium cepa* L.)
2. Mutai Nixon. **2019**. Determining the effects of inorganic and organic manure on cowpea leaf production.
3. Nyabunga Patrick. **2019**. Testing efficacy of biological nitrogen uptake in common bean (*Phaseolus vulgaris*) variety using DAP fertilizer
4. Mungabe Gladys Wesonga. **2018**. Effects of pretreatment methods on wheat germination
5. Kinoti Pauline Mwendwa. **2018**. Evaluation of organic and inorganic fertilizers for maturity time and yield components in tomato
6. Atieno Janet Abich. **2018**. Effects of organic and inorganic fertilizer on lablab purpureus yield components for forage utilization.
7. Kiruki Gacheri Grace. **2017**. Evaluation of carrot (*Daucus carota* L.)yield performance on wood ash and NPK application
8. Chepkoech Nelly. **2017**. Influence of cow dung, chicken manure and CAN fertilizer on yield, yield components and root nodulation of cow pea

5. ACADEMIC/ SCIENTIFIC PUBLICATIONS

a) REFEREED JOURNAL ARTICLES:

1. **Juliana J. Cheboi.**, Miriam G. Kinyua., Paul K. Kimurto., Oliver K. Kiplagat and N.V.P.R Gangarao. **2019**. Assessment of phenotypic and genetic variation against pod borer among a subset of elite pigeonpea

- (*Cajanus cajan*) genotypes in Kenya. Australian Journal of Crop Science. 13(02): 221-227
2. **Cheboi, J.J.**, Kinyua, M.G and Kimurto, P.K. **2019**. Variability in morpho-biochemical traits associated with pod borer (*Helicoverpa armigera*) resistance in pigeonpea pods. American Journal of Experimental Agriculture. 31 (13): 1–7
 3. **Cheboi, J.J** and Mungabe G. **2019**. Effects of different pretreatment methods on germination of Wheat (*Triticum aestivum*, Poaceae). Asian Journal of Research in Crop Science. 3(4): 1-5.
 4. **Juliana J. Cheboi.**, Oliver K. Kiplagat and Everlyne N. Sikuku. **2018** . Variability in proximate analysis of twelve selected elite pigeonpea genotypes across varied agro-ecological zones in Kenya. Journal of food Science and Quality management. 76:85-91.
 5. **Juliana J. Cheboi.**, Miriam G. Kinyua., Paul K. Kimurto., Oliver K. Kiplagat., Bernard K. Towett., Stella C. Kirui., Gaudencia J. Kiptoo and N.V.P.R Gangarao . **2016**. Yield potential and adaptability of medium duration pigeonpea [*Cajanus cajan* (L.) Millsp.] genotypes in dry Areas of North Rift valley, Kenya. International Journal of Agronomy and Agricultural Research. 9(2): 47-56.
 6. Kiptoo, G.J., Kinyua, M.G., Kiplagat, O., Wanjala, F.M.E., Kiptoo, J.J., **Cheboi, J.J.**, Kimno, S.K., Rotich, G, and Ngurwe, J.K. **2016**. Evaluation of Common Bean (*Phaseolus vulgaris* L.) Varieties for Resistance to Bean Stem Maggot (*Ophiomyia* Spp.) in Kenya. American Journal of Experimental Agriculture. 12 (3): 1–7.
 7. **Cheboi, J.J.**, Kimurto, P.K., Kinyua, M.G., Kiplagat, O., Towett, B.K., Kiptoo, J.J., Kirui, S.C., Kimno, S and Gangarao, N.V.P.R. **2015**. Evaluation of selected Pigeonpea (*Cajanus cajan* (L.) Millsp.) genotypes for resistance to insect pest complex in dry areas of North Rift Valley, Kenya. American Journal of Experimental Agriculture. 10 (5): 1–9.
 8. Rotich G, Nyankuri RW, Oduor N, Mmbone S, **Cheboi JJ**, and Kiptoo JJ. **2015**. “Efficacy of varied concentrations of fipronyl 200g/l in the graveyard (Field trial test) control of termites.” American Chemical Science Journal. 11 (1): 1–6.
 9. Kiptoo, J. J., Kasina, M., Wasilwa, L., Ngouajio, M., Martin, T., Too, A., **Cheboi, J.J**, and Nderitu PW. **2015**. Disease Severity on Cabbage Protected from Arthropod Pests with Insecticide Treated Agronets in Kenya. American Journal of Experimental Agriculture. 9 (5): 1–10.

6. CONFERENCES/SEMINAR

1. **Juliana J. Cheboi**, Miriam G. Kinyua, Paul K. Kimurto, Oliver K. Kiplagat, Fredrick N'gan'ga and Sita Ghimire. **2018**. Phytochemical variability in pigeonpea seeds of varied genotypes. RUFORUM Biennial Conference, 22-26 October, 2018, Nairobi, Kenya.
2. **Juliana J. Cheboi**, Oliver K. Kiplagat and Everlyne N. Sikuku. **2018**. Chemical evaluation of nutritional quality among twelve selected elite pigeonpea genotypes across varied agro-ecological zones in Kenya. 1st postgraduate students' research conference, 24-25 May, 2018, University of Eldoret, Kenya
3. **Juliana J. Cheboi**, Miriam G. Kinyua, Paul K. Kimurto, Oliver K. Kiplagat, Fredrick N'gan'ga and Sita Ghimire. **2018**. Variability in biochemical composition among elite pigeonpea (*Cajanus cajan*) genotypes. 1st postgraduate students' research conference, 24-25 May, 2018, 2018, University of Eldoret, Kenya
4. **Cheboi, J.J.**, Kinyua, G.K., Kimurto, K.P., Kiplagat, K.O, Rotich, G., Ganga Rao, N.V.P.R and Odeny, D. **2016**. Assessment of phenotypic and genetic variation among a subset of elite pigeonpea genotypes in Kenya. Pan African Grain Legume and World cowpea conference. 28th February- 4th March, 2016. Livingstone, Zambia
5. **Cheboi, J.J.**, Kimurto, P.K., Kinyua, M.G., Kiplagat, O., Towett, B.K., Kirui, S.C and Gangarao, N.V.P.R. **2016**. Evaluation of Selected Pigeon pea (*Cajanus cajan* (L.) Millsp.) Genotypes for Resistance to Insect Pest Complex in Dry Areas of North Rift valley, Kenya. Pan African Grain Legume and World cowpea conference. 28th February- 4th March, 2016. Livingstone, Zambia.
6. **Cheboi, J.J.**, Kimurto, P.K., Kinyua, M.G., Kiplagat, O., Towett, B.K., Kirui, S.C and Gangarao, N.V.P.R. **2016**. Evaluation of Selected Pigeon pea (*Cajanus cajan* (L.) Millsp.) Genotypes for Resistance to Insect Pest Complex in Dry Areas of North Rift valley, Kenya. Pan African Grain Legume and World cowpea conference. 28th February- 4th March, 2016. Livingstone, Zambia.

7: COMPLETED RESEARCH PROJECTS:

PERIOD	AMOUNT (shs)	TITLE
2017-2019	1,500,000	Promoting pigeonpea production in Kerio Valley to enhance food and nutrition

2016	500,000	Biochemical and nutritional quality analysis among pigeon enhanced nutritional security
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8. ADMINISTRATIVE EXPERIENCE:

Period	Appointment	Responsibilities
2020-date	Committee, Nairobi innovation week	Coordinate Nairobi innovation activities
2020-date	Coordinator-ILRI/FOA Partnership	Organizing ILRI fellows/student monthly seminar series
2019-date	Chairperson, Exhibitions & innovation	Coordinate exhibitions, College of Agriculture and Veterinary Sciences
2018 – date	Deputy examination officer	Coordinate exam process in Department of Plant Science and Crop Protection
2017 – date	Member, mentorship	Coordinate Mentorship and career talks in Department of Plant Science and Crop Protection

9. SHORT COURSES AND TRAININGS ATTENDED:

Date	Place	Course
19 th -21 st June, 2019	Nairobi, Kenya	Pedagogy, Andragogy and mentorship Training
25 th May, 2019	Nairobi, Kenya	Unleashing the potential: using business incubation to harness innovations and build startups for students and staff
5 th May, 2019	Nairobi, Kenya	Service delivery and conflict handling system
27 th Nov-7 th Dec. 2017	Nairobi, Kenya	Scientific Research Paper Writing and communicating Science to Non-Scientific Audience Training
23 rd -27 th Nov. 2015	Nairobi, Kenya	Scientific communication with focus on neglected and underutilized species of plants
7 th -18 th Sep. 2015	Nairobi, Kenya	Advanced Genomics and Bioinformatics

1 st -3 rd Sep. 2014	Nairobi, Kenya	Pigeonpea and Chickpea quality seed production and delivery in East and South Africa
4 th -5 th Sep.2014	Nairobi, Kenya	Integrated Breeding Platform

10. SCHOLARSHIPS/ FELLOWSHIPS/ AWARDS

Fellowships

1. African Biosciences Challenge Fellowship (ABCF) BeCA-ILRI, Hub, Nairobi-Kenya (2017-2018)
2. International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) Genomics lab - ICRAF Campus, Kenya (2015)

Awards

Received an award of being among the best top 10 poster presenters in the RUFORUM Biennial conference presented on 22-26th October 2018 at KICC, Kenya entitled “*Phytochemical variability in pigeonpea seeds of varied genotypes*”

11. REFEREES

1. Prof. Miriam G. Kinyua
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