

## ACADEMIC STAFF PROFESSIONAL PROFILE FORM



### 1. Personal Data

<b>Name:</b> Dr. Ann Wambui Munyaka
<b>Title/Qualifications:</b> PhD
<b>Department/Unit/Section:</b> Department of Foods, Nutrition and Dietetics
<b>Contact Address:</b> Munyaka.ann@ku.ac.ke
<b>Position:</b> Lecturer
<b>Area of Specialization:</b> Food Science and technology
<b>Research Interests:</b> The biochemistry of food processing, Food safety, Food Analysis

### 1. Conference Presentations

S/No	Presenter	Title of Paper presented	City/Country	Date of Conference	Funding (US\$)
1	Ann Munyaka	Acidification, matrix disruption and blanching influence the stability and profile of vitamins in vegetables	Budapest, Hungary	11-13 November 2009	2000
2.	Ann Munyaka	Munyaka A.W., Kiio J.N., Gachoya J. and Ondiek, F. (2019). Heavy Metal Contamination of Sugar and the Sugar Chain Products in Nairobi and the Environs, Kenya. Oral presentation at International Food Safety Conference, Kenyatta University, Nairobi Kenya, 20 <sup>th</sup> to 24 <sup>th</sup> May, 2019	Nairobi, Kenya	20 <sup>th</sup> to 24 <sup>th</sup> May, 2019	
3.	Sheila Cherono	Cherono S, Munyaka A.W. and Kiio, J.N. (2019) Effect of Aflatoxin Exposure on Micronutrient Deficiencies and Growth Retardation among Young Children:	Nairobi, Kenya	20 <sup>th</sup> to 24 <sup>th</sup> May, 2019	

		A Review. Oral presentation at International Food Safety Conference, Kenyatta University, Nairobi Kenya, 20 <sup>th</sup> to 24 <sup>th</sup> May, 2019			
4.	Sheila Cherono	Cherono S., Munyaka A.W and Kiiro J.N. (2019). Assessment of Dietary Aflatoxin Awareness and Exposure Levels and Vitamin A Status of Children (6-23) Months Attending Makueni County Referral Hospital. Oral presentation at International Food Safety Conference, Kenyatta University, Nairobi Kenya, 20 <sup>th</sup> to 24 <sup>th</sup> May, 2019	Nairobi, Kenya	20 <sup>th</sup> to 24 <sup>th</sup> May, 2019	
5.	Miriam Bosire	Bosire M. Munyaka A, Kiiro J.N. (2019), Acceptability of Oyster Mushroom Enriched Millet Porridge among People Living With Hiv/Aids (PLWHAs), Kenya. Oral presentation at International Food Safety Conference, Kenyatta University, Nairobi Kenya, 20 <sup>th</sup> to 24 <sup>th</sup> May, 2019	Nairobi, Kenya	20 <sup>th</sup> to 24 <sup>th</sup> May, 2019	
6.	Gachoya John	Gachoya J.M., Munyaka A.W and Kimiywe J.O. (2019). Nutrient Retention of Solar-Dried African Leafy Vegetables, Kiambu County, Kenya. Oral presentation at International Food Safety Conference, Kenyatta University, Nairobi Kenya, 20 <sup>th</sup> to 24 <sup>th</sup> May, 2019	Nairobi, Kenya	20 <sup>th</sup> to 24 <sup>th</sup> May, 2019	

		24th May, 2019			
7.	Felix Ondiek	Ondiek F.O., Munyaka A.W. and Chege P (2019) Nutrient Composition and Consumer Acceptability of Maize/Mushroom Composite Porridge for Complementary Feeding in Siaya County, Kenya. Oral presentation at International Food Safety Conference, Kenyatta University, Nairobi Kenya, 20 <sup>th</sup> to 24 <sup>th</sup> May, 2019	Nairobi, Kenya	20 <sup>th</sup> to 24 <sup>th</sup> May, 2019	

## 2. Research

S/ No	Researcher	Year	Title	Donor	Funding (US\$)
1	Ann Wambui Munyaka	2005-2010	Effect of (pre)processing on the stability of folates and ascorbic acid in broccoli: The role of endogenous enzymes	Katholieke Univeristy of Leuven, Belgium	110,000

## 3. Publications

S/N o.	Author	Year	Title	Journal	ISBN/ISSN Reference No.
1	Gachoya, JM. Munyaka AW and Kimiywe, JO	2020	Nutrient Retention of Solar-Dried African Leafy Vegetables, Kiambu County, Kenya.	Food Safety From Farm to Fork: Emerging ang Re-emerging Isssues. Edited by Juliana Kiio and Christine Njuguna	ISBN(10): 1-5275-5583-6 ISBN(13): 978-1-5275-5583-9
2	Nyakundi, P.N. , Kiio, J., and Munyaka, A.	2020	Does Education Level, Household Income, Budget for Food and	<i>EC Nutrition</i> 15.10 (2020): 41-49	

	(2020).		Birth Interval Predict the Iron Status of Women of Childbearing age in Nandi County, Kenya?		
3	Ondiek FO, Chege PM, Munyaka AW	2019	Nutritional Value of a Mushroom Fortified Maize Porridge for Complementary Feeding in Siaya County Kenya.	1. Nutr Food Technol Open Access 5(2): dx.doi.org /10.16966 /2470- 6086.160	ISSN 2470-6086
4	Auguste AA, Kimiye J, Munyaka A.	2019	Health Workers Knowledge, Attitude and Practices on Nutrition Information in Mother Child Health Handbook in Turkana West Sub- County, Kenya: A Cross Sectional Study	J Pediatr Womens Healthcare. 2019; 2(2): 1017.	ISSN 2643-797X
5	Mwaniki N, Chege PM and Munyaka A	2019	Dietary Diversity, Iron Intake and Anemia among Pregnant Women in Embu County, Kenya.	Nutr Food Technol Open Access 5(1): dx.doi.org/10.1696 6/2470-6086.158	ISSN 2470-6086
6	Mbijiwe, J., Chege, P., Munyaka, A. Vol.9; Issue: 8, pages 406- 410.	2019	Assessment of Physical Activity Level and Its Effects on Blood Pressure Control among Hypertensive Patients Attending Kiambu Level Five Hospital, Kenya.	International Journal of Health Sciences & Research	ISSN: 2249 - 9571
7	Moyo B.H, Munyaka- Ng'ang'a A. and Chege P	2017	Childcare Practices, Morbidity Status and Nutrition Status of Preschool Children (24-59 Months)	International Journal of Health Sciences and Research. Volume 7, Issue: 11, Pages	ISSN: 2249 - 9571

			Living in Orphanages in Kwale County, Kenya.	263-275.	
8	Mbijime, J., Chege, P., Munyaka, A. (2017).	2017	Relationship between Body Mass Index and Blood Pressure Level in Hypertensive Patients Attending Kiambu District Hospital, Kenya.	<i>International Journal of Health Sciences and Research</i> . Volume 7, Issue 10 Pages 224-229	ISSN: 2249 - 9571
9	Munyaka, A.W.; Makule, E.E.; Oey, I.; Van Loey, A. and Hendrickx	2010	Thermal stability of L-ascorbic acid and ascorbic acid oxidase in broccoli ( <i>Brassica oleracea var. italica</i> ).	<i>Journal of Food Science</i> 75:C336-C340)	doi: 10.1111/j.1750-3841.2010.01573.x
10	Munyaka, A.W.; Verlinde, P.; Mukisa, I.M. Oey, I.; Van Loey, A. and Hendrickx, M.	2010	Influence of thermal processing on hydrolysis and stability of folate poly- $\gamma$ -glutamates in broccoli ( <i>Brassica oleracea var. italica</i> ), carrot ( <i>Daucus carota</i> ) and tomato ( <i>Lycopersicon esculentum</i> ).	<i>Journal of Agricultural and Food Chemistry</i> 58: 4230–4240	DOI:10.1021/jf100004w
11	Munyaka, A.W.; Oey, I.; Verlinde, P.; Van Loey, A. and Hendrickx, M.	2009	Acidification, crushing and thermal treatments can influence the profile and stability of folate poly- $\gamma$ -glutamates in broccoli ( <i>Brassica oleracea L. var. italica</i> ).	<i>Food Chemistry</i> 117: 568–575.	doi:10.1016/j.foodchem.2009.04.036
12	Munyaka, A.W.; Oey, I.; Van Loey, A. and Hendrickx, M. (2009)	2009	Application of thermal inactivation of enzymes during vitamin C analysis to study the influence of acidification, crushing and blanching on vitamin C stability in Broccoli ( <i>Brassica oleracea L. var. italica</i> )	<i>Food Chemistry</i> 120: 591–598.	doi:10.1016/j.foodchem.2009.10.029

#### 4. Supervision of postgraduate students

S/No	Name of student	Thesis title	Status of project(e.g.First year etc)
1.	Nicolletta Muthoni Mwaniki	Dietary Diversity, Dietary Iron Intake And Iron Status Among Pregnant Women In Embu County Kenya	completed
2.	Nakhula Gladys Atieno	Food security and Nutritional status of children aged 6-59 months in households practicing urban farming in Kangemi, Westlands subcounty, Nairobi county	Proposal stage
3.	Mbijiwe Jane Gatwiri	Dietary practices and physical activity level as predisposing factors for hypertension among female employees at kenyatta university, kenya	completed
4.	Burhaan Bakari Moyo	Nutritional knowledge of caregivers and nutritional status of children aged 6 - 59 months in children's homes in msambweni sub-county, kwale county, kenya	completed
5.	Joyce Nyanga	Factors Associated with Food and Nutrition Security among HIV positive patients attending Comprehensive Care Clinic at Vihiga District Hospital, Vihiga County	Proposal stage
6.	Kuria Zaveria Wagaki	A Comparative Study on Food Security and Nutritional Status between Fish Farming and Non-Fish farming Households in Chogoria Ward Tharaka-Nithi County	Proposal stage
7.	Kiogora Betty Kanorio	Dietary practices, Traditional Food Processing Techniques of Enhancing Zinc bioavailability and zinc status of pregnant women in Kitui county, Kenya	Proposal stage
8.	Azra Antonia Auguste	Assessment of Knowledge, Attitude and Practices of Health care workers on Nutrition Information Contained, in the Mother Child Health Handbook in Turkana West Subcounty	completed
9.	Collins Ooko Ogutu	The Effect of Preparation and Cooking Treatments on the Profile and Content of Nutrients in Kenyan Local Fruits and Vegetables	Thesis writing stage
10.	Ondiek Felix Odhiambo	Nutrient Content and Sensory Acceptability of Maize/Mushroom Based Porridge for Use in Complementary Feeding in Siaya County, Kenya	completed
11.	Malla Janet Kajuju	Effect of <i>Moringa Oleifera</i> Consumption on Protein and Vitamin A Status of Children with Cerebral Palsy in Nairobi	Thesis writing stage

		Kenya: A Randomized Controlled Trial	
12.	Miriam Bosire	Determination of Antioxidants in Fresh and Solar-Dried Oyster Mushrooms and Sensory Acceptability of Mushroom-Millet Porridge Blend Among Adults with Hiv/Aids	Thesis writing stage
13.	Susan Karenya	Zinc Bioaccessibility and Sensory Acceptability of Porridge Prepared Using Composite Flours Based on Zinc Biofortified Mushroom and Germinated Sorghum.	Thesis writing stage
14.	Ongeta Mokeira Lydia	Complementary Feeding Practices and Nutrition Status of Children Aged 6-23 Months in Marani Sub County In Kisii County, Kenya	Thesis examination stage
15.	Rael Sum	Blood Pressure and Associated Hypertension Risk Factors Among Uasin Gishu District Hospital Staff, Uasin Gishu County	completed
16.	John Gachoya	Nutrient Retention and Sensory Acceptability of Solar-Dried African Leafy Vegetables Among Women of Reproductive Age, Kiambu County, Kenya	completed
17.	Esther Mbithi	Association Between Serum Zinc Status and Length For Age of Children 6-23 Months of Age in Kitui County, Kenya	Proposal stage
18.	Anthony Irungu	Iron Content of Commonly Consumed Complementary Feeding Flours, Dietary Diversity and Iron Status Among Children 6-23 Months in Mathare Slums, Kenya	Proposal stage
19.	Beatrice M. Mugo	Blanching Time- Temperature Optimization In Kales And Spinach For Potassium Reduction And Vitamin Retention For Renal Patients In Kiambu, Kenya	Second

20.	Caroline Njeri Kamau	Dietary Behavior, Medical History and Socio-Demographic Characteristics of Mothers Delivering Macrosomic Infants in Nairobi City County, Kenya	Proposal stage
21.	Caroline Okiko	Heavy Metals Concentration In Assorted Vegetables In Kiambu County And The Health Implications To The Consumers	Proposal stage
22.	Gicheha Phoebe Wangeci	Dietary Diversity, Food Safety Knowledge, Attitude And Practices Of Food Handlers In Public Secondary Schools In Nyeri County	Proposal stage
23.	Jacqueline Macharia	Weight Management Approaches and Success in Weight Loss in Overweight and Obese Youth (18-30 Years) Working in Selected Banks in Nairobi County, Kenya	Proposal stage
24.	Janice Gatakaa Gitari	Agricultural Commercialization, Household Food Security and Nutrition Status of Children Aged 6-59 Months in Tharaka-Nithi County, Kenya	Examination stage
25.	Musau, Kelvin	Intra-Household Bargaining Power and Nutrition Status of Children Under Five Years: Case of Small-Holder Farmers, Kakamega County, Kenya	Proposal stage
26.	Lucy Wambura Mwaura	Determination of Micronutrients and Aflatoxin Levels in Complementary Foods and Children's Blood Serum in Makueni County, Kenya	Proposal stage
27.	Ongeta Mokeira Lydia	Predictors of Nutrition Status of Children Aged 6-23 Months old in Marani Sub County in Kisii County, Kenya.	Examination stage
28.	Munyao Jacqueline Mutheu	Consumer Acceptability Studies on Finger-Millet Based Formulated Foods	Proposal stage
29.	Nyakundi Patrick Nyamemba	Consumption Patterns Of Tea, Iron- And Ascorbate-Rich Foods And Iron Status Among Women Of Childbearing Age In Nandi County, Kenya	Awaiting Graduation
30.	Sum Jepchumba Rael	Blood Pressure And Its Associated Risk Factors Among Staff At Uasin Gishu Level 5 Hospital, Uasin Gishu County, Kenya	Graduated
31.	Rhoda Nakosi	Perception Of Mothers On Use Of Edible Insects For Complementary Feeding And Nutrition Status Of Children 6-23 Months In Kakamega And Siaya Counties, Kenya	Thesis writing stage



32.	Cherono Sheila	Effects Of Dietary Aflatoxin Exposure On The Levels Of Vitamin A In Children (6-24) Months Attending Makueni County Referral Hospital	Thesis Writing stage