

BiZiFED: Biofortified Zinc Flour to Eliminate Deficiency

Objective 4 – training and capacity building



Training for staff and students



- What are we aiming to do in this Objective?
 - 1 Staff and student training
 - 2 Future training and development
 - 3 Developing and strengthening capacity

Staff training: Senior staff



Comet assay
A technique to
measure how
nutrient
deficiencies can
result in damage to
DNA



Dark adaptation methods
A method to test how nutrient
status can affect visual capacity



Nutrition Society summer 2017

Nutrition Society 2018

Staff training: Dark adaptation



Two students trained in methods

They have trained three more students:

Validation study completed in 100 individuals

Obesity, plasma lipids, vitamin A and dark adaptation study nearly completed

Well set up for analysis of zinc study

Staff training: Diet diaries, 24 h recall, dietary methods and interview skills



24h dietary recall allows us to determine how any intervention might alter diet

These can also be used for assessing normal diet – often used to studying the health of the nation

Analysis of dietary information is sophisticated and staff have been trained in how to do this.

Interview techniques and approaches – for farmers and other stakeholders

Staff training: Lab analyses



Developing QA methods and protocols

Developing lab methods and analytical approaches to determine the procedures outlined by Prof Lowe

Training students and other staff



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Future plans



- Develop qualitative methods and provide training
- Develop grant applications for conducting biomarker development and fecal/microbiological analysis
- Develop a cadre of trained scientists at KMU capable of carrying out future research projects and provide training to future scientists.



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