**Training proposal**

**Food Science and Nutrition Research Directorate**

**Training Contents**

1. ***Research ethics in the context of Food Science***

* Topic objective:
  + To provide researchers with basic understanding of the ethical considerations in undertaking experiments in food science
  + To share experiences in the area of ethical violations in the research system so that food science researchers will adhere to the basics of research ethics
* Sub topics:
  + Briefings on the ethical issues found important for discussion (lessons learnt in the process of proceeding compilation)
  + Proprietary rights and research nobility
  + Teamwork and individual excellency
  + Research findings and information sharing
  + What will be our IPR issues, in the upcoming engagements?
  + Authorship related issues
* Target:
  + All researchers in the directorate clearly understand the right and wrong doings in research environment
  + All researchers understands the minimum requirements in research engagements, responsibility sharing and publications
* Materials to be used:
  + Presentation slide (ppt)
  + Examples of issues for discussion
* Method
  + Presentation
  + Group discussion
* Allocated time: 4 h
* Duration: 1st day (~Monday)
* Facilitator: Tesfaye S.
* Responsibility: Tesfaye S., Solomon A.

1. ***Experimental design and data management***

Topic objective:

* To improve knowledge of researchers on the area of experimental designing and data management: *customized to food science*

Target:

* An average of 90% researchers improve their understanding, 60% produced draft proposal, and 30% perform analysis of their own data

Sub topics:

* Objective seating
* Hypothesis testing
* Experimental designs (use of experts design, and other tools)
* Data collection and organization
* Data analysis
* Data presentation

Materials to be used:

* Statistical books
* Manuals
* Practical examples

Allocated time: 12 hr

Duration: (Monday ~ Tuesday) 2nd half of 1st day and 2nd full day

Facilitator: Solomon A.

Responsibility: Invited guest, Alganesh T., Tesfaye S., Solomon A.

1. ***Scientific paper writing, presenting in conference and publications***

Topic objective:

* To share good lessons of senior researchers in the area of manuscript reviews submitted by members of the directorate
* To improve scientific quality and encourage more paper submission of researchers in the directorate
* To enable researchers to prepare presentations to be interesting, persuasive and to co communicate key messages; and share best ways to interact with audience, control and handle challenging individuals

Sub topics:

* Scientific paper writing
* Participation in conferences and paper presentation
* Submitting manuscripts and publication related issues

Materials to be used:

* PPTs
* Reference books and manuals
* Sample publications (good and bad)
* Individual experiences

Allocated time: 20 hr

Duration: Wednesday ~ Friday 1/2

Facilitator: Girum H.

Responsibility: Girum H., Tesfaye S., Solomon A.