4th International Conference on **Food Microbiology and Food Market**

March 20-21, 2019 | New York, USA

VIDEO PRESENTATIONS | DAY 2

JOURNAL OF NUTRITION & FOOD SCIENCES 2019, VOLUME 9 | DOI: 10.4172/2155-9600-C3-095

Microbiological and physicochemical changes in palm wine subjected to spontaneous fermentation during storage

Afolabi FT and Owoola AT University of Ibadan, Nigeria

Palm wine is as a result of the spontaneous fermentation of the sap of various palm plants. This study aimed at isolating and identify the yeasts from palm wine subjected to spontaneous fermentation during storage. A total of forty (40) yeast

isolates were obtained from spontaneously fermented palm wine samples. The yeast counts obtained ranged from 5.46x104cfu/ml at day one to 3.00x102cfu/ml at day twentytwo. Saccharomyces cerevisiae was isolated at all stages of fermentation. The pH dropped from 3.70 at 24hours to 3.37 at 360hours. Total titratable acidity of the wine increased from 2.28% at 24hours to 4.50% at 528hours. Total sugar of the stored palm wine from decreased from 4.0211g/10ml at 24hours to 0.6417g/10ml at 528hours was observed. The reducing sugar content of the

stored palm wine decreased from 13% at 24hours to 0.960% at 456 hours was also observed. The ethanol content of the stored palm wine increased steadily from 21.06mg/ml at 24hours to 88.99mg/ml at 456hours as the storage time increases. Palm wine whose storage time is not beyond 120hours is not injurious to the health of consumers.

Biography

Afolabi is Lecturer in the Department of Microbiology, University of Ibadan, Nigeria. She has published so many research works in reputable microbiology journals while Owoola is my Postgraduate student.

folakeojo1@yahoo.com