

Editorial

The fourth issue of the sixteenth volume of AU Journal of Technology contains contributions from the fields of biotechnology, medical technology, power electronics and communications technology.

The Research Paper entitled “A Study of Lime Beer Formulations” by Wei Yue Lin and Churdchai Cheowtirakul investigates the optimum formulation for lime juice beer production. The authors report that lime juice beer can be produced by adding juice during the beer fermentation process which results in a beer having high sensory acceptability, high quality, good taste and unique flavor.

The Research Paper entitled “Effect of VirF on the Promoter Activity of *yscW-virF* Operon in *Yersinia enterocolitica*” by Thuan Nghi Vu and Glenn Marvin Young studies *Yersinia enterocolitica*, a gastro-intestinal foodborne pathogen, and the effectors which are essential for the bacteria to survive and overcome the host immune system. The authors discuss transcriptional activators and intermediate regulators of the mechanisms of transcriptional control.

The Research Paper entitled “Finite Element Analysis of Cardiovascular Stents” by Chavdar Momchilov Hardalov, Mihail Stoyanov Mihalev, Plamen Petkov, Peter Stefanov and Lilia Vladimirova-Mihaleva evaluates experimentally and computationally two cardiovascular stents. Finite element analysis is used for the prediction of the mechanical behavior and fatigue lifetime of the stents before production.

The Review Article entitled “Curing Incurable Alzheimer’s Disease with Medicinal Plants” by Narong Chomchalow is a survey of current efforts to use medicinal plants for the treatment of Alzheimer’s disease.

The Book Review entitled “A Conceptual Review of “Digital Communication Systems” (Author: Simon Haykin, 2014)” by Dobri Atanassov Batovski is a positive reflection on modern concepts in communications technology.

The Technical Report entitled “The Application of Computer Programming in Transformer Design” by Omokhafa James Tola, James Garba Ambafi, Asizehi Yahaya Enesi and Abiola Adefemi Shadrack presents a computer-aided design of a three-phase core type transformer with the use of a graphical user interface.

The Technical Report entitled “Effect of Contingency on Available Transfer Capability of Nigerian 330-kV Network” by Ahmad Abubakar Sadiq, Mark Ndubuka Nwohu, James Garba Ambafi and Lanre Joseph Olatomiwa is an assessment of the inter-area available transfer capability of Nigerian 330-kV power grid. Simultaneous inter-area transfer is considered to complement a generator outage contingency.

The Technical Report entitled “Virulence-Marker Distribution and Antibiotic Resistance in *Enterococcus* spp. Isolated from Tertiary Health Care Facility in Ekiti State, Nigeria” by David Moses Oluwole, Michael Alegbeleye, Labake Elizabeth Ayeni and Oladiran Famurewa considers virulence factors and antibiotic-resistance in enterococci isolated from the clinical samples and hospital environment in a tertiary health care facility. It is pointed out that the vancomycin resistance among enterococci poses a serious clinical problem.

The Technical Report entitled “The Prevalence of Malaria Parasitaemia and Predisposition of ABO Blood Groups to *Plasmodium falciparum* Malaria among Blood Donors at a Ghanaian Hospital” by Sirina Muntaka and Clement Opoku-Okrah does not support the assertion that individuals with certain blood groups are predisposed to *Plasmodium falciparum* malaria infection. This implies that there should not be any bias towards a particular ABO blood type in the management and control of malaria.

The Letter entitled “Comparing the Microbial Load on Hide and Beef Carcasses at Minna Abattoir” by Safiya Yahaya Daniyan and Emmanuel Enejo Unwuchiola includes test results of the contamination of beef carcasses. The microbial load is analyzed for three cattle cleanliness categories and recommendations for the establishment of standard abattoir facilities are given.

Narong Chomchalow, Editor, AU J.T.