

**CApIC-ACE** introduces weekly virtual seminar series for its students to engage them, encourage continuous learning and ensure that they are not lagging behind in their studies...

Stage	Transcripts	Proteins
Liver stages including hypozoitotes (P. vivax)	1000	1000
Rings	1000	1000
Trophozoites	1000	1000
Macrophages	1000	1000
Trophozoites	1000	1000
Gametocytes	1000	1000

COVENANT UNIVERSITY  
THE WORLD UNIVERSITY RANKINGS  
A REVIEW OF COMPUTATIONAL PROTEIN-PROTEIN INTERACTION IN THE COMBAT AGAINST MALARIA.  
Presented by **Oluwamuyiwa Fesobi Andrew**  
Under the supervision of **Dr. Jellil Oyelade**  
CApIC-ACE VIRTUAL SEMINAR SERIES MAY 2020

UNDERSTANDING PATTERN OF INSECTICIDAL RESISTANCE IN MOSQUITOES ACROSS AFRICA  
BY  
**JESUJOBA OWOLABI**  
(M.Sc. Bioinformatics, 190000575)  
SUPERVISOR: DR. T. DOKUNMU  
COVENANT APPLIED INFORMATICS AND COMMUNICATION AFRICA CENTRE OF EXCELLENCE (CApIC-ACE)

OPEN ACCESS Freely available online  
**The Impact of Pyrethroid Resistance on the Efficacy of Insecticide-Treated Bed Nets against African Anopheline Mosquitoes: Systematic Review and Meta-Analysis**  
Clare Strode<sup>1,2\*</sup>, Sarah Donegan<sup>1</sup>, Paul Garner<sup>1</sup>, Ahmad Ali Enayati<sup>3</sup>, Janet Hemingway<sup>3</sup>  
BY  
**JESUJOBA OWOLABI**  
(M.Sc. BIOINFORMATICS, 190000575)  
SUPERVISOR: DR. T. DOKUNMU

INTRODUCTION  
Malaria is a life-threatening disease caused by plasmodium parasites that are transmitted to people through the bites of female Anopheles mosquitoes.  
The most important vectors of malaria are members of *An. gambiae* because they are the most widespread in Africa and the most difficult vectors to control.  
Mechanisms of insecticidal resistance in mosquitoes is multi-facet involving:  
• target-site resistance,  
• metabolic resistance,  
• phenotypic and cuticular resistance (Miranda et al. 2014).

A PRESENTATION ON  
**APPLICATIONS OF RANDOM FOREST IN GENOMICS**  
By: **APATA OLUWABUKOLA RACHEAL**  
CApIC-ACE RA, MSc. Bioinformatics  
Supervisor: **Dr. Itunuoluwa Isewon**  
Computer and Information Science Dept.  
COVENANT APPLIED INFORMATICS AND COMMUNICATION AFRICA CENTRE OF EXCELLENCE (CApIC-ACE)

**Data Integration in Genetics and Genomics: Methods and Challenges**  
(Jemila et al, 2009)

**OUTLINE**

- Overview of Random Forest
- Applications of Random Forest in Genomics
- Drug Sensitivity
- Cancer Types Prediction
- Research Article Review

Motivation  
Datasets and Application

© CApIC-ACE CApIC-ACE Virtual Seminar Series

**INTRODUCTION**

- The increasing amounts of genomic data have become available and structure of these data have also been growing at an unprecedented rate.
- Data integration plays an important role in understanding environment-genome interactions in toxicogenomics.
- Data integration relates to combining similar types of data across different studies through meta-analytic approaches.
- The challenges in data integration may include: experimental, computational, or statistical complexities.
- Data integration in general is divided into two broad categories: integration of similar data types and integration of heterogeneous data types.

# CLOUD PERFORMANCE BASED ANOMALY DETECTION TECHNIQUES

Presented by: MOLO MBASA Joaquim  
Supervisor : Dr. Joke Badejo

# FEDERATED CLOUD RESOURCE MANAGEMENT

By Nzanzu Vingi Patrick  
Supervisor : Prof. E. Adetiba

## OUTLINE

1. INTRODUCTION
2. CLOUD PERFORMANCE ISSUES
3. TYPES OF ANOMALIES
4. ANOMALY DETECTION TECHNIQUES
5. CONCLUSION

© CapIC-ACE CapIC-ACE Virtual Seminar Series 2020

## PRESENTATION OUTLINE

- 01 Introduction
- 02 Background
- 03 Resource Management(RM) in Federated Cloud
- 04 Taxonomy of RM in Federated Cloud
- 05 Gaps in the Presented Taxonomy of RM
- 06 Conclusion

© CapIC-ACE CapIC-ACE Virtual Seminar Series 2020