



# H3ABioNet

Pan African Bioinformatics Network for H3Africa

**Introduction to Bioinformatics course: IBT**

# Introduction

## Part 4

## Why IBT?



**H3ABioNet**

Pan African Bioinformatics Network for H3Africa



Introduction to Bioinformatics online course : IBT

Verena Ras

# Why IBT?

## The Need Basic Bioinformatics training for Molecular Biologists

*‘need for basic bioinformatics training for individuals entering the discipline, or for those who need a basic foundational understanding of bioinformatics before moving on to more complex areas’ – H3ABioNet Education & Training Working Group*

# Audience

- molecular biologists
- Little to no bioinformatics experience

# Skills-based curriculum

## Learning outcomes:

- measurable - skills gained
  - what the participant will learn
- 
- Important for participants to be able to go out and perform the analyses on their own after the course -> **web based applications**

# Modules and primary trainers

- Resources and databases (16 hrs)**



Shaun Aron, University of the Witwatersrand, South Africa



Nicola Mulder, University of Cape Town, South Africa

- Linux (12 hrs)**



Amel Ghouila, Institute Pasteur de Tunis, Tunisia

- Molecular evolution and Phylogenetics (16 hrs)**



Jean-Baka Domelevo Entfellner, University of the Western Cape, South Africa

- Sequence alignment theory & applications (12 hrs)**



Jonathan Kayondo, Uganda Virus Research Institute, Uganda



Sonal Henson, International Centre of Insect Physiology and Ecology, Kenya

- Multiple sequence alignment (8 hrs)**



Ahmed Mansour Alzohairy, Zagazig University, Egypt

- Genomics (16 hrs)**



Colleen Saunders, University of the Western Cape, South Africa



Fatma Guerfali, Institute Pasteur de Tunis, Tunisia

# Next

watch video labeled:  
Part 5