Introduction to Bioinformatics course: IBT

Introduction

Part 4

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
Introduction to Bioinformatics online course: IBT

**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
  - 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 Insection Physiology and Ecology, Kenya

- **Molecular evolution and Phylogenetics (16 hrs)**
  - Ahmed Mansour Alzohairy, Zagazig University, Egypt
  - Colleen Saunders, University of the Western Cape, South Africa

- **Multiple sequence alignment (8 hrs)**

- **Genomics (16 hrs)**
  - Fatma Guerfali, Institute Pasteur de Tunis, Tunisia

**Additional resources**

- **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
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watch video labeled:  
Part 5