Wrap Up Session

Part 1 - Introduction
It’s only the Beginning...

Aims:

• Reflect on the IBT course
• Identify and determine how to continue utilizing the IBT support structures (within and across classrooms)
• Provide information regarding H3ABioNet and local bioinformatics support, as well as where to find this information.
Learning Outcomes

• reflect on the IBT course and provide anonymous feedback
• reflect on one’s confidence to perform particular bioinformatics actions
• be able to explain what H3ABioNet is and what tools and services are available
• be able to name the H3ABioNet node ambassador for one’s institution, and will know his/her role
• know the bioinformatics activities and resources available at one’s local institution
• have access to a list of ways in which they can continue to utilize the IBT support structures after the IBT course.
Logistics for today’s session

• follow the workshop day plan - prompts to play pre-recorded lecture videos
• Day plan available on course website: https://training.h3abionet.org/IBT_2017/?page_id=2292
• Videos will contain instructions for each activity
• Stop the videos and complete the activity when prompted
• Please note: part 7 (‘Brainstorming how to keep in touch’ – 13:15 CAT), will take place IN MCONF
• Any questions? Vula forums
Watch video labeled: Part 2
Wrap Up Session

Part 2 – The Good, the Funny, and the Frustrating
The Good, the Funny, and the Frustrating

Activity 1 (10-15 minutes)

1. Divide into small groups of 3-4 people (at least one staff member per group, if possible)

2. Each person to describe:
   – Memory of a moment when they felt good in the IBT course
   – Memory of something funny that happened during the IBT course
   – Memory of when they felt frustrated by something in the IBT course and how they managed to overcome that frustration
Next

Only once you have completed activity 1, watch video labeled: Part 3
Wrap Up Session
Part 3 – IBT Highlights
IBT Highlights

Activity 2 (15 minutes) - activity for the entire classroom, together

1. Move chairs into a circle
2. Select a scribe
3. Brainstorm your classroom’s IBT highlights
4. Scribe to write down all suggestions (where everyone can see them)
5. Select top 2-4 highlights (by voting)
6. Each classroom should then post the top 2-4 on the Vula forums as a reply to their ‘meet the classrooms’ post. Begin the post with

“Our highlights of IBT this year were

1. ..., 2. ..., etc.”
Next

Only once you have completed activity 2, and have uploaded your answer to the Vula forums:

watch video labeled:

Part 4
Introduction to Bioinformatics course: IBT

Wrap Up Session

Part 4 – Self reflection: “How confident are you?”
‘On a scale from 1 to 5...’

Activity 3 (10 minutes):
1. Navigate to IBT Vula site -> Feedback -> Take 2 – ‘How confident are you to...’
2. Fill out the form
3. Take time to reflect on your what your answers were to these questions at the beginning of the course.

Has your confidence changed?
Only once you have completed activity 3:

watch video labeled:

Part 5
Wrap Up Session

Part 5 – H3ABioNet overview
H3ABioNet

- A sustainable African Bioinformatics Network
- Provide bioinformatics infrastructure and support for the H3Africa consortium
- Consists of nodes with different levels of bioinformatics expertise
- 32 partners in 14 countries
What has H3ABioNet done?

- Infrastructure and capacity development
  - Servers and eBioKits
  - Connectivity between nodes, internet connectivity
  - Bioinformatics help desk [http://www.h3abionet.org/support?view=detail&cid=-1](http://www.h3abionet.org/support?view=detail&cid=-1)
  - Data transfer between nodes
  - Data storage
  - Training in IT, data management
  - Tool and resource development
What has H3ABioNet done?

• Main focus areas of data analysis:
  ✓ Targeted sequencing
  ✓ Pathogen sequencing
  ✓ Microbiome 16s rRNA sequencing
  ✓ Exome sequencing
  ✓ Whole genome sequencing
  ✓ Genotyping arrays
Data Analysis Pipelines

• Docker containers built for main H3Africa data analysis pipelines – paper in progress
• Associated SOPs developed together with practice datasets - http://www.h3abionet.org/tools-and-resources/sops
Data Analysis Pipelines

• SOPs and practice datasets available for:
  – NGS variant calling
  – Genome association studies
  – 16s rRNA diversity analysis

• Further SOPs under development
  – RNA seq
  – Variant annotation and prioritisation

• Guidelines on server setup and general system administration
H3ABioNet provides access to experts from a variety of domains to help answer any bioinformatics related questions and provide support to various H3Africa and non H3Africa projects that might be struggling with the analysis and planning of their experiments. The H3ABioNet helpdesk system accepts requests from the H3ABioNet web portal registered and non-registered users and can be accessed from here.
Training

• Hosted several workshops on a range of bioinformatics topics
• List of workshops available here: [http://www.h3abionet.org/training-and-education/h3abionet-courses](http://www.h3abionet.org/training-and-education/h3abionet-courses)
• In the process of updating and organising this resource
• Linking to eGenomics catalogue
What is the eGenomics Catalogue?

The eGenomics catalogue was initiated by H3ABioNet and is maintained by volunteers from across the globe, in particular H3Africa Fellows. This catalogue maintains free online Genomics educational material and community based reviews/evaluations. The material aggregated via this web-site includes: Books; Journals, Courses, MOOCs, Opencourseware Databases. The material is categorized based on topics proposed by the H3Africa Education and Coordinated Training Working Group, in addition the EDAM ontology has been used to categorize Bioinformatics relevant courses.
Other projects

- Design of a new African genotyping array
- Development of a participant recruitment database
- Development of an H3Africa data archive
- H3ABioNet seminar series and journal club
- Workshop proposals and internships
- [http://www.h3abionet.org/](http://www.h3abionet.org/)
Acknowledgements

- H3ABioNet is funded through NIH Common Fund, NHGRI grant: U41HG006941
Next

watch video labeled:
Part 6
Wrap Up Session
Part 6 – What’s happening at your institution?
Bioinformatics at your Institution

- Bioinformatics expertise
- Bioinformatics Software and Computational resources
- Bioinformatics Activities
- Where to find support and further information
- What and who the Node Ambassador
Bioinformatics at your Institution

Activity 4 (30-40 mins)

Part 1:
• Staff presentation
• Meet the Node Ambassador

Part 2:
• Q&A session

Part 3:
• Summarize the main points of the presentation and add them to the Vula forums as a reply to your classrooms ‘meet the classroom’ post
Once you have completed activity 4:
watch video labeled:
Part 7
Wrap Up Session

Part 7 – Brainstorming how to stay in touch – in MCONF
Discussion in Mconf

For discussion:

• What support structures exist within IBT classrooms?
• What support structures exist between IBT classrooms?
• For each support structure, how can we continue to utilize it post IBT?

Vula forums -> Wrap up Session
Next

Sign in to Mconf now (if you are in your classroom and formally enrolled in the course)

After our discussion in Mconf, watch video labeled: Part 8
Introduction to Bioinformatics course: IBT

Wrap Up Session

Part 8 – Feedback
Tell us what you thought of IBT

Activity

Feedback forms

• Participants and staff – tell us what you thought of IBT, overall

IBT Vula site -> Feedback -> IBT course overview

• A reminder about the informed consent form

IBT Vula site -> Feedback ->

IBT informed consent
Once you have completed the activity:

watch video labeled:

Part 9
Introduction to Bioinformatics course: IBT

Wrap Up Session

Part 9 – Thank You!
Thank you, All

• On behalf of the IBT core team – Shaun Aron, Kim Gurwitz, Suresh Maslamoney, Sumir Panji, Nicola Mulder - we thank you....

• Local staff
• Expert trainers
• consultants
• Vula and Mconf teams
• participants
See You Soon!