

# MIT-Haiti Initiative - STAR Biology Workshops

January 16<sup>th</sup>-19<sup>th</sup>, 2013

## Day 1 – Wednesday, January 16<sup>th</sup>

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|----------------|---|
| 8:30-9:00 am   | General Introduction  |
| 9:00-9:45 am   | Introduction to Pedagogy & Assessment   |
| 9:45-10:45 am  | Introduction to Active Learning   |
| 10:45-11:00 am | Break   |
|                | <b>StarBiochem Workshop</b>   |
| 11:00-1:00 pm  | <ol style="list-style-type: none"><li>1. Introduction to STAR Biology Tools</li><li>2. Introduction to StarBiochem<ul style="list-style-type: none"><li>• Educational objective of the software &amp; software capabilities</li><li>• Hands-on guided tour</li></ul></li><li>3. StarBiochem hands-on activity - Basic<br/>StarBiochem Exploratory Exercise</li></ol>  |
| 1:00-2:00 pm   | Lunch   |
| 2:00-6:00 pm   | <ol style="list-style-type: none"><li>4. Examples of StarBiochem educational applications<ul style="list-style-type: none"><li>• In-class activities</li><li>• Laboratory activities</li><li>• Outside-class activities</li></ul></li><li>5. StarBiochem hands-on activity - Advanced<br/>DNA Glycosylase Exercise Parts 1-2</li><li>6. Designing &amp; writing your own StarBiochem activities<ul style="list-style-type: none"><li>• Finding structures in the Protein Data Bank</li><li>• Illustration of design process</li></ul></li></ol> |

## Day 2 – Thursday, January 17<sup>th</sup>

- 9:00-9:30 am Introduction to Educational Technologies (Part I)
- StarGenetics Workshop**
- 9:30-1:00 pm
1. Introduction to StarGenetics
    - Educational objective of the software & software capabilities
    - Hands-on guided tour
  2. StarGenetics hands-on activity  
StarGenetics Guided Tutorial
- 1:00-2:00 pm Lunch
- 2:00-6:00 pm
3. Examples of StarGenetics educational applications
    - In-class activities
    - Laboratory activities
    - Outside-class activities
  4. StarGenetics hands-on activities  
StarGenetics Fruit Fly Exercise 1 – Level 2  
StarGenetics Fruit Fly Exercise 8
  5. Designing & writing your own StarGenetics activities (Part I)
    - Introduction to building custom StarGenetics exercises
    - Hands-on activity building StarGenetics exercises (Peas)

## Day 3 – Friday, January 18<sup>th</sup>

- 9:00-9:30 am Introduction to Educational Technologies (Part II)
- 9:30-1:00 pm Assessment & Evaluation Workshop
- 1:00-2:00 pm Lunch
- Curriculum Development Workshop & Activities**
- 2:00-6:00 pm
- Designing & writing your own StarGenetics activities (Part II)
- Hands-on activity building advanced StarGenetics exercises (Flies)
  - Group activity: build your own StarGenetics exercise

## Day 4 – Saturday, January 19<sup>th</sup>

- 9:00-1:00 pm Closing Presentations