Supplemental Resources:

**Supplemental Table 1: Objectives and method of assessment.**

<table>
<thead>
<tr>
<th>Course learning objectives</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>After this program, students will be able to:</td>
<td>Survey</td>
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<tr>
<td>Describe cancer as a genetic disease, how it develops, and what regulates its progression</td>
<td>2 a-c</td>
</tr>
<tr>
<td>Define pharmaco-genetics</td>
<td>2 e</td>
</tr>
<tr>
<td>Mini-cure objectives</td>
<td></td>
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<tr>
<td>After this program, students will be able to:</td>
<td></td>
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<tr>
<td>Describe how biomedical research is performed</td>
<td>2 d</td>
</tr>
<tr>
<td>Explain how genetic screens can provide insight into cancer development and progression</td>
<td>2 f</td>
</tr>
<tr>
<td>Express interest in exploring training in distant university programs</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** CLO indicated by yellow background and MCO indicated by blue background.
Evaluation of the components of the Pharmaco-genetics module
Please respond to the following statements using the Likert scale:
1= Strongly disagree
2= Disagree
3= Neutral
4= Agree
5= Strongly agree

1. ____________ was effective as a means of teaching pharmaco-genetics
   Tuesday’s Lecture 1 2 3 4 5
   Online material 1 2 3 4 5
   Laboratory 1 2 3 4 5
   Thursday small group session and written assignment 1 2 3 4 5

2. ____________ provided useful information regarding a career in biological research
   Tuesday’s Lecture 1 2 3 4 5
   Laboratory 1 2 3 4 5
   Thursday small group session and written assignment 1 2 3 4 5
   Research seminar by … graduate student 1 2 3 4 5
   Informal interactions with a faculty member and graduate student from … 1 2 3 4 5

3. ____________ was a fair means of evaluating your learning
   Online quiz 1 2 3 4 5
   In class quiz on Tuesday 1 2 3 4 5
   Pharmaco-genetic interaction assignment 1 2 3 4 5

4. Rank the activities in order of usefulness (with 1 being the most useful)
   _______ Tuesday’s lecture
   _______ Laboratory
   _______ Thursday’s small group session
   _______ Research seminar by … graduate student
Pre-class Survey

Please respond to the following statements using the Likert scale:
1= Strongly disagree
2= Disagree
3= Neutral
4= Agree
5= Strongly agree

1. _______________ is a useful model system for understanding the human cancer
   a. Patient Data
   b. Human Cancer Cell Lines
   c. Other human or mammalian cell lines
   d. Mouse
   e. Drosophila (fruit flies)
   f. C. elegans (worms)
   g. Yeast

2. I have a good understanding of ________________:
   a. how cancer is a genetic disease
   b. how cancer develops
   c. what regulates cancer progression
   d. how biomedical research is performed
   e. what pharmaco-genetics means
   f. how genetic screens can provide insight how cancer develops and progresses

3. I am/will consider applying to the … for:
   a. Summer Undergraduate Research
   b. Medical School
   c. Other Professional Schools
   d. Graduate programs in Biological Sciences
   e. Other Graduate programs

4. I am interested in a career as a:
   a. Research Scientist
   b. Medical professional
   c. Other: ____________________________
Post-class Survey
Please respond to the following statements using the Likert scale:
1= Strongly disagree
2= Disagree
3= Neutral
4= Agree
5= Strongly agree

1. ___________ is a useful model system for understanding the human cancer
   a. Patient Data 1 2 3 4 5
   b. Human Cancer Cell Lines 1 2 3 4 5
   c. Other human or mammalian cell lines 1 2 3 4 5
   d. Mouse 1 2 3 4 5
   e. Drosophila (fruit flies) 1 2 3 4 5
   f. C. elegans (worms) 1 2 3 4 5
   g. Yeast 1 2 3 4 5

2. I have a good understanding of _____________:
   a. how cancer is a genetic disease 1 2 3 4 5
   b. how cancer develops 1 2 3 4 5
   c. what regulates cancer progression 1 2 3 4 5
   d. how biomedical research is Performed 1 2 3 4 5
   e. what pharmaco-genetics means 1 2 3 4 5
   f. how genetic screens can provide insight how cancer develops and progresses 1 2 3 4 5

3. I am/will consider applying to the … for:
   a. Summer Undergraduate Research 1 2 3 4 5
   b. Medical School 1 2 3 4 5
   c. Other Professional Schools 1 2 3 4 5
   d. Graduate programs in Biological Sciences 1 2 3 4 5
   e. Other Graduate programs 1 2 3 4 5

4. I am interested in a career as a:
   a. Research Scientist 1 2 3 4 5
   b. Medical professional 1 2 3 4 5
   c. Other: ___________________________ 1 2 3 4 5