Supplemental Resources:

Supplemental Table 1: Objectives and method of assessment.

Course learning objectives	**Assessment**	
After this program, students will be able to:	**Survey**	**Evaluation**
Describe cancer as a genetic disease, how it develops, and what regulates its progression	2 a-c	n/a
Define pharmaco-genetics	2 e	1
Mini-cure objectives	**Assessment**	
After this program, students will be able to:	**Survey**	**Evaluation**
Describe how biomedical research is performed	2 d	2
Explain how genetic screens can provide insight into cancer development and progression	2 f	n/a
Express interest in exploring training in distant university programs	3	n/a

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	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

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