# Cell-, Stem Cell and Developmental Biology 1BI037, 2021

Respondents: 50
Answer Count: 29
Answer Frequency: 58.00%

In my view, I have developed valuable expertise /skills during the course.

In my view, I have developed valuable expertise /skills during the course.	Number of responses
to a very small extent	0 (0.0%)
to a small extent	0 (0.0%)
to some extent	4 (13.8%)
to a large extent	5 (17.2%)
to a very large extent	20 (69.0%)
Total	29 (100.0%)
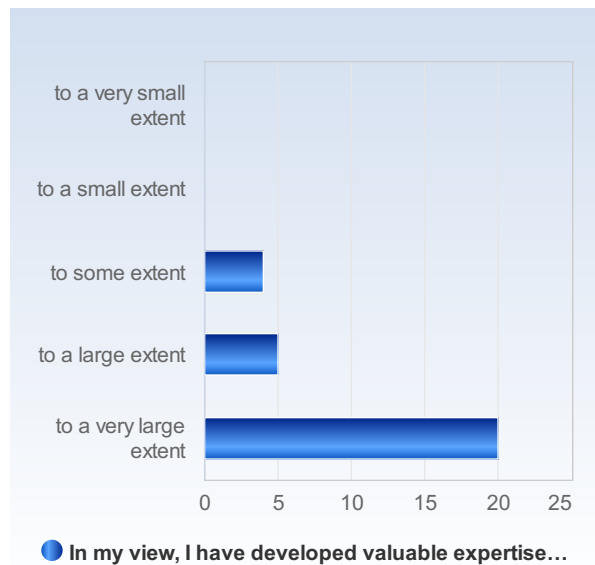
🔵 In my view, I have developed valuable expertise…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, I have developed valuable expertise/skills during the course.	4.6	0.7	16.2 %	3.0	4.0	5.0	5.0	5.0

In my view, I have achieved all the intended learning outcomes of the course.

In my view, I have achieved all the intended learning outcomes of the course.	Number of responses
to a very small extent	0 (0.0%)
to a small extent	0 (0.0%)
to some extent	3 (10.3%)
to a large extent	16 (55.2%)
to a very large extent	10 (34.5%)
Total	29 (100.0%)

● In my view, I have achieved all the intended lear…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, I have achieved all the intended learning outcomes of the course.	4.2	0.6	15.0 %	3.0	4.0	4.0	5.0	5.0

In my view, there was a common theme running throughout the course – from learning outcomes to examinations.

In my view, there was a common theme running throughout the course – from learning outcomes to examinations.	Number of responses
to a very small extent	0 (0.0%)
to a small extent	1 (3.4%)
to some extent	1 (3.4%)
to a large extent	13 (44.8%)
to a very large extent	14 (48.3%)
Total	29 (100.0%)
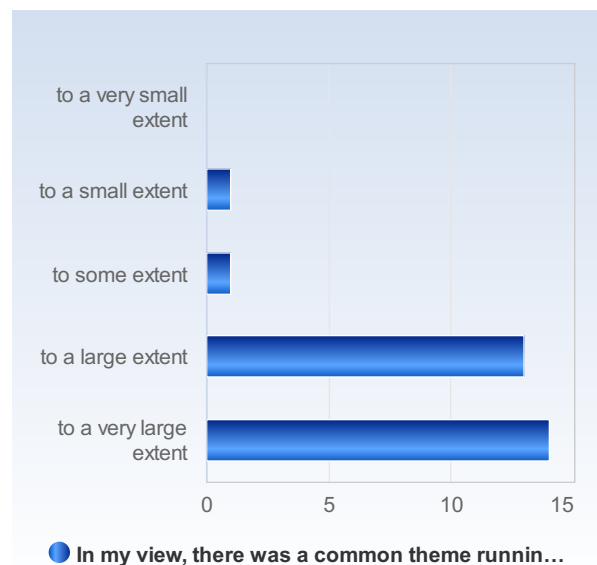
● In my view, there was a common theme runnin…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, there was a common theme running throughout the course – from learning outcomes to examinations.	4.4	0.7	16.6 %	2.0	4.0	4.0	5.0	5.0

In my view, the course has promoted a scientific way of thinking and reasoning (e.g. analytical and critical thinking, independent search for and evaluation of information).

| In my view, the course has promoted a scientific way of thinking and reasoning (e.g. analytical and critical thinking, independent search for and evaluation of information).	Number of responses
to a very small extent	0 (0.0%)
to a small extent	1 (3.4%)
to some extent	1 (3.4%)
to a large extent	6 (20.7%)
to a very large extent	21 (72.4%)
Total	29 (100.0%)
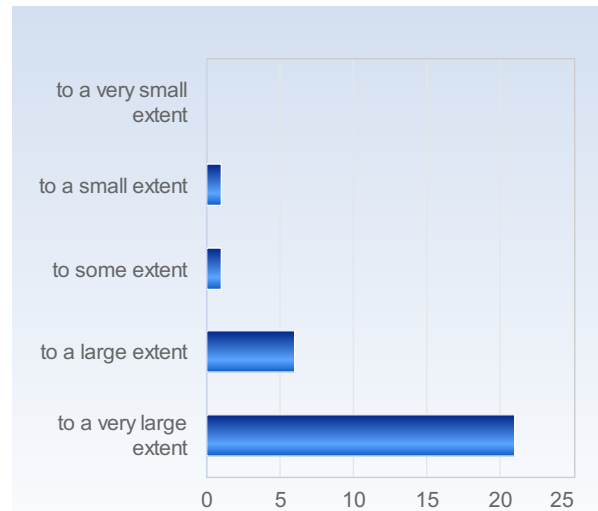
● In my view, the course has promoted a scientifi…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, the course has promoted a scientific way of thinking and reasoning (e.g. analytical and critical thinking, independent search for and evaluation of information).	4.6	0.7	15.7 %	2.0	4.0	5.0	5.0	5.0

In my view, during the course, the teachers have been open to ideas and opinions about the course's structure and content.

In my view, during the course, the teachers have been open to ideas and opinions about the course's structure and content.	Number of responses
to a very small extent	0 (0.0%)
to a small extent	1 (3.4%)
to some extent	1 (3.4%)
to a large extent	12 (41.4%)
to a very large extent	15 (51.7%)
Total	29 (100.0%)
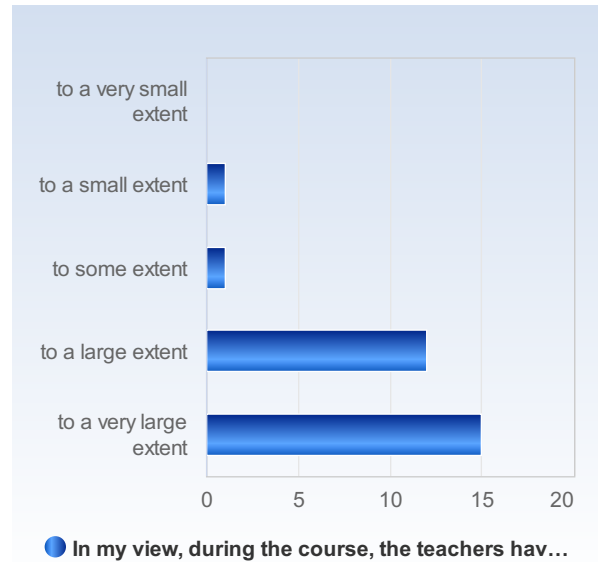
🔵 In my view, during the course, the teachers hav…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, during the course, the teachers have been open to ideas and opinions about the course's structure and content.	4.4	0.7	16.6 %	2.0	4.0	5.0	5.0	5.0

Have you during the course been subjected to negative discrimination or insults because of your gender, ethnic origin, religion, disability or sexual orientation? If the answer is yes, the programme advises you to contact the study advisor or the student ombudsman; see KI webpage for Contact information.

| Have you during the course been subjected to negative discrimination or insults because of your gender, ethnic origin, religion, disability or sexual orientation? If the answer is yes, the programme advises you to contact the study advisor or the student ombudsman; see KI webpage for Contact information.	Number of responses
Yes	0 (0.0%)
No	29 (100.0%)
Total	29 (100.0%)
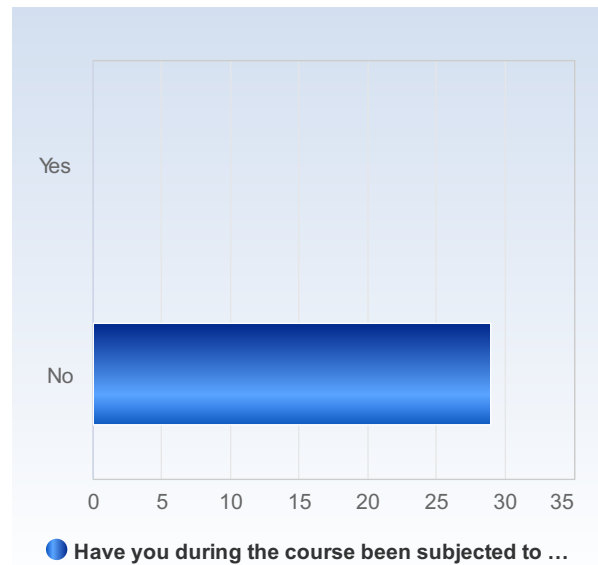
🔵 **Have you during the course been subjected to …**

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
Have you during the course been subjected to negative discrimination or insults because of your gender, ethnic origin, religion, disability or sexual orientation? If the answer is yes, the programme advises you to contact the study advisor or the student ombudsman; see KI webpage for Contact information.	2.0	0.0	0.0 %	2.0	2.0	2.0	2.0	2.0

What was the reason for the negative discrimination or insult?

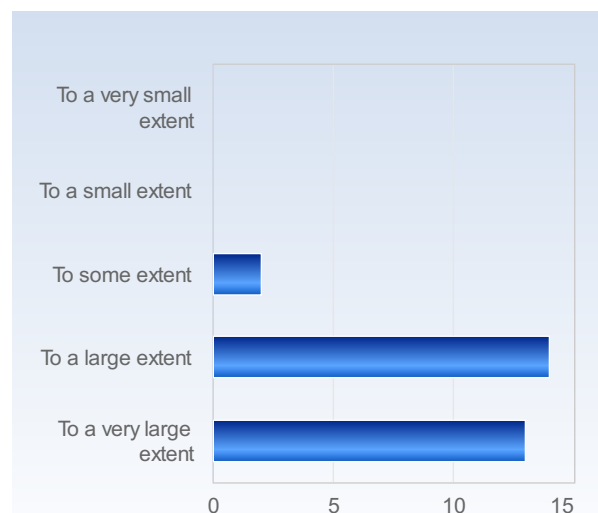| What was the reason for the negative discrimination or insult?	Number of responses
gender	0 (0.0%)
ethnic origin	0 (0.0%)
religion	0 (0.0%)
disability	0 (0.0%)
sexual orientation	0 (0.0%)
Total	0 (0.0%)
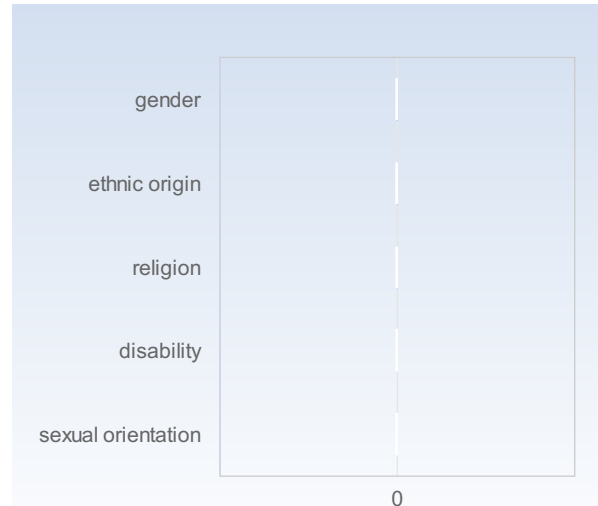
🔵 What was the reason for the negative discrimin…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
What was the reason for the negative discrimination or insult?	0.0	0.0	NaN %	∞	0.0	0.0	0.0	-∞

To what extent do you feel that the workload during the course was reasonable in relation to the extent of the course/number of credits awarded?

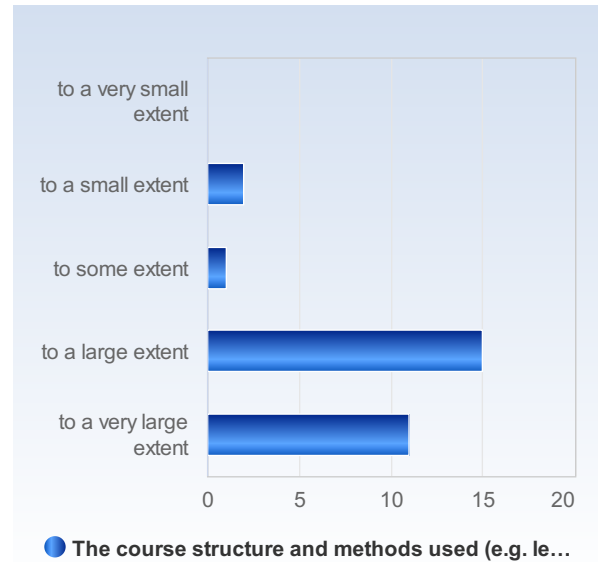| To what extent do you feel that the workload during the course was reasonable in relation to the extent of the course/number of credits awarded?	Number of responses
To a very small extent	0 (0.0%)
To a small extent	0 (0.0%)
To some extent	2 (6.9%)
To a large extent	14 (48.3%)
To a very large extent	13 (44.8%)
Total	29 (100.0%)

🔵 To what extent do you feel that the workload du…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
To what extent do you feel that the workload during the course was reasonable in relation to the extent of the course/number of credits awarded?	4.4	0.6	14.2 %	3.0	4.0	4.0	5.0	5.0

The course structure and methods used (e.g. lectures, exercises, seminars, assignments etc.) were relevant in relation to the learning outcomes.

The course structure and methods used (e.g. lectures, exercises, seminars, assignments etc.) were relevant in relation to the learning outcomes.	Number of responses
to a very small extent	0 (0.0%)
to a small extent	2 (6.9%)
to some extent	1 (3.4%)
to a large extent	15 (51.7%)
to a very large extent	11 (37.9%)
Total	29 (100.0%)

● The course structure and methods used (e.g. le…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The course structure and methods used (e.g. lectures, exercises, seminars, assignments etc.) were relevant in relation to the learning outcomes.	4.2	0.8	19.5 %	2.0	4.0	4.0	5.0	5.0

The examination was relevant in relation to the learning outcomes.

The examination was relevant in relation to the learning outcomes.	Number of responses
to a very small extent	0 (0.0%)
to a small extent	1 (3.4%)
to some extent	2 (6.9%)
to a large extent	11 (37.9%)
to a very large extent	15 (51.7%)
Total	29 (100.0%)
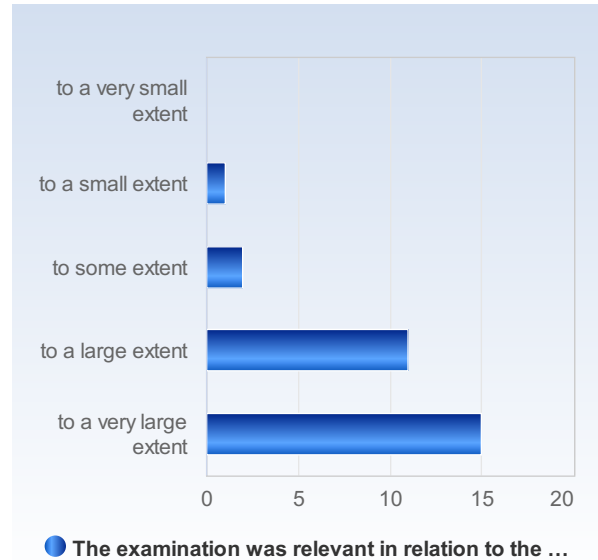
● The examination was relevant in relation to the …

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The examination was relevant in relation to the learning outcomes.	4.4	0.8	17.7 %	2.0	4.0	5.0	5.0	5.0

I took responsibility for my own learning during this course.

I took responsibility for my own learning during this course.	Number of responses
to a very small extent	0 (0.0%)
to a small extent	1 (3.4%)
to some extent	6 (20.7%)
to a large extent	9 (31.0%)
to a very large extent	13 (44.8%)
Total	29 (100.0%)

● I took responsibility for my own learning during…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
I took responsibility for my own learning during this course.	4.2	0.9	21.3 %	2.0	4.0	4.0	5.0	5.0

When/if I had questions or problems with the course content, I felt that I could turn to my teacher/supervisor for guidance.

When/if I had questions or problems with the course content, I felt that I could turn to my teacher/supervisor for guidance.	Number of responses
to a very small extent	1 (3.4%)
to a small extent	1 (3.4%)
to some extent	1 (3.4%)
to a large extent	6 (20.7%)
to a very large extent	20 (69.0%)
Total	29 (100.0%)

● When/if I had questions or problems with the c…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
When/if I had questions or problems with the course content, I felt that I could turn to my teacher/supervisor for guidance.	4.5	1.0	22.0 %	1.0	4.0	5.0	5.0	5.0

The feedback that I have received has been important for my development and learning.

The feedback that I have received has been important for my development and learning.	Number of responses
to a very small extent	1 (3.4%)
to a small extent	1 (3.4%)
to some extent	11 (37.9%)
to a large extent	9 (31.0%)
to a very large extent	7 (24.1%)
Total	29 (100.0%)

● The feedback that I have received has been im…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The feedback that I have received has been important for my development and learning.	3.7	1.0	27.2 %	1.0	3.0	4.0	4.0	5.0

What is your overall opinion of the course?

What is your overall opinion of the course?	Number of responses
very poor	0 (0.0%)
poor	0 (0.0%)
OK	1 (3.4%)
good	9 (31.0%)
very good	19 (65.5%)
Total	29 (100.0%)
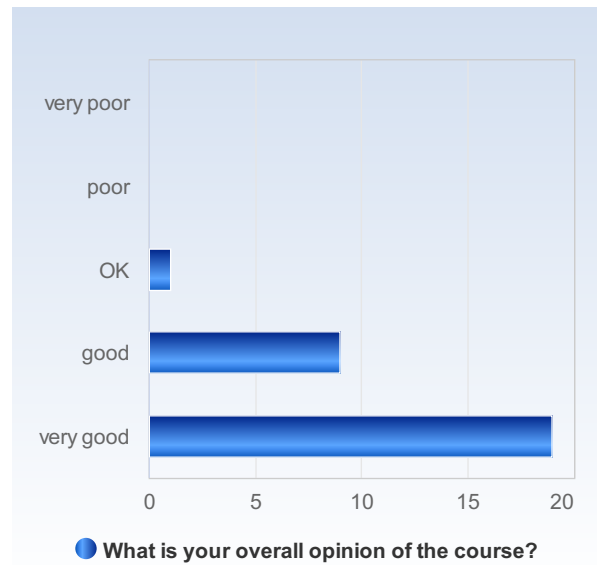
● **What is your overall opinion of the course?**

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
What is your overall opinion of the course?	4.6	0.6	12.2 %	3.0	4.0	5.0	5.0	5.0

Labster pilot, Questionnaire.

Do you think that virtual laboratory simulation is a reasonable way to study biomedicine?

Scale 1-5 stars (1 is no, not at all, 5 is absolutly, it is great) and open answer
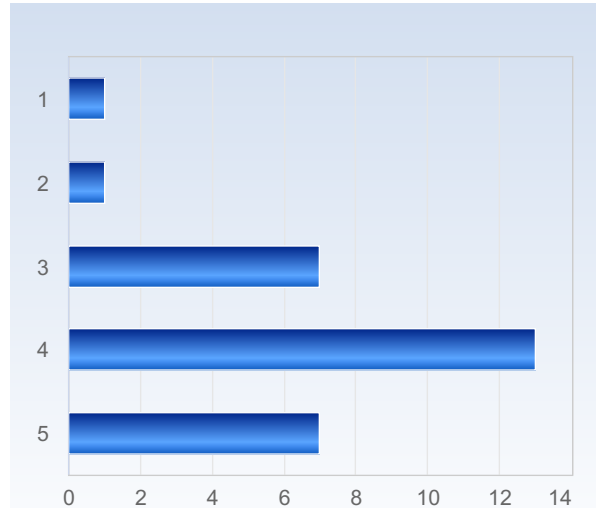
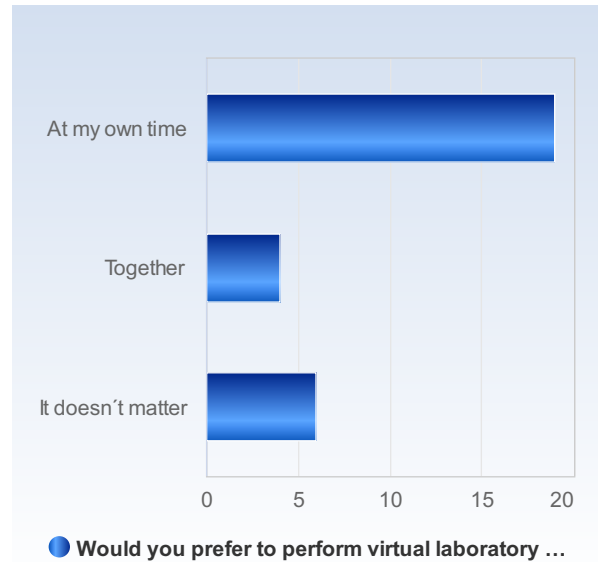| Do you think that virtual laboratory simulation is a reasonable way to study biomedicine? Scale 1-5 stars (1 is no, not at all, 5 is absolutly, it is great) and open answer	Number of responses
1	1 (3.4%)
2	1 (3.4%)
3	7 (24.1%)
4	13 (44.8%)
5	7 (24.1%)
Total	29 (100.0%)

irtual laboratory simulation i… Scale 1-5 stars (1 is no, not a

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
Do you think that virtual laboratory simulation is a reasonable way to study biomedicine? Scale 1-5 stars (1 is no, not at all, 5 is absolutly, it is great) and open answer	3.8	1.0	25.2 %	1.0	3.0	4.0	4.0	5.0

Would you prefer to perform virtual laboratory simulations at your own time alone or at classroom with other students and teacher?

Would you prefer to perform virtual laboratory simulations at your own time alone or at classroom with other students and teacher?	Number of responses
At my own time	19 (65.5%)
Together	4 (13.8%)
It doesn´t matter	6 (20.7%)
Total	29 (100.0%)

● Would you prefer to perform virtual laboratory …

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
Would you prefer to perform virtual laboratory simulations at your own time alone or at classroom with other students and teacher?	1.6	0.8	53.3 %	1.0	1.0	1.0	2.0	3.0

Would Labster simulation work better

| Would Labster simulation work better	Number of responses
Before the lecture (to orientate to the subject)	20 (69.0%)
After the lecture (to rehearse the subject)	9 (31.0%)
Total	29 (100.0%)
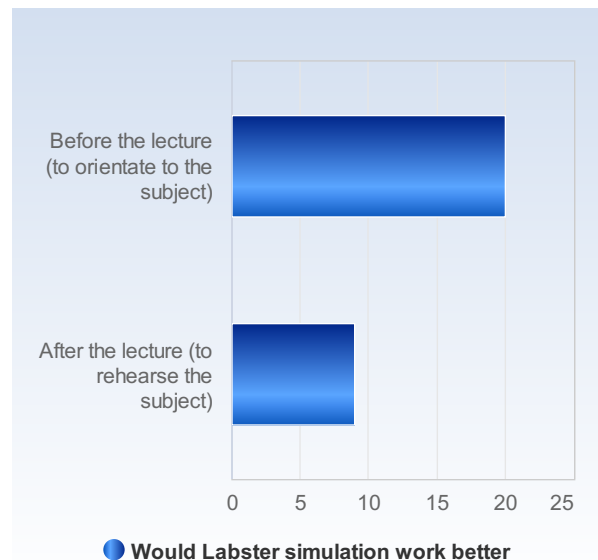
● Would Labster simulation work better

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
Would Labster simulation work better	1.3	0.5	35.9 %	1.0	1.0	1.0	2.0	2.0

Did the Labster simulation work technically?

If not, describe the problems

Did the Labster simulation work technically? If not, describe the problems	Number of responses
Yes	26 (89.7%)
No	3 (10.3%)
Total	29 (100.0%)
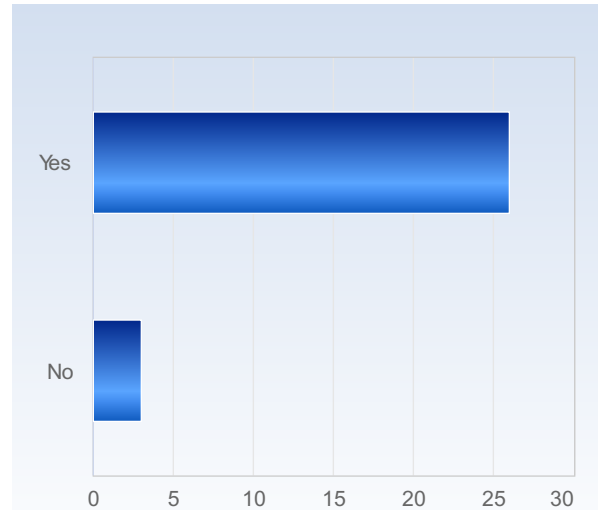
e Labster simulation work technically?If not, describe the p

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
Did the Labster simulation work technically? If not, describe the problems	1.1	0.3	28.1 %	1.0	1.0	1.0	1.0	2.0

![Karolinska Institutet logo]

Would you like to have more

Would you like to have more	Number of responses
Theory quizzes	5 (17.2%)
Practical lab work	7 (24.1%)
Animations	5 (17.2%)
Everything was well balanced	21 (72.4%)
Total	38 (131.0%)

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
Would you like to have more	3.1	1.1	36.5 %	1.0	2.0	4.0	4.0	4.0

Mandatory labster simulations:

The compulsory Labster simulations helped me to attain the intended learning outcomes of this course.

The compulsory Labster simulations helped me to attain the intended learning outcomes of this course.	Number of responses
Yes	25 (86.2%)
No	4 (13.8%)
Total	29 (100.0%)
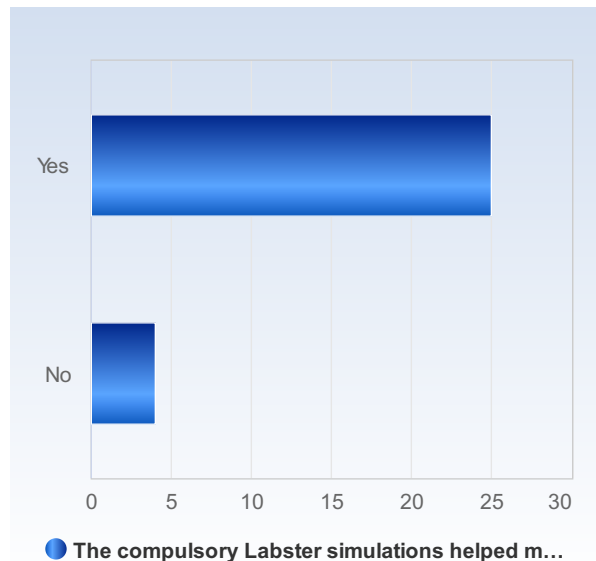
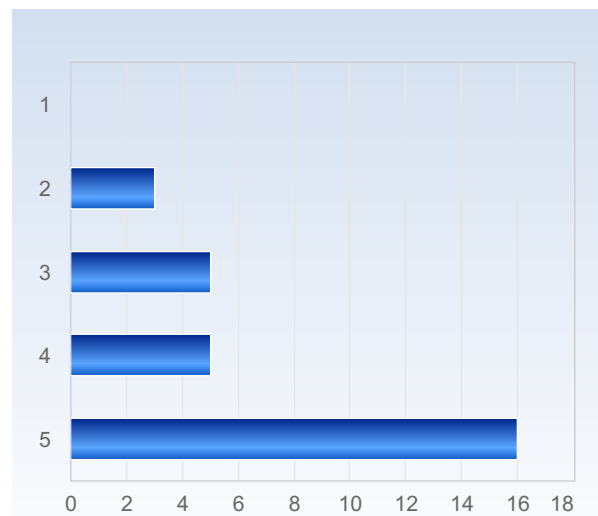|	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The compulsory Labster simulations helped me to attain the intended learning outcomes of this course.	1.1	0.4	30.8 %	1.0	1.0	1.0	1.0	2.0

The Labster simulations were relevant for the intended learning outcomes of this course.

Compulsory simulations - scale 1-5 stars

The Labster simulations were relevant for the intended learning outcomes of this course. Compulsory simulations - scale 1-5 stars	Number of responses
1	0 (0.0%)
2	3 (10.3%)
3	5 (17.2%)
4	5 (17.2%)
5	16 (55.2%)
Total	29 (100.0%)

mulations were relevant for the i… Compulsory simulations

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The Labster simulations were relevant for the intended learning outcomes of this course. Compulsory simulations - scale 1-5 stars	4.2	1.1	25.7 %	2.0	3.0	5.0	5.0	5.0

Elective labster simulations

The elective Labster simulations helped me to attain the intended learning outcomes of this course.

The elective Labster simulations helped me to attain the intended learning outcomes of this course.	Number of responses
Yes	23 (85.2%)
No	4 (14.8%)
Total	27 (100.0%)
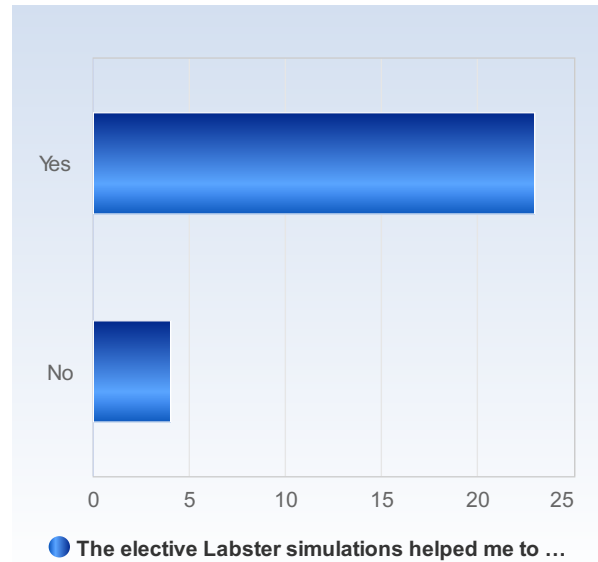
🔵 **The elective Labster simulations helped me to …**

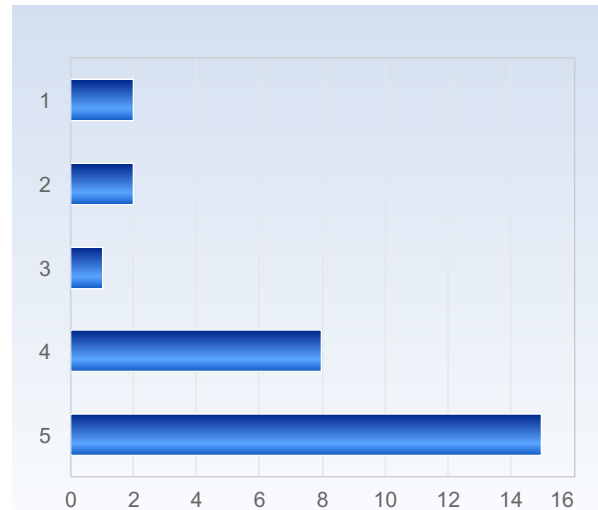|	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The elective Labster simulations helped me to attain the intended learning outcomes of this course.	1.1	0.4	31.5 %	1.0	1.0	1.0	1.0	2.0

The Labster simulations were relevant for the intended learning outcomes of this course.

Electives simulations - scale 1-5 stars

| The Labster simulations were relevant for the intended learning outcomes of this course. Electives simulations - scale 1-5 stars	Number of responses
1	2 (7.1%)
2	2 (7.1%)
3	1 (3.6%)
4	8 (28.6%)
5	15 (53.6%)
Total	28 (100.0%)

simulations were relevant for the i… Electives simulations

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The Labster simulations were relevant for the intended learning outcomes of this course. Electives simulations - scale 1-5 stars	4.1	1.2	29.9 %	1.0	4.0	5.0	5.0	5.0

The number of elective Labster simluations (5) was optimal.

The number of elective Labster simluations (5) was optimal.	Number of responses
Strongly disagree	0 (0.0%)
Disagree	3 (11.1%)
Agree	17 (63.0%)
Strongly agree	7 (25.9%)
Total	27 (100.0%)
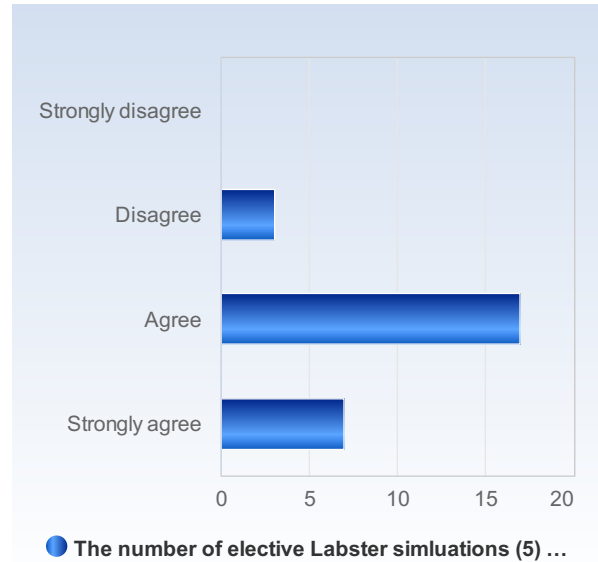
● The number of elective Labster simluations (5) …

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The number of elective Labster simluations (5) was optimal.	3.1	0.6	19.1 %	2.0	3.0	3.0	3.5	4.0