**EMNERAPPORT – INSTITUTT FOR BIOMEDISIN**

ANNUAL EVALUATION REPORT – DEPARTMENT OF BIOMEDICINE

| | | | |
|---|---|---|---|
| Emnekode:<br>*COURSE CODE:* | **BMED330** | Semester / år:<br>SEMESTER / *YEAR*: | **Spring semester 2023** |
| Emnenavn:<br>*COURSE NAME:* | *Cell Communication and Intracellular Signaling* | | |
| Emneansvarlig:<br>*COURSE COORDINATOR:* | **James Lorens** | Godkjent:<br>*APPROVED:*<br>(admin.) | Utdanningsleder IBM<br>23.05.2023 |
| Rapporteringsdato:<br>*DATE OF REPORT:* | 11.05.23 | | |

**INNLEDNING** / *INTRODUCTION*:

Kort beskrivelse av emnet, inkl. studieprogramtilhørighet. Kommentarer om evt. oppfølging av tidligere evalueringer.

*SHORT COURSE DESCRIPTION, INCLUDING WHICH STUDENTS/CANDIDATES MAY ATTEND. COMMENTS TO CHANGES BASED ON PRIOR EVALUATIONS.*

*Cell Communication and Intracellular Signaling* (10 ECTS) is a course available for students attending a Master's Programme, as well as PhD candidates and visiting students that meet the required previous knowledge in biology, molecular biology or equivalent.

The course objective is to provide students an understanding of the principles of cellular communication and cell signaling. The course runs over a period of 7 weeks, comprising 6-8 hours of mandatory lectures and student group presentations per week.

The Deadline for Semester Registration was 1 February. When the distribution list for the survey was downloaded the 16 February a total number of 14 students were registered as attendees for the course this semester;

- 11 Master students in Biomedical Sciences (MAMD-MEDBI),
- 1 Master student in Global Health (MAMD-GLOB), and
- 2 visiting/exchange students (INTL-MED) through an international agreement between their home institution and the Faculty of Medicine.

Four more Master students in Biomedical Sciences was registered as attendees later. One of the students withdraw from the exam in advance, and one more did not show up for the exam giving 16 as the total number of students attending the exam.

*Mitt UiB (*http://mitt.uib.no) is the Learning Management System (LMS) used by all courses at University of Bergen. The student can find Syllabus and information at the Course site, contact information and lecture notes (if given). All students have access to the course page at Mitt UiB as long as they are registered as attendees and/or for the exam.

For course descriptions, visit http://www.uib.no/en/course/BMED330

For previous reports, visit https://kvalitetsbasen.app.uib.no/popup.php?kode=BMED330

**The evaluation report for 2022 listed following changes planned for 2023:**

Planned changes for 2023 were implemented. The number of introductory lectures that cover fundamental principles and concepts was increased and the number of specialized topics reduced accordingly. The number of student article presentations remained unchanged.

**STATISTIKK** / *STATISTICS* (admin.)**:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Antall vurderingsmeldte studenter: *NUMBER OF CANDIDATES REGISTERED FOR EXAMINATION:* | | **17** | Antall studenter møtt til eksamen: *NUMBER OF CANDIDATES ATTENDED EXAMINATION:* | | | | **17** |
| Karakter-skala *GRADING SCALE* | *«A-F»* | **A:** | **B:** | **C:** | **D:** | **E:** | **F:** |
| | | **2** | **4** | **3** | **7** | **-** | **1** |

**KOMMENTARER TIL KARAKTERFORDELINGEN** / *COMMENTS TO THE STATISTICS*:

Emnerapporten utarbeides når sensuren etter ordinær eksamen i emnet er klar. For muntlige eksamener er da resultatfordelingen endelig, men for skriftlige eksamener kan endelig resultatfordeling avvike noe om evt. klagebehandling ikke er fullført.

*THIS REPORT IS PREPARED AFTER ORDINARY EXAMINATION. FOR ORAL EXAMS, THE RESULTS ARE FINAL, FOR WRITTEN EXAMS, THE FINAL GRADING DISTRIBUTION MAY DIFFER SLIGHTLY IF CANDIDATE COMPLAINTS/APPEALS HAVE NOT BEEN PROCESSED.*

**SAMMENDRAG AV STUDENTENE SINE TILBAKEMELDINGER** / *SUMMARY OF EVALUATIONS GIVEN BY THE STUDENTS*

Spørreundersøkelse via Mitt UiB, annen evaluering, tilbakemelding fra tillitsvalgte og/eller andre.

*COURSE EVALUATION ON MITT UIB, OTHER EVALUATIONS, RESPONSES FROM THE STUDENT REPRESENTATIVES AND/OR OTHERS.*

SurveyXact was used as the digital evaluation system. Exam questions comprised multiple choice (MCQ) and written answer questions.

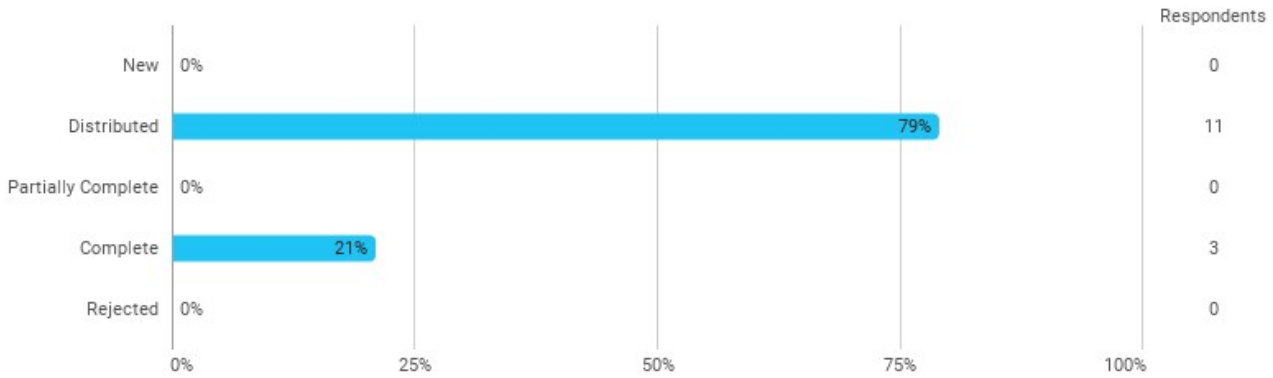
An anonymous survey was distributed by UiB email addresses on March 3 to the students (14) registered as attendees the 16 February. Reminder was sent the 13 and 15 March to those (resp. 14 and 13) that hadn't responded before.

The attendees were asked about the academic content, the organization and the educational level of the teaching, and asked to evaluate the total workload of the course. They were asked to give their responses about the lectures, what they appreciate – or found disappointing – about the course, and to evaluate the given review articles.

Finally came some questions regarding the exam and their learning outcomes.

When the survey closed the 17th of March, responses from only 3 (21 %) students was registered.

**OVERALL STATUS:**



RESULTS / STUDENT FEEDBACK:

- Presenters were knowledgeable of the information they were presenting.
- Most of the things about the course are good and useful. In my opinion, Due to limited time, the topics presented were a little much, which made preparing for the exam a little difficult.
- I liked that the lectures were taught by several professors, which are experts in the content they discuss.
- The lectures were done in a way that insinuated an expectation of knowledge of general functions of signaling mechanisms, rather than the specific degree covered by the exam. Ideally the lectures should highlight more which systems to study more intensely so that students can focus more on the intended learning outcome. This has improved somewhat when comparing to the 2022 exam but there is still room for improvement.
- There was no specific instruction on how to expand our skills on advanced scientific articles. Merely an assignment to read and understand them. Also the articles varied in complexity and weren't all "advanced".
- Provided a more in-depth view of how signals are received and how cells can act on them.
- Considering the subject of this course is really important for students, most things about this course are good and useful.
- I appreciate that the lecturers changed almost every week so that they are more or less specialized in the subject they were presenting.
- Low emphasis on signal origin/ how whole systems interact with each other beyond the HPA axis. The different signaling pathways felt like they were presented as separate entities that don't tie together.
- Sometime the time of preparation of the paper presentation was too short between the lecture and the presentation.

**EMNEANSVARLIG SIN EVALUERING OG VURDERING** / *EVALUATION AND COMMENTS BY COURSE COORDINATOR:*

Faglæreres vurderinger av emnet. *TEACHER COMMENTS.*

Eksempel: Kommentarer om praktisk gjennomføring, undervisnings- og vurderingsformer, evt. endringer underveis, studieinformasjon på nett og Mitt UiB, litteraturtilgang, samt lokaler og utstyr.

*EXAMPLE: COMMENTS ABOUT PRACTICAL IMPLEMENTATION, TEACHING AND ASSESSMENT METHODS, IF NECESSARY. FUTURE CHANGES/CHANGES IN PROGRESS, STUDY INFORMATION ON THE INTERNET AND MITT UIB, LITERATURE ACCESS, LOCALES AND EQUIPMENT.*

Overall the students were positive regarding the course content and presentation. The inclusion of more fundamental lectures at the beginning served to improve understanding of the later specialized topics.

The students requested more training in research presentation. This is outside the scope of this course but indeed an essential skill.

The variation in the number of students enrolled from year to year presents a significant organization challenge; a minimum number of students is required to ensure presentation of the research article. This was problematic with the 12 students that actively participated. A minimum enrollemnet should be considered.

**MÅL FOR NESTE UNDERVISNINGSPERIODE – FORBEDRINGSTILTAK** / *PLANNED CHANGES FOR THE NEXT TEACHING PERIOD – HOW TO BE BETTER:*

Coordination with other courses to ensure that students receive training in scientific presentation. If the number of MS students decreases (e.g. due to the new tuition rules) may require merging this course in some form with other BMED courses.

**FS – resultatfordeling (graf) /** FS – DISTRIBUTION OF GRADING (GRAPH):



**FS580.001 Distribution of results**

Exam: BMED330 0 Alle 2023 VÅR
Cell Communication and Intracellular Signaling - Alle vurderingskombinasjoner 10,0sp
Grading scale: Letter grades
-

| | Total | |
|---|---|---|
| Number of candidates (registered): | 17 | |
| Number appearing at the examination: | 17 | |
| Number of passes: | 16 | |
| Number of failures: | 1 | 6% |
| Number of withdrawals during examination | 0 | |
| Mean grade: | C | |
| Number presenting medical certificates: | 0 | |
| Number of withdrawals before examination | 0 | |

| Grade | Number |
|---|---|
| E | 0 |
| D | 7 |
| C | 3 |
| B | 4 |
| A | 2 |