University of Gdańsk

Subject card

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| Subject name and code | Seminar II - Experimental publications in molecular biology and biotechnology 2, PG_00197325 | | | | | | |
| Field of study | Biotechnology | | | | | | |
| Date of commencement of studies | October 2026 | | Academic year of realisation of subject | | 2026/2027 | | |
| Education level | Master's studies | | Subject group | | Obligatory subject group in the field of study<br>Optional subject group<br>Subject group related to scientific research in the field of study | | |
| Mode of study | full-time studies | | Mode of delivery | | at the university | | |
| Year of study | 1 | | Language of instruction | | Polish | | |
| Semester of study | 2 | | ECTS credits | | 3.0 | | |
| Learning profile | academic | | Assessment form | | credit | | |
| Conducting unit | Intercollegiate Faculty of Biotechnology UG-MUG -> Rector | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr hab. Andrea Lipińska | | | | |
| | Teachers | | | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 0.0 | 0.0 | 0.0 | 0.0 | 30.0 | 30 |
| | E-learning hours included: 0.0 | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | | Participation in consultation hours | | Self-study | SUM |
| | Number of study hours | 30 | | 5.0 | | 40.0 | 75 |
| Subject objectives | Depending on the specific series of publications under discussion, seminar participants should have factual and methodological knowledge of the specific research question. Seminar participants should be able to discuss the results of published research based on reading the text of the publication and presenting the results in the form of figures and tables. They should be able to briefly and logically present the results of individual experiments. They should be able to critically discuss published results and ask questions about their significance. | | | | | | |

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [BIOTECHMU2_U05] The graduate has proficient knowledge of English to understand statements and read and understand literature and scientific studies in the fields of science and scientific disciplines relevant to biotechnology; is able to prepare a written study and an oral presentation in English. | The student uses specialized English terminology relevant to biotechnology and medical sciences when discussing scientific publications. Prepares and delivers an oral presentation in English on a scientific publication in the field of biotechnology, presenting the main assumptions, methods, and results of the research. | [SU2] presentation/project/paper/ report |
| [BIOTECHMU2_U07] The graduate is able to prepare and present in Polish and/or English an oral presentation covering detailed issues in the field of biotechnology using scientific language, including specialist terminology and conceptual apparatus; conduct discussions. | The student formulates and presents scientific content in Polish and/or English, using correct professional terminology and conceptual apparatus specific to biotechnology. The student engages in a scientific discussion of the presented research, formulating questions, arguments, and comments regarding the methodology and interpretation of results. | [SU1] oral statement/conversation/ discussion<br>[SU2] presentation/project/paper/ report |
| [BIOTECHMU2_U06] The graduate is able to prepare, in a targeted manner in Polish and / or English, a written study, a scientific publication in the field of biotechnology using scientific language, including specialist terminology and conceptual apparatus. | The student prepares and presents a seminar presentation on an experimental publication in the field of biotechnology and medical sciences, maintaining the structure typical of scientific presentations. Uses the conceptual framework of biotechnology and medical sciences when presenting and discussing scientific publications. | [SU3] text preparation/written work |
| [BIOTECHMU2_U04] The graduate possesses the ability to proficiently use scientific information, including English, regarding biotechnology; critically analyses and selects information; uses electronic sources; has the ability to use appropriate databases. | The student characterizes and interprets the research objectives, experimental methods used and the obtained results described in publications in the field of biotechnology, critically analyzes experimental data presented in scientific publications (e.g. graphs, tables, methodological diagrams) and formulates conclusions regarding the significance of the research. | [SU2] presentation/project/paper/ report |

**Subject contents**

The publications discussed in the seminar concern contemporary biomedical research conducted using molecular, biochemical, biophysical and genetic techniques. The publications discussed represent a logical sequence of research on a particular problem. They include both the 'classic' papers, which initiated a particular line of research, and contemporary publications showing which research techniques are used today. The topics covered in the classes depend on the scientific interests and research undertaken by the teacher.

**Prerequisites and co-requisites**

**Assessment methods and criteria**

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| Activity in class | 51.0% | 20.0% |
| Presentation | 51.0% | 80.0% |

**Recommended reading**

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|---|---|
| Basic literature | The instructor prepares a list of about 10 publications and makes them available to the students in the first class. At the same time, students are provided with a bibliography of available review articles, which they are expected to obtain and read on their own in order to familiarise themselves with the broader context of the research discussed in the seminar. The instructor encourages the students to carry out their own bibliographic searches by providing them with keywords related to the topics discussed in the seminar. |
| Supplementary literature | None |
| eResources addresses | |

**Example issues/ example questions/ tasks being completed**

**Work placement**

Not applicable