| 科目ナン  | バリン                                  | グ U-I | LAS14 200              | )67 LE68        |     |                      |     |      |      |                                   |   |                           |  |
|---|--------------------------------------|-------|------------------------|-----------------|-----|----------------------|-----|------|------|-----------------------------------|---|---------------------------|--|
| 授業科目:<br><英訳>   |                                      |       | nology-E2<br>nology-E2 |                 |     | 担当者所属<br>職名・氏名<br>農学 |     | 学研究  | 科    | 特定准教授 \\\\\\\                     |   | LNOR MOHAMMED SERAG ALNOR |  |
| 群   | 自然科学科目群                              |       |                        | 分野 <b>(</b> 分類) | 生物  | 学(各論                 | i)  |      |      | 使用言語                              | 語 |                           |  |
| 旧群  | B群                                   | 単位数   | 2単位                    | 週コマ数            | 117 | 7                    | 授業  | 形態   | 講義   | 轰(対面授業科目)<br>———————————————————— |   |                           |  |
| 開講年度・<br>開講期  | 2024 •                               | 後期    | 曜時限 フ                  | <b>&lt;</b> 3   |     | 配当                   | 当学年 | 主として | 1·2⊡ | 生 対象学                             | 生 | 理系向                       |  |
| [授業の概要・目的]  |                                      |       |                        |                 |     |                      |     |      |      |                                   |   |                           |  |
| Purpose<br>The course will deal with the basic principles and selected applications of biotechnology for plants/<br>agricultural crops, emphasizing the need for a different type of agricultural, in order to support the increasing<br>needs for food (quantity and quality) facing climatic changes as well as increased abiotic and biotic stress<br>conditions. The basic aspects of the major biotechnological tools and solutions will also be discussed.<br>[到達目標]                      |                                      |       |                        |                 |     |                      |     |      |      |                                   |   |                           |  |
| <ol> <li>Gain a deeper understanding of major basic biotechnologies related to agricultural production.</li> <li>Explain the major practical biotechnologies aimed at solving agriculture and food production problems.</li> <li>Evaluate the achieved progress, the possible risks and future needs of agricultural biotechnologies.</li> <li>Be familiar with the ecological, sociological and ethical issues associated with genetically-modified (GM) plants and their products.</li> </ol> |                                      |       |                        |                 |     |                      |     |      |      |                                   |   |                           |  |
| [授業計画と内容]   |                                      |       |                        |                 |     |                      |     |      |      |                                   |   |                           |  |
|   |                                      |       |                        |                 |     |                      |     |      |      |                                   |   |                           |  |
|   | ------------------------------------ |       |                        |                 |     |                      |     |      |      |                                   |   |                           |  |

## Plant Biotechnology-E2(2)

## [履修要件]

English proficiency sufficient for understanding lectures, reading articles and texts, and participating in class discussions. A knowledge of high school biology and chemistry is also required.

## [成績評価の方法・観点]

Grading: Class attendance and active participation (20%), assignments and quizzes (30%), and final exam or coursework (50%)

[教科書]

未定

Introduced during class

[参考書等]

## (参考書)

Handouts and supplemental readings will be distributed electronically and/or as a hard copy in class

[授業外学修(予習・復習)等]

Students should read or listen to the required pre-class materials and submit any required assignment before the class, and come to class ready to participate in class activities.

[その他(オフィスアワー等)]

No fixed office hours. Students are requested to make appointments directly or by email.