IMPLANTEUS
SUSTAINABLE MEDITERRANEAN AGRICULTURE FOR HEALTH | GRADUATE SCHOOL

MAFEN MASTER **Academic Year 2025 - 2026**

Proposal of M1 tutored project

PROJECT TITLE AND SUMMARY:

Stress priming and epigenetic memory across species

This review examines how organisms—from plants to animals—retain memory of past stress events through epigenetic modifications. Students will explore mechanisms such as DNA methylation, histone modifications, and non-coding RNAs that contribute to stress priming and transgenerational resilience. The project emphasizes evolutionary conservation and the potential for biotechnological applications in agriculture and medicine.

HOST UNIT:

UPRI: ERIT PSII – Plant Science, Interactions and Innovation, Avignon Université

MAIN ACTIVITIES:

- **Literature Search:** Students will learn how to search for scientific articles using databases like PubMed, Scopus, or Google Scholar. They will collect recent and relevant publications related to their topic.
- **Reading and Analysis:** They will read and summarize key findings from selected articles, focusing on concepts, methods, and results that relate to their topic.
- **Structuring the Review:** Students will organize the information into sections (e.g., introduction, current knowledge, gaps, future directions) and learn how to build a coherent scientific narrative.
- **Scientific Writing:** They will practice writing in a formal and clear scientific style, using proper citations and formatting.
- **Feedback and Revision:** Drafts will be reviewed by the tutor, and students will revise their work based on feedback to improve clarity, accuracy, and structure.
- **Oral Presentation:** The students will prepare and deliver a short oral presentation of their mini-review, summarizing the key points and explaining the relevance of their topic. This helps develop communication skills and confidence in presenting scientific work.
- **Final Submission:** The goal is to produce a complete and well-written mini-review that could be submitted for publication or used as a reference for future research.

Students will have the opportunity to observe the real-life application of UV-C light in greenhouse conditions, gaining firsthand insight into an innovative biostimulation method. This experience will help them understand how modern research approaches are implemented and how their project can contribute meaningful knowledge to the field of plant resilience and defense to stress.

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