



**Science and Technologies for the Earth and Environment (STAT)**

**Curriculum: Biology Applied to Agriculture and the Environment (COD 8253)**

**Curricula:**

**Earth Sciences (COD 9948)**

**Biology Applied to Agriculture and Environment (COD 9947)**

Title of the project

(Roman number) CYCLE

**PhD student: Name** **Tutor: Prof./Dr. Name**

**1st Project presentation; kickoff meeting**

**The PhD plan should not exceed 10 pages (font Fire Sans, 12 point font size, 20 mm margins on all sides) excluding front page, list of references and Activities carried out and CFU acquired chapter)**

1. **Project summary**
2. Short summary describing key justifications, methodology, and expected outcomes of the PhD study. A broad audience should be able to understand the summary.
3. **State of the art of the thesis topic**
4. Provide the preliminary background information to frame your study in a general context, i.e., the state of the art of the thesis topic based on an updated literature review.
5. **Research open issues and objectives**

Briefly report the context of the research, its justification and the questions the research intends to answer.

1. **Materials and methods**

Planned research methodology: materials and methods to be applied, possible criteria of selection of study sites, selected experimental areas, scheduled field and/or laboratory activities, possible collaborations, etc.

1. **Expected results and impact**

Briefly describe the short- and long-term results expected from the project

1. **Goals for the next year**

Indicate what you plan to do/hope to do next year

1. **References**
2. All citations in the text should refer to:
3. 1. Single author: the author's name (without initials, unless there is ambiguity) and the publication year
4. 2. Two authors: both authors' names separated by ‘and’ and the publication year
5. 3. Three or more authors: first author's name followed by 'et al.' and the publication year
6. Citations may be made directly (or parenthetically).
7. Groups of references can be listed either first alphabetically, then chronologically, or vice versa.
8. Examples: 'as demonstrated (Briguglio and Scambelluri, 1999; Scambelluri, 2000a, 2000b, 1999)’ or, ‘as demonstrated (Giordani et al., 1999; Mariotti, 2000)…’ or ‘Carpaneto et al. (2010) recently suggested …'
9. In the References
10. List: References should be arranged first alphabetically and then further sorted chronologically if necessary. More than one reference from the same author(s) in the same year must be identified by the letters 'a', 'b', 'c', etc., placed after the year of publication.

Examples:

Reference to a journal publication:

Bosci T, Allen JM, Bellemare J, Kartesz J, Nishino M, Bradley BA. 2016. Plants’ native distributions do not reflect climatic tolerance. Diversity and Distributions 22: 615–624. https://doi.org/10.1111/ddi.12432

Reference to a journal publication with an article number:

Gilani SJ, Bin Jumah MN, Fatima F, Al-Abbasi FA, Afzal M, Alzarea SI, Sayyed N, Nadeem MS, Kazmi I. 2024. Hibiscetin attenuates lipopolysaccharide-evoked memory impairment by inhibiting BDNF/caspase-3/NF-κB pathway in rodents. PeerJ 12:e16795 https://doi.org/10.7717/peerj.16795

Reference to a book:

Conti F, Manzi A, Pedrotti F. 1992. Libro Rosso delle Piante Italiane. TIPAR, Roma.

Reference to a chapter in an edited book:

Fratianni S, Acquaotta F. 2017. The climate of Italy. In: Soldati M, Marchetti M. (Eds.), Landscapes and Landforms of Italy, 1s edn. Springer International Publishing, Swiss, pp 29–30. https://doi.org/10.1007/978-3-319-26194-2\_4.

Reference to a website:

APSnet: plant pathology online. St Paul (MN): American Phytopathological Association: 1994-2005 [accessed 2005 Jun 20]. http://www.apsnet.org/.

Reference to a dataset:

Karger DN, Conrad O, Böhner J, Kawohl T, Kreft H, Soria-Auza RW, Zimmermann NE, Linder HP, Kessler M. 2017. Data from: climatologies at high resolution for the earth’s land surface areas. Dryad Digital Repository. https://doi.org/10.5061/dryad.kd1d4

Reference to software:

R Core Team 2019. R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing, Vienna, Austria. <https://www.R-project.org/>

Thorsten P. 2022. PMCMRplus: Calculate Pairwise Multiple Comparisons of Mean Rank Sums Extended. R package version 1.9.4. [https://CRAN.R-project.org/package=PMCMRplus](https://CRAN.R-project.org/package%3DPMCMRplus)

Dissertations and Theses

Macri' CN. 2020. Adaptations of plant species to environmental changes. Doctoral thesis, Università degli studi di Genova. https://iris.unige.it/retrieve/e268c4cc-08e4-a6b7-e053-3a05fe0adea1/phdunige\_337513.pdf

1. **Gant chart**

|  |  |  |  |
| --- | --- | --- | --- |
| Year Quarters | Year 1 | Year 2 | Year 3 |
|  | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Activities |  |  |  |  |  |  |  |  |  |  |  |  |
| Task 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtask 1.1 |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtask 1.2 |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtask 1.3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Task 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtask 2.1 |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtask 2.2 |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtask 2.3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Task 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtask 3.1 |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtask 3.2 |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtask 3.3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Task n |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtask n.1 |  |  |  |  |  |  |  |  |  |  |  |  |
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Examples of task: data collection, data analysis, formulate research strategies and sampling design, write first draft, writing thesis

1. **Planned training activities out and expected CFU**

PhD Course in Science and Technology for Earth and Environment

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| --- | --- | --- |
| Period | Course title | CFU/ECTS |
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The PhD student plans to participate in n1 seminars for a total of n2 CFUs/ECTS, and to participate in n3 summer or winter schools, advanced training courses and workshops for a total of n4 CFUs/ECTS, and to participate in n5 scientific meetings and conferences for a total of n6 CFUs/ECTS.

1. **P lanned research activities out and expected CFU**

Mobility for research periods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Country and city | Host institution | Referent | Tentative period | Expected CFUs |
|  |  |  |  |  |
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|  |  |  |  |  |

The PhD student plans to publish n1 articles for a total of n2 CFUs/ECTS and to present his/her job in n3 scientific meetings or conferences for a total of n4 CFUs/ECTS.

Additional activities

(if any)

Genova, October 14th, 2024

Signature of the student Signature of the supervisor