DOKTOREGO PRESTAKUNTZA JARDUERA -2019-

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| Jardueraren izena | |
| **Basic observational and manipulative experiments in Biology with R**  **Hizlaria: Dr G. García-Baquero** | |
| Jarduera proposatzen duten doktorego programak | |
| 1. *Biodibertsitate, eta Ekosistemen Funtzionamendu eta Kudeaketa* | |
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| Proposatutako jardueraren deskribapena | |
| 40 orduko Ikastaroa.  Observational experiments (surveys) and manipulative experiments (experiments *s. str.*) are used in biological research to uncover associations and causal relationships between properties and events. However, identifying, applying, validating, interpreting and using a correct statistical model for each type of experiment may not be obvious. Default software settings and the presence of autocorrelation may lead to hidden traps for the unwary and, as a consequence, much effort may be wasted. The course is a practical introduction for Ph.D. students to the use of basic types of linear models of the reality and focuses on application, but brief theoretical introductions will be provided. | |
| Egutegia | |
| Unit 1: Introduction and review of basic probability and statistical inference. Ekainak 10  Unit 2: Observing: simple, stratified and multistage sampling. Association. Ekainak 11-12  Unit 3: Manipulating I: completely randomized and randomized block designs. Ekainak 13-14  Unit 4: Manipulating II: the classic split-plot design and the repeated measures designs. Ekainak 17-18  Unit 5: Modelling causality: causal diagrams, structural equations and mediation. Ekainak 19-20  Course wrap up. Ekainak 21 | |
| Irakaslekua | |
| Liburutegi Nagusiko 6A aretoa | |