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*SPECIAL ARTICLE*

### **Title of the article (Calibri 14pt, centered, bold, except scientific names. For studies on plants include Family, for studies on animals (Order: Family). Must be concise, easy to understand, and strictly related to what is presented in the article (15 words maximum).**

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**Example:**

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| **ABSTRACT.** Calibri, 9pt, justified. The text will include the main objectives of the research, scope, methodology employed, main results and conclusions. The abstract must be clear, coherent and concise, for which it is suggested to review and verify data, syntax, spelling, do not include equations, figures, tables, or bibliographic references. It must accurately reflect the content of the article. It must be written in first person. It should be only one paragraph of 300-500 words  **Example:**  **ABSTRACT**. **Introduction:** Some introduced plant species changed Costa Rican history since the sixteenth century. Of those, many have become our most socio-economically and environmentally influential crop species, others became naturalized and some turned invasive, and in recent years new species are still being intentionally or unintentionally introduced. **Objective:** The aim of this work was to register as many as possible of the known alien species of seed plants in Costa Rica, to establish their origin, adding natural history data, and uses in this country. **Results:** There are 144 families, 623 genera and ca. 982 species according to this study. The 29 most diverse families (each one with 10 or more species) comprehend 60% of genera and 62% of alien plant species in this country, but these families represent only 20% of the total number of families with alien genera and species in Costa Rica, whereas 57% of all such families have fewer than 5 introduced species each. Fabaceae in a broad sense not only possesses the greatest numbers of genera (46) and species (70), but also it almost duplicates the figures of the second family Poaceae (with 27 and 39, respectively), meanwhile this last family has the same number of alien species as the third one Lamiaceae. **Discussion:** Six of the most diverse families of the Costa Rican native flora (Asteraceae, Euphorbiaceae, Fabaceae, Orchidaceae, Poaceae, and Rubiaceae) are at the same time groups with many alien, cultivated and naturalized species in this country, but the most diverse native family, Orchidaceae is number 27 in part due to the troublesome quantification of hybrids.  **Keywords:** Calibri, 9pt, left aligned, lowercase and separated by commas, must include 5-7 words that describe the topic and that are not in the title, nor in the abstract. | **RESUMEN.** Calibri, 9pt, justified. Include the title of the article in Spanish in between quotation marks “”. Follow the same structure, format and length as the abstract. It helps to identify the main topics or aspects of the article and is important for indexing in bibliographic databases.  **Ejemplo:**  **RESUMEN.** “Origen, historia natural y usos de las plantas introducidas en Costa Rica”. **Introducción:** Algunas especies de plantas introducidas cambiaron la historia de Costa Rica desde el siglo XVI. Muchas se convirtieron en los cultivos socioeconómica y ambientalmente más impactantes de este país; otras se naturalizaron, algunas se volvieron invasoras y en años recientes nuevas especies todavía siguen llegando como inmigrantes, o son introducidas intencionalmente. **Objetivo:** El objetivo de este trabajo fue registrar el mayor número posible de plantasseminíferas alóctonas de Costa Rica, establecer su origen y aportar datos sobre historia natural y usos en este país. **Resultados:** Se trata de 144 familias, 623 géneros y ca. 982 especies. Las 29 familias con mayores números de especies alóctonas (cada una con 10 o más especies) abarcan el 60% de los géneros y 62% de tales especies en este país, pero estas familias representan solamente el 20% del total de familias con géneros y especies introducidos en Costa Rica, mientras que 57% de todas esas familias poseen cada una menos de 5 especies introducidas. Fabaceae en sentido amplio no solamente posee los mayores números de géneros (46) y especies (70), sino que, además, casi duplica las cifras de la segunda familia, Poaceae (con 27 y 39, respectivamente), mientras que esta familia registra el mismo número de especies de la tercera, Lamiaceae. **Discusión:** Seis de las familias más diversas de la flora nativa de Costa Rica (Asteraceae, Euphorbiaceae, Fabaceae, Orchidaceae, Poaceae y Rubiaceae) también son grupos con abundantes especies alóctonas cultivadas y naturalizadas en este país, pero Orchidaceae, la más diversa de las familias nativas, aquí es la 27, en parte debido a la dificultad de cuantificar híbridos.  **Palabras clave:** Calibri, 9pt, left aligned, lowercase and separated by commas, must include 5-7 words in Spanish that describe the topic and that are not in the title, nor in the abstract. |

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We recommend following the sequence: **INTRODUCTION** (which closes with the objective), **MATERIALS AND METHODS**, **RESULTS** and **DISCUSSION**. These subtitles are written in uppercase, bold and do not end with any punctuation. Do not include a Conclusions section, these are written very briefly as the final paragraph of the discussion. Remember to follow the citation guidelines of APA 7 within the text and in the **REFERENCES** section.

Make a clear statement of the problem, based on the relevant literature; specifically indicate the place; duration of study; sample size; methods and results; in the discussion compare your results with those already published in the literature (if your results are unexpected, analyze possible causes), and close with a concluding paragraph. In addition, you can attach photographs that illustrate your study.

**MATERIALS AND METHODS**

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This section should be thoroughly enough and provide details to allow the work to be repeated by others. However, only truly new procedures should be described in detail, previously published procedures should be cited, and important modifications to previously published procedures should be briefly mentioned.

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The discussion should analyze the results in relation to the hypotheses formulated in the introduction and the location of the study in the context of other publications or research.

**ACKNOWLEDGMENTS**

In this part of the article the author acknowledges the people or institutions that helped him or her during the research. Scholarships and institutions that finance the research are cited.

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**ETHICS, CONFLICT OF INTEREST, AND FUNDING STATEMENT**

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The statement of each author’s contribution to the manuscript is as follows: J.G.A.R. and M.C.C.: Study design, data collection and analysis. V.P.M.: Data collection. All co-authors: preparation and final approval of the manuscript.

**REFERENCES**

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**EXAMPLES**

**Journal Article**

Author, A., Author, B. & Author, C. (2019). *Title of Article. Periodical Title*, *Volume*(Issue), page range. https://doi.org/xx.xxxxxxxxxx.

**Note:** In Periodical Title and Volume use *italic type*.

Horn, S. P., Johanson, E. N., Haberyan, K. A., Boehm, M. S., Johanson, J. L., Sánchez P., M., & Hernández V., M. (2018). Initial limnological observations at five small lakes in southern Pacific Costa Rica. *UNED Research Journal*, *10*(1), 119-134. https://doi.org/10.22458/urj.v10i1.2015

**Book**

Author(s) Last name, Name initials. (Year). *Title of book*. Publication City: Publisher.

Sapolsky, R. M. (2017). *Behave: The biology of humans at our best and worst*. Penguin Books.

**Chapter in an edited book**

Author, A. (Year). Title of Chapter. In E.E. Editor (Ed.), *Title of Book* (xx ed., Vol. xx, pp. xxx–xxx). Publisher.

Dillard, J. P. (2020). Currents in the study of persuasion. In M.B. Oliver, A.A. Raney, & J. Bryant (Eds.), *Media effects: Advances in theory and research* (4th ed., pp. 115-129). Routledge.

**Dissertation or Thesis References**

Author, A. (Year). *Title of Dissertation* [Doctoral dissertation, Name of Institution Awarding the Degree]. Database Name.

Zambrano-Vázquez, L. (2016). *The interaction of state and trait worry on response monitoring in those with worry and obsessive-compulsive symptoms* [Doctoral dissertation, University of Arizona]. UA Campus Repository. <https://repository.arizona.edu/handle/10150/620615>

**Webpage on a website**

Author, A., Author, B., & Author, C. (Date). *Title of the Website*. Webpage name. https://url.com

Center for Systems Science and Engineering. (2020). *COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University*. Johns Hopkins University. <https://gisanddata.maps.arcgis.com/apps/opsdashboard/index.html#/bda7594740fd40299423467b48e9ecf6>

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Figure 1.Shell color pattern of Drymaeus tripictus. A and B have some white or translucids dots on body whorl similar to Drymaeus irazuensis. Mating was performed between the following color patterns: A with B., B. with C.

Figures

Figures must be in color. The title of the figure must be centered and have a period at the end.

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Figure 1. Satisfaction of the experience survey.

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