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ARTIGO

Title: subtitle

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Abstract: According to ABNT NBR – 6028, the abstract should consist of a sequence of concise sentences in a single paragraph. It informs the reader of the purpose, methodology, results, and conclusions of the document. Use the third person. It should contain up to 250 words. It should not contain acronyms or quotations. (Calibri font , size 10, justified, single line spacing). Write foreign words without italics.
Keywords: word 1; word 2; word 3; word 4; word 5. It should contain three to five keywords, separated by semicolons. They should be different from terms already used in the title and presented in alphabetical order. Use terms obtained from the National Agricultural Thesaurus to select the keywords.

Resumo: Conforme a ABNT NBR – 6028, o resumo deve ser composto por uma sequência de frases concisas em parágrafo único. Informa ao leitor a finalidade, metodologia, resultados e conclusões do documento. Verbo na terceira pessoa. Deve conter até 250 palavras. Não deve conter siglas ou citações. (Fonte Calibri, tamanho 10, justificado, espaçamento entrelinhas simples). Grafar palavras estrangeiras sem itálico.
Palavras-chave: palavra 1; palavra 2; palavra 3; palavra 4; palavra 5. Deve conter de três a cinco Palavras-Chave, separadas por ponto e vírgula. Devem ser diferentes dos termos já utilizados no título, apresentadas em ordem alfabética. Empregar termos obtidos do Thesaurus Agrícola Nacional - para selecionar as palavras-chave.

Resumen: *Según la ABNT NBR – 6028, el resumen debe estar compuesto por una secuencia de frases concisas en un solo párrafo. Informar al lector el propósito, metodología, resultados y conclusiones del documento. Verbo na terceira pessoa. Debes contar con 250 palavras. No debe contener abreviaturas ni citas. (Fonte Calibri, tamanho 10, justificado, espacio entre líneas simples). Escribe palabras extranjeras sin cursiva.*
Palabras-clave*: palavra 1; palavra 2; palavra 3; palavra 4; palavra 5. Deve conter de três a cinco Palavras-Chave, separadas por ponto e vírgula. Deberemos diferenciarnos de los términos ya utilizados en el título, presentados en orden alfabético*.

1 INTRODUCTION
Required element. Must comply with RAC publication standards, instructions, and guidelines.

2 TEXTUAL
Required element. The title of this section is defined by the author. The presentation rules must follow the RAC publication standards, instructions, and guidelines.

2.1 Section divisions: follows the ABNT 6022 – 2018 and ABNT 6024 - 2012 standards. Textual divisions follow the progressive numbering order of sections and subsections, as well as the use of alphabetical numbering.

Example:
1 INTRODUCTION
2 TEXTUAL : To divide a section into subsections, there must be at least two subsections.
2.1 Subsection
2.2 Subsection
a) Cultivars x
b) Cultivars and
c) Cultivars z [...]
3 MATERIALS AND METHODS
4 RESULTS AND DISCUSSION
5 CONCLUSION
REFERENCES

2.2 Section titles: Calibri font , size 12, left-justified, bold.

2.3 Text: In plain Calibri font , size 11, justified, 1.5 line spacing. 1cm indent.

2.4 Use of acronyms: the first appearance must be preceded by the full name.

2.5 Words in another language: should be in italics.

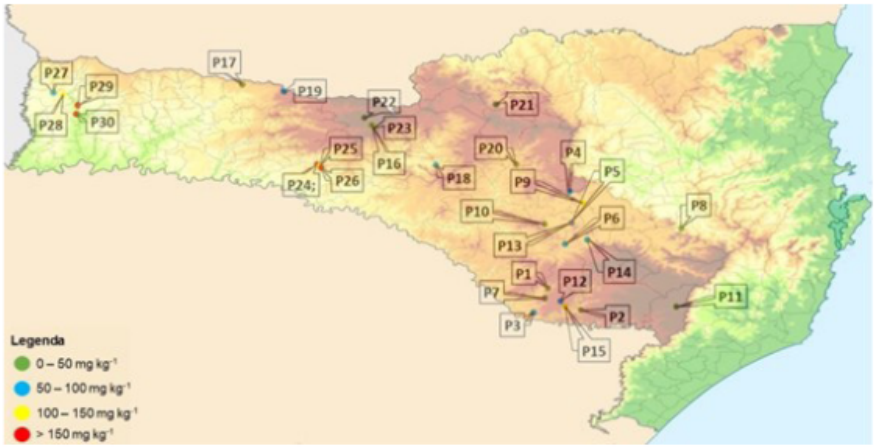
2.6 Illustrations: charts, tables, graphs, photos, maps, drawings, diagrams – the rule is the same for all. The font size for indicating authorship should be smaller than the text font. It must include the title (e.g., Table 1 - sampling), source (e.g., Source: data obtained from Epagri (2024)). Even if the illustration is by the author, the source must include the author's information, or that it was created by the author. If it is an illustration by the author that was published in another material, it must be mentioned in citation format, e.g., Source: Table obtained from (Santos, 2024). All illustrations must be submitted as a supplementary document, in TIF or PNG format, 600 DPI resolution, attached at the time of submission. Consult the IBGE, Inmetro, and ABNT tabular presentation standards .

Table 1 - Authorship and year of publication

Authorship	Year	Percentage
Ana Lúcia Hanisch	2024	20%
Daniel Dalgallo	2023	17%
Felipe Bermudez Pereira	2022	15%
Donato João Noernberg	2021	14%
Angela Fonseca Rech	2020	10%

Source: prepared by the authors (2025)

Figure 1 - Natural barium levels at sampling points in the state of Santa Catarina, Brazil



Source: Image obtained from Rosini *et al.* (2024).

Table 1 – Units of measurement

Unit of measurement	Presentation
Kilos , kilos	kg
Calories	kcal
milliliters	mL
microliters	µL
Micromol	µmol
Microgram	mg
Millimeters	mm
Chemical formulas	(H_2O_2); $FeSO_4$
Hydrogen ion potential	pH
Milligram	mg
Multiplication	mm

Milligrams per milliliter	mg mL-1
Milligrams per gram	mg g -1
Milligrams per kilogram	mg kg-1
Time	1 min = 60 s

Source: Based on Imetro guidelines (2025)

For the use of units of measurement, consult the International System of Units document (Imetro , 2025).

Mention of the use of AI for image creation used in the text.

Figure 2 – DNA transforming into a sheet



Source: OpenAI, ChatGPT (2025) .

When using figures, images, tables, or charts obtained from third-party texts, the source must be cited and referenced, along with the list of references.

At RAC, the use of AI follows the guidelines described in the Publication Ethics Policy, which states:

Use of AIs: The use of AIs can be employed to support research. AI is not an author! One must adhere to the conscious and ethical use of these systems, “Hiding the use and content of AI is an ethical lapse that violates the principles of transparency and honesty” (SciELO, 2018, free translation). “AI bots have no notion of reliability, replicability, or “truth”: they simply return [...] produce content that appears factual, but may not be correct” (Levene, 2023, free translation). Responsibility for the content, data, and research rests with the author. RAC considers the use of AI acceptable for text revision, construction of charts and tables, generation of illustrative images, and review of statistical or mathematical calculations, provided that the AI used, the prompt, and the execution date are cited. If the use of AI is essential, prioritize those specifically designed for application in academic work. Authors must declare – at the time of submission – any type of AI use, detailing its use in the methodology.

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Quotes:

RAC follows the ABNT NBR 10520:2023 standard. RAC recommends the use of the author-date system. When it is an individual, the entry is by last name, e.g., (Suplicy, 2018) or Suplicy (2018). When it is an institution, the entry is by full name or acronym, e.g., (Epagri, 2025) or Epagri (2025), or (Empresa de Pesquisa Agropecuária e Extensão Rural de Santa Catarina, 2025).

Direct and literal quotation of up to three lines: should be presented in double quotation marks, e.g.: "Although they are considered sessile animals, mussels move slowly, releasing and attaching new byssus , seeking a better space to grow and feed among other mussels. [...]" (Suplicy, 2018, p. 77).

Direct and literal quotations longer than three lines should be indented 3 cm from the margin, without quotation marks, and with single line spacing. The font size should be smaller than the text, e.g.:

> The brown and chestnut lines were the ones that suffered the least and survived. Hence, the importance of expanding the studies with a larger number of lines, in order to identify those that have best adapted to the climate of southern Brazil and that will become likely candidates for the genetic improvement studies that are intended to be conducted (Santos, 2018, p. 09).

Citations with more than three authors: it is recommended to use the expression et al. in italics, e.g.: (Suplicy *et al.,* 2020) or outside the parentheses, Suplicy *et al.* (2020).

Citing different texts from the same year and author: this should be followed by alphabetical representation, e.g., (Suplicy, 2018a, 2018b) or Suplicy (2018a, 2018b). The same representation occurs in the references, in alphabetical and chronological order.

When citing the same author but with different publication dates, e.g., (Suplicy, 2018, 2019, 2021, 2024) or Suplicy (2018, 2019, 2021, 2024).

Indirect citations from different authors within the same parentheses can also be used, e.g., (Silva; Andrea; Costa, 2020; Suplicy, 2018; Toresan , 2016), generally used to group authors who share the same viewpoint on a topic.

Notes:
Avoid using footnotes for references and citations. If necessary, footnotes should be explanatory, used for comments, clarifications, translations, or explanations that cannot be included in the text. Indicate them in the text using sequential Arabic numerals. Use Calibri font , size 9, and single spacing.

For other questions regarding the use of citations, please consult the ABNT NBR 10520:2023 standard.

REFERENCES

For this section, RAC adopts the ABNT NBR 6023:2025 standard - references, which guides the presentation of materials cited in the study.

References are presented in alphabetical order, single-spaced, and left-justified. In the case of multiple references from the same author, the alphabetical order is followed, and in this case, chronological order. When there is more than one reference from the same author in the same year, present them in alphabetical and chronological order, and insert the lowercase alphabetical notation next to the year, according to the citation order; e.g., Suplicy (2018a) and Suplicy (2018b), the text cited as (a) will be presented in the reference list before the one cited as (b), and so on, if there are more texts.

Example of reference models

Laws:

BRAZIL. Law No. 13,303 of June 30, 2016. Provides for the legal status of public companies, mixed-economy companies and their subsidiaries, within the scope of the Union, the States, the Federal District and the Municipalities. **Official Gazette of the Union** , Brasília, July 1, 2016.

BRAZIL. Ministry of Agriculture and Livestock. **National Agricultural Thesaurus** . 2026. Available at: https://sistemas.agricultura.gov.br/tematres/vocab/index.php. Accessed on: January 6, 2026.

SANTA CATARINA. Decree No. 1,484 of April 1, 2019. Approves a state of emergency in the municipalities mentioned. **Official Gazette of the State of Santa Catarina** , Florianópolis, April 1, 2019.

Standards:

Brazilian Association of Technical Standards. **NBR 10520** : Information and documentation – Citations in documents – Presentation. Rio de Janeiro: ABNT, 2023. Available at: http://plone.ufpb.br/secretariado/contents/documentos/abnt-docs/2023_abnt-10520-citacoes.pdf . Accessed on: May 4, 2025.

Brazilian Association of Technical Standards. **NBR 6028** : Information and documentation – Summary – Presentation. Rio de Janeiro: ABNT, 2021. Available at: http://plone.ufpb.br/secretariado/contents/documentos/2021_ABNT6028Resumo.pdf . Accessed on: May 4, 2025.

Brazilian Association of Technical Standards. **NBR 6023** : Information and documentation — References — Preparation. Rio de Janeiro: ABNT, 2025. Available at: https://drive.google.com/file/d/1nmL84SkP8cwyOxqfrYlYybvS79qYv58-/view?usp=sharing. Accessed on: March 6, 2025.

Brazilian Association of Technical Standards. **NBR 6022** : Information and documentation - Article in technical and/or scientific periodical publication - Presentation. Rio de Janeiro: ABNT, 2018.

Brazilian Association of Technical Standards. **NBR 6024** : Information and documentation - Progressive numbering of document sections — Presentation. Rio de Janeiro: ABNT, 2012.

Brazilian Institute of Geography and Statistics. **Standards for tabular presentation** . Rio de Janeiro: IBGE, 1993. Available at: http://biblioteca.ibge.gov.br/visualizacao/monografias/GEBIS%20-%20RJ/normastabular.pdf . Accessed on: February 20, 2025.

NATIONAL INSTITUTE OF METROLOGY. **International System of Units (SI)** . 9th ed. Portuguese-Brazilian translation. Brasília – DF: Inmetro/IPQ, 2025. Available at: https://www.gov.br/inmetro/pt-br/assuntos/metrologia-cientifica/documentos-tecnicos-em-metrologia/si_versao_final.pdf

Articles:

SANTOS, Alex Alves dos. Production of the macroalga Kappaphycus alvarezii in Santa Catarina, 2023/2024 crop season. **Agropecuária Catarinense** , Florianópolis, v.37, n.3, 2024. Available at: https://publicacoes.epagri.sc.gov.br/rac/article/view/1899/1768 . Accessed on: March 6, 2025.

SUPLICY, Felipe Matarazzo. Effect of initial stocking density on the productivity of Perna perna mussels in Santa Catarina. **Agropecuária Catarinense** , Florianópolis, v.31, n.1, p.77-81, Jan./Apr., 2018a. Available at: http://dx.doi.org/10.22491/RAC.2018.v31n1.11 . Accessed on: Mar. 10, 2025.

SUPLICY, Felipe Matarazzo. Effect of initial stocking density on the productivity of Perna perna mussels in Santa Catarina. **Agropecuária Catarinense** , Florianópolis, v.31, n.1, p.77-81, Jan./Apr., 2018b. Available at: http://dx.doi.org/10.22491/RAC.2018.v31n1.11 . Accessed on: Mar. 10, 2025.

Books:

CIOTTA, Marlise Nara; ARIOLI, Cristiano João; PINTO, Felipe Augusto Moretti Ferreira; SANTOS, Karine Louise dos; ARAUJO, Leonardo; PASA, Mateus da Silveira (eds.). **The culture of the mountain guava tree** . Florianópolis: Epagri, 2018. 216p.

FAORO, Ivan Dagoberto (ed.). **'Gala' group apples in Brazil.** Florianópolis: Epagri, 2022. 304p.

Book Chapter:

LUIZ, Marilde T. Bordignon; BURIN, Vívian Maria. Chemical composition of wine from the high-altitude regions of Santa Catarina. In: PALLADINI, Luiz Antonio ; BRIGHENTI, Alberto Fontanella; SOUZA, André Luiz Kulkamp de; SILVA, Aparecido Lima da (orgs .). **Potential of wine grape varieties in the high-altitude regions of Santa Catarina** . Florianópolis: Epagri, 2021. 212p .

Citation and referencing for the use of AI.

(OpenAI, 2025).

OpenAI. **Generated an image of a plant.** ChatGPT, November 20, 2025. (version of March 14, 2025) [Large Language Model]. https://chat.openai.com/chat

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ADDITIONAL INFORMATION

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Note of thanks: use this field to record any acknowledgments you deem necessary.

Authorship contribution - CRediT :

The roles that comprise an authorship contribution are: Conceptualization, Data Curation, Formal Analysis, Funding Acquisition, Research, Methodology, Project Management, Resources, Software, Supervision, Validation, Data Visualization (infographic, flowchart, table, graph, images, etc.), Writing – first draft, Writing – revision and editing.

Every contribution must be listed according to the Credit's role guidelines and must be presented after the full name of each author, as in the example below:

Author (Full name, no abbreviations): Conceptualization, Formal Analysis, Research, Writing - revision and editing.

Author (Full name, no abbreviations): Conceptualization, Data Curation, Formal Analysis, Funding Acquisition, Research.

Author (Full name, no abbreviations): Resources, Software, Supervision, Validation, Writing – first draft, Writing – revision and editing.

And so on…