

Development of text-mining solutions to facilitate lipid metabolism interpretation in Genome-Scale Metabolic Models

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Abstract. The abstract should briefly summarize the contents of the paper in 15–250 words.

Keywords: First keyword · Second keyword · Another keyword.

1 Introduction

1.1 Context and motivation

Following the new era of digital development, in the past decades, the whole science is experiencing a great evolution and growth that starts with the investment in education and facilities that ultimately leads to the innovation or the creation of a new "value". The exponential growth of the science produced can be measured by the number of articles and citations that have been made through these years[1], this is self-evident in the field of omics where the data produced almost grew by forty times[2]. Aligned with the growing need to have easily accessible, well structured and cured data has brought to light some challenges.

Contextualizar e dar a entender a motivação que nos levou a fazer este projeto qual o problema?

1.2 Objective

Objetivo proposto para este projeto.

2 State of art

2.1 Omics

O que é o conceito de omica.

2.2 Lipid problem

Explicar o que é um lipido? e aprofundar o problema.

2.3 Graph database

Explicar o que são bases de dados em grafos onde se enquadra a boimmg.

Please note that the first paragraph of a section or subsection is not indented. The first paragraph that follows a table, figure, equation etc. does not need an indent, either.

Subsequent paragraphs, however, are indented.

Sample Heading (Third Level) Only two levels of headings should be numbered. Lower level headings remain unnumbered; they are formatted as run-in headings.

Sample Heading (Fourth Level) The contribution should contain no more than four levels of headings. Table 1 gives a summary of all heading levels.

Table 1. Table captions should be placed above the tables.

Heading level	Example	Font size and style
Title (centered)	Lecture Notes	14 point, bold
1st-level heading	1 Introduction	12 point, bold
2nd-level heading	2.1 Printing Area	10 point, bold
3rd-level heading	Run-in Heading in Bold. Text follows	10 point, bold
4th-level heading	<i>Lowest Level Heading.</i> Text follows	10 point, italic

Displayed equations are centered and set on a separate line.

$$x + y = z \tag{1}$$

Please try to avoid rasterized images for line-art diagrams and schemas. Whenever possible, use vector graphics instead (see Fig. 1).

Theorem 1. *This is a sample theorem. The run-in heading is set in bold, while the following text appears in italics. Definitions, lemmas, propositions, and corollaries are styled the same way.*

Proof. Proofs, examples, and remarks have the initial word in italics, while the following text appears in normal font.

For citations of references, we prefer the use of square brackets and consecutive numbers. Citations using labels or the author/year convention are also acceptable. The following bibliography provides a sample reference list with entries for journal

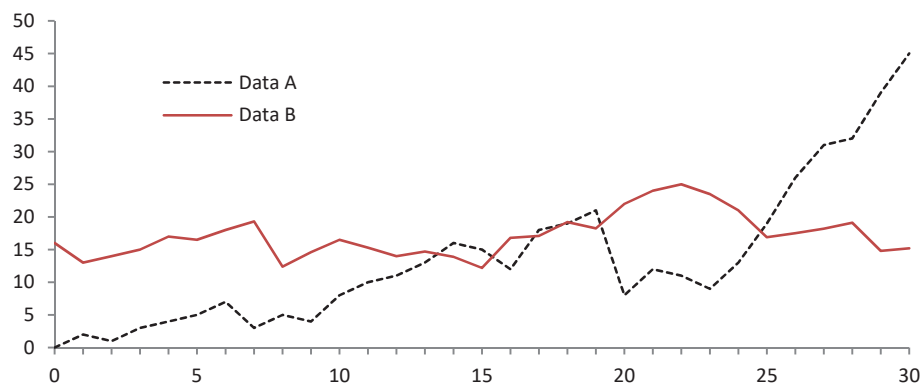


Fig. 1. A figure caption is always placed below the illustration. Please note that short captions are centered, while long ones are justified by the macro package automatically.

References

1. Lutz Bornmann and Rüdiger Mutz. Growth rates of modern science: A bibliometric analysis based on the number of publications and cited references. *Journal of the Association for Information Science and Technology*, 66:2215–2222, 11 2015.
2. Jeffrey A Van Santen, Satria A Kautsar, Marnix H Medema, and Roger G Linington. Microbial natural product databases: Moving forward in the multi-omics era hhs public access.