**Title bolded, 13-point Times New Roman, centered**

**Antimicrobial Production by an Actinomycetes Isolated from the Termite Nest**

First author 1,\*, Second author(s)2, Other author1

1Author’s affiliation and full mailing address in 10-point Times New Roman, centered

2Author’s affiliation and full mailing address in 10-point Times New Roman, centered

Ni Putu Ratna Ayu Krishanti1 \*, Deni Zulfiana2, Bramantyo Wikantyoso2

1Research Center for Biomaterials, Indonesian Institute of Sciences, Bogor 16911, Indonesia

2Universitas Pembangunan Nasional “Veteran” Jawa Timur, Surabaya 60294, Indonesia

\*Corresponding Author: xxx@somewhere.com

**Abstract (Bahasa Inggris)**

The body of your abstract begins here. It should be an explicit summary of your presentation that states the problem, the methods used, and the major results and conclusions. Do not include scientific symbols, acronyms, numbers, bullets or lists in the abstract. It should be single-spaced in 10-point Times New Roman. The first part of your abstract should state the problem you set out to solve or the issue you set out to explore and explain your rationale for pursuing the project. The problem or issue might be a research question, a gap in critical attention to a text, a societal concern, etc. The purpose of your study is to solve this problem and/or add to your discipline’s understanding of the issue. This section of the abstract should explain how you went about solving the problem or exploring the issue you identified. Your abstract should also describe the research methods; this section should include a concise description of the process by which you conducted your research. Next, your abstract should list the results or outcomes of the work you have done so far. If your project is not yet complete, you may still include preliminary results or your hypotheses about what those results will be. Finally, your abstract should close with a statement of the project’s implications and contributions to its field. It should convince readers that the project is interesting, valuable, and worth investigating further. In particular, it should convince conference registrants to attend your presentation. These directions are written in the format required for the abstract of the paper for **BBC 2022.** We recommend that you save and submit the abstract in **Ms. Word, A4-page format.** The content of the abstract will be the basis for acceptance of the oral presentation at this conference. The abstracts will be peer reviewed and authors will be informed about acceptance for presentation via email. Be sure to adhere to the word limitation for the abstract (250 words).

**Keywords:** Provide at least 3 keywords, separated by a comma (,)

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**Kata Kunci:** Provide at least 3 keywords, separated by a comma (,)

**Introduction**

Indonesia excels in a period of 2045 prepared by the application from the map of the industrial revolution ere 4.0. answering education as a solution to the impact of the industrial era 4.0. required

**Material and Methods**

***Preparation of termite nest sample***

*Actinomycetes isolates growth*

Sample of termite nest was collected in September 2016 from Pananjung Pangandaran Nature Reserve, West Java, Indonesia. Termite nest was obtained by cruise method. The type of collected nest



Figure 1. Actinomycetes isolates growth in HV agar media

Table 1. Actinomycetes isolates growth

|  |  |  |  |
| --- | --- | --- | --- |
| No | Poin 1 | Poin 2 | Poin 3 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
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**Results and Discussion**

***Isolation of Actinomycetes from termite’s nest sample***

In this research, we using HV agar media to isolate Actinomycetes from the termite’s nest sample. Its classify into nutrient-poor media therefore not many other microorganisms are able to live and utilize nutrients available in the media other than Actinomycetes bacterial group. In the process of Actinomycetes. we found contain in soil can be detected and avoided by termites with several disease resistance mechanism. A trend in termite evo-lution of nests was observed progressively reducing contact with soil. The high incidence of entomopathogens in soil were likely involved in the evolution of the more derived nesting habits in *Nasutitermes*. Environmental factors such as moisture, temperature, and light may be attributed to characteristic of termite nesting then may lead to influence the composition of microbial communities in termite nest [41].

**Conclusion**

The strain *S. prasinopilosus* Pn-TN2 which isolated from termite nest sample, showed a broad range of antimicrobial activity against bacterial and fungal test. Result showed that this isolate possessed inhibition rate antifungal activity by 80% against *F. oxysporum*, 61% against *F. palustris*, and 62% against *T. viridae*. Advised, this isolate also

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Abstract writing in 2 languages ​​(Indonesian & English)