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Judul Karya Ilmiah (Prosiding) : Ozonation of methylene blue and its fate study using LC-MS/MS  
 Nama/ Jumlah Penulis : Didik Setiyo Widodo/6 orang  
 Status Pengusul : Penulis ke-5  
 Identitas Prosiding : a. Judul Prosiding : Journal of Physics: Conference Series  
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## Ozonation of methylene blue and its fate study using LC-MS/MS

[Adelin M.A.<sup>a</sup>](#); [Gunawan G.<sup>a</sup>](#) ; [Nur M.<sup>b</sup>](#); [Haris A.<sup>a</sup>](#); [Widodo D.S.<sup>a</sup>](#); [Suyati L.<sup>a</sup>](#) [Save all to author list](#)<sup>a</sup> Chemistry Department, FSM, Diponegoro University, Semarang, Indonesia<sup>b</sup> Physics Department, FSM, Diponegoro University, Semarang, Indonesia2 91th percentile  
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In this study, ozone was used to degrade an organic compound of methylene blue dye. The methylene blue was treated with ozonation using ozone generator and the degradation was observed as dye decolorization. Various parameters of ozonation such as contact time, pH, and temperature were chosen. The maximum ozonation of methylene blue degradation was at pH and contact time of 11 and

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Hama Aziz, K.H. , Mahyar, A. , Miessner, H.

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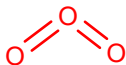
13 min, respectively. The effect of temperature on the destruction of methylene blue with ozone was obtained the highest result at temperature 35 C. The LC-MS/MS results showed that ozonation caused degradation of methylene blue producing a compound with molecular weight of 208 g/mol as the unstable compound of N-(4-nitrophenyl) butanamide (C<sub>10</sub>H<sub>12</sub>N<sub>2</sub>O<sub>3</sub>). Finally, it formed stable fraction compound of 1-nitrocyclohexene (C<sub>6</sub>H<sub>9</sub>NO<sub>2</sub>) with molecular weight of 127 g/mol which much safer and reduce the harmness of methylene blue in waste. © Published under licence by IOP Publishing Ltd.

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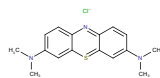
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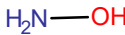
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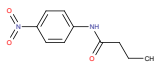
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| 2.  | Prof. Dr. Baba Musta              | Geochemistry                              | Faculty of Science, UMS                                                                             | Malaysia  |
| 3.  | Prof. Dr. Ir. Rokhmin Dahuri, MS. | Marine Resource and Environmental Studies | President of Indonesian Aquaculture Society; Proffesor in Marine Resource and Environmental Studies | Indonesia |
| 4.  | Sapto P. Putro, M.Si., Ph.D.      | Marine Ecology and Aquaculture            | Faculty of Science and Mathematics, Diponegoro University                                           | Indonesia |

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| 1.  | Dinar Mutiara Kusumo Nugraheni, S.T., M.InfoTech.(Comp). | Computer Science | FSM UNDIP   | Indonesia |
| 2.  | Dr. Eng. Ali Khumaeni, S.Si., MS                         | Physics          | FSM UNDIP   | Indonesia |
| 3.  | Dr. M. Cholid Djunaidi, M.Si.                            | Chemistry        | FSM UNDIP   | Indonesia |
| 4.  | Dr. Lilih Khotimperwati, S.Si., M.Si.                    | Biology          | FSM UNDIP   | Indonesia |
| 5.  | Dr. Tarno, M.Si.                                         | Chemistry        | FSM UNDIP   | Indonesia |
| 6.  | Farikhin, M.Sc. Ph.D.                                    | Mathematics      | FSM UNDIP   | Indonesia |

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**Prof. Dr. Ir. Rokhmin Dahuri, MS**, President of **Indonesian Aquaculture Society**; Proffesor in Marine Resource and Environmental Studies

## Isolation and identification of rare actinomycete-like bacteria from soil-based on 16S ribosomal RNA gene sequences

Y Eshananda<sup>1</sup>, F Ningsih<sup>1,2</sup>, Y Sakai<sup>3,4</sup>, A Yokota<sup>3</sup>, S Yabe<sup>3,4</sup>, W Sjamsuridzal<sup>1,2</sup>

<sup>1</sup>Department of Biology, Faculty of Mathematics and Natural Sciences, Universitas Indonesia, Kampus UI Depok, Depok 16424, Indonesia

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<sup>3</sup>Department of Microbial Resources, Graduate School of Agricultural Science, Faculty of Agricultural, Tohoku University, 468-1 Aoba, Aramaki, Sendai, Miyagi 980-0845, Japan

<sup>4</sup>Hazaka Plant Research Center, Kennan Eisei Kogyo Co., Ltd., 44 Aza-Inariyama, Oaza-Ashitate, Murata-Cho, Shibata gun, Miyagi 989-1311, Japan.

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**Abstract.** The rare actinomycete-like bacteria are mycelium-forming bacteria other than phylum *Actinobacteria* that difficult to isolate and cultivate. This group of bacteria was recently speculated by many scientists as a potential new microbial resource for the discovery of novel compounds, as a substitute for actinomycetes. In this study, we isolate and identify rare actinomycete-like bacteria from forest soil collected under bamboo trees, near the Cisolok Geysers, Sukabumi, Indonesia. The isolation of bacteria was performed using Reasoner's 2A (1:10 dilution) medium with 2% gellan gum instead of agar and incubated at 30 °C for three weeks. The 16S rRNA gene sequences of the isolates were examined to determine their taxonomic position. Four isolates designated K17-1, K17-2, K42, and K44 showed pale oranges colonies and formed mycelia were obtained. The results of 16S rRNA gene sequences of these isolates showed high similarity to members of the genus *Dictyobacter* in the family *Dictyobacteraceae* of the class *Ktedonobacteria* of the phylum *Chloroflexi*, with values 97.16-98.02%, and most closely related to the species *Dictyobacter aurantiacus* S-27<sup>T</sup> (97.16-98.02% similarities). This result suggested that the member of the class *Ktedonobacteria*, which considered as rare actinomycete-like bacteria, such as *Dictyobacter* could be found in the forest soil of the geothermal area.

### 1. Introduction

*Actinobacteria* are gram-positive bacteria that have a high percentage of guanine and cytosine in their genome [1]. This group morphologically comprises unicellular organisms to mycelium-forming bacteria which called Actinomycetes [1,2]. However, bacteria that have filamentous appearance also could be found in the phylum *Chloroflexi*. The member of this phylum which has actinomycete-like morphology is present in the four different class namely *Chloroflexi*, *Anaerolineae*, *Caldilineae* and *Ktedonobacteria* [3]. Among these class, *Ktedonobacteria* has some obvious morphological features which distinguish themselves from others. The member of *Ktedonobacteria* are aerobic organism and forming branched mycelia with spores like actinomycetes [3,4]. Moreover, most validly published strains of *Ktedonobacteria* budding their multiple spores per cell on the aerial mycelium which unique among bacteria [5]. All of *Ktedonobacteria* identified as gram-positive bacteria while almost of the member in phylum *Chloroflexi* were gram-negative [3,6]. Based on these exceptional characters, class *Ktedonobacteria* could be included as the rare actinomycete-like bacteria.

Rare actinomycete-like bacteria could provide an alternative for the discovery of new compounds derived from microorganisms because spore formation usually would be followed by the production of secondary metabolites [7,8]. Further analysis of the genomic of nine members of rare actinomycete-like bacteria



# Hoax news validation using similarity algorithms

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**Abstract.** News that is presented every day on social media dramatically affects the feelings, feelings, thoughts, or even actions of a person or group. Hoax News is one of them which is disturbing the public and raising noise in various fields, ranging from politics, culture, security, and order, to the economy. Inseparable from social media users. How every day, there is information on social media, which is not necessarily true so that people are provoked by hoax on social media. The news detection system in this study was designed using Unsupported Learning so that it does not require data training. The system was built using the Equation algorithm to calculate the validity of document similarity. Extraction results used to search for content related to user input using a detection engine, then the similarity value and the time needed to utilize hoax news are calculated. System validation testing by using a four text similarity algorithm called the Equation algorithm, the Levenshtein algorithm, the Smith-Waterman algorithm, the Damerau Levenshtein algorithm; this algorithm is used to find the best analytical solution of news hoaxes and submissions needed to find the news hoax password. The final results of the deception detection research using a script that has been done for Validation using an algorithm, get the value of accuracy in detection using the Smith-Waterman algorithm, which produces an accuracy value of text similarity of 99.29% and can be used a process of 6, 57 seconds, followed by the second sequence that is the similarity algorithm produces an accuracy of 75% and requires a processing time of 4.94 seconds, then the third sequence is the Levenshtein algorithm with an accuracy of 55.02% and requires a processing time of 5.49 seconds, and is used today is Damerau Levenshtein algorithm is 55.02% and requires a processing time of 7.54%. The results of research tests on this text can conclude the more text on the detection engine, the higher the verification value and the higher the time needed to process hoax news.

## 1. Introduction

Sharing information is a positive thing, but not all information disseminated through social media is in the form of facts. There have been various cases of spreading the news that is not facts or often called hoaxes. Whereas hoax is critical information that misleads human perception by spreading false information but considered as valid, No wonder then the intensity of fake news and hoax news on social media is so viral on social media [1]. For personal and group benefit by spreading harmful content that caused unrest and mutual suspicion in the community [2]. The ease and speed of dissemination on social media make this hoax news known to many people in a relatively short period, and can to more people.



# Subsurface mapping of University Diponegoro Tembalang campus based on resistivity data

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**Abstract.** Subsurface mapping using the geoelectric method has been carried out in the area of Undip Campus, Tembalang to determine the distribution of subsurface layers resistivity. This study employs the Wenner configuration geoelectric method. Data were collected at seven points with a track length of 100 meters and a distance among electrodes of 5 meters. Data processing is carried out using RES2DINV software packages that produce rock resistivity values and depth estimates, then the interpretation of each track is carried out in detail by taking into account the geological information available in the Undip campus, Tembalang. The results of the interpretation show that the study area is dominated by breccias which are Kaligetas formations. The breccia rocks themselves are claystone which tends to be water-resistant and there is also sandstone. Nearly every data collection point has the same cross-section. Claystone with resistivity ranges from 3.05  $\Omega\text{m}$  to 26.5  $\Omega\text{m}$ . Sandstones with resistivity range from 20.0  $\Omega\text{m}$  to 135  $\Omega\text{m}$ . The rest found alluvium and sand with a resistivity of almost more than 100  $\mu\text{m}$ .

## 1. Introduction

Diponegoro University was located in Tembalang District, Semarang is one of the best public universities in Indonesia. Construction of infrastructure facilities on campus is continuously carried out to support the learning process and the progress of Diponegoro University. Development activities include the construction of: reservoirs, parking buildings, lecture buildings, sports facilities, irrigation, final disposal, etc. The development requires the preparation of land and carrying capacity of the region. Integrated mapping is needed not only on the surface but also on the subsurface is very important. So in this study, we focus on mapping the subsurface conditions based on the distribution of resistivity values using resistivity geoelectric method. The principle of resistivity geoelectrical method is injection the current through the subsurface to obtain the potential value of the rocks and to get resistance value [1][2][3]. Wenner configuration selection is preferred for mapping with shallow depth. Furthermore, Sudarsono 1984, revealed the need to study the characteristics of the land and its functions so that they could predict what to do when loading occurred on the land.

The results of the mapping are expected to provide information about soil conditions including soil layers, soil structure, soil conditions, bedrock depth, stability. The information obtained will be used as a reference for the next infrastructure work.



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