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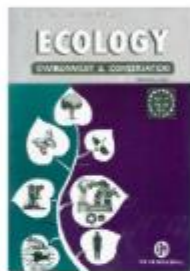
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Aspects of Government Coercion in Environmental Licensing Law to Prevent Environmental Crisis In Indonesia

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ABSTRACT

Law enforcement in question is through administrative law; with the existence of administrative law, it is expected that the public can obey the rules to increase awareness of the rules; one form of law enforcement is government coercion. Based on the above problems, this study aims to analyze government coercion in environmental licensing law to prevent environmental crises in Indonesia. The study uses a type of normative juridical research with descriptive-analytical research specifications. The results showed that the government's coercion is one of the natural forms of government action used to end violations and reverse the original state of government. Aspects of government coercion are helpful to improve regulations with firm sanctions, especially in the implementation of the Environmental Impact Analysis for sustainable development, where sustainable development impacts the environment itself. There are also unlimited administrative sanctions against government coercion sanctions, payment of forced money and revocation of permits. However, it also regulates other administrative sanctions as stipulated in Article 76 paragraph (2) consisting of a written reprimand, government coercion, freezing of environmental permits, revocation of environmental permits.

Key words : *Environment, Environmental Law, Administrative Sanctions, Government Coercion, Environmental Crisis, Indonesia.*

Introduction

Progress in development that has occurred in Indonesia has dramatically impacted the quality of the environment in Indonesia (Yusuf and Resosudarmo, 2009). Development in several sectors such as the economic sector, government, tourism and so on led to an increasing need for extensive business (Scheyvens, 2011). Development is what makes the environment change in its designation (Stonich, 1995). Therefore, the role of Environmental Impact Analysis is very decisive for environmental quality to minimize environmental quality damage in Indonesia (Sukananda and Nugraha, 2020).

The need for a rule for regulation and regulating land use and projects to control development directly or indirectly impacts the surrounding environment (Bhatia, 2007). The rapid growth of society is a trigger for rapid development growth as well (Otero *et al.*, 2020). People compete to set up businesses and activities such as restaurants, hospitality, entertainment venues, etc. Such businesses and activities carried out by the community are certainly not absorbed from the needs of the land, so that the land is converted as a place of business, of course also cannot be separated from the permit in establishing a business (Anwar *et al.*, 2020). In implementing specific permits, people and businesses tend to

Automation of the process of predicting the SSR as a phase variable within the entire *N. meningitidis* genome

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ABSTRACT

The abundance of repeat tracts along with genome of commensal and pathogenic *N. meningitidis* encourages us to think about a way of predicting the SSR that leads into phase variable mechanism. This prediction has to be automated using different language skills. Therefore our aim was to automate the process of predicting the SSR that leads into a phase variable mechanism relying on different criteria. These criteria were the length, polymorphic, instability and the value of Z score using a Markov model and synonymous shuffling model and the position of SSR within the gene or promoter. Perl script along with cgi and html was used for this purpose. Our automation program can detect three different categories for the SSR that leads into a phase variation mechanism which is weak, moderate and strong putative phase variable gene. We strongly recommended providing a good evidence for our model as it works correctly using experimental work.

Keywords : Automation process, Simple sequence repeats, Phase variation, *N. meningitidis*

Introduction

Generally, *N. meningitidis* colonies the upper respiratory tract with 10-30% being carriage isolates, however, in rare case some strains can evade blood vessels and cause septicemia and meningitis (Stephens, 2009; Caugant and Maiden, 2009). *N. meningitidis* causes septicemia and meningitis with very high rate and despite the presence of antibodies which are effective in clearance of causing disease agents, the commensal remain the main source of infection (Martin *et al.*, 2003; Saunders *et al.*, 2000). The emergence of some strains resist for different vaccines such as conjugate vaccines due to the presence of contingency loci has been proven (Bayliss *et al.*, 2001). The contingency loci are one of the most crucial defence mechanisms in the *N. meningitidis* which is triggers by the action of Localized

hypermutation and play an important role in an adaptation of the bacterial cell in their host (Snyder *et al.* 2001; Orsi *et al.*, 2010). Therefore it is necessary to predict if the SSR has the ability to trigger phase variation and alter their repeats in a changeable manner and our goal was to automate the process of prediction for the putative phase variable genes relying on different criteria have been taken from these others (Saunders *et al.*, 2000; Martin *et al.*, 2003; Snyder *et al.*, 2001; Li *et al.*, 2004; Hsiang and Kussell, 2011; Orsi *et al.*, 2010; Passel and Ochman, 2007; Janulczyk *et al.*, 2010; ENDE *et al.*, 2000).

Materials and Methods

There were different characteristics that have been taken in the consideration for predicting SSR that leads to phase variation which was Z score calcu-