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*Lecturer at the Faculty of Public Health Universitas Sumatera Utara, Public Health Undergraduate Study Program, the field of study in Environmental Health and currently has a functional position as Associate Professor. Her research areas are related to environmental health, namely vector control, environmental toxicology, and mitigation of adaptation to environmental change. Research on vector control was carried out on *Aedes aegypti* mosquitoes to reduce cases of dengue fever, through the use of modified ovitraps in the form of chili solution and *Ricinus communis* (castor tree), which have been shown to be able to increase the free larvae rate up to 85%. Research on environmental toxicology, mitigation, and adaptation to environmental change that was carried out is research on water quality in several dug wells by residents in the Aceh area as a result of the tsunami and air quality research due to exposure to lead (Pb) that came from motor vehicles in Medan. Measurement of lead exposure was carried out in the air, rice plants, and soil that were suspected of being exposed to Pb that came from motor vehicle exhaust.*

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## Publications

2024

Jurnal nasional terakreditasi

### **Effectiveness of *Ricinus communis* as Natural Larvicide for *Aedes aegypti* Mosquito Larvae in Medan City**

EVI DEPIANA GULTOM , WINNI R. E. TUMANGGOR , INDRA CHAHAYA

2023

Jurnal nasional terakreditasi

### **Strengthening of Public Capacity and Health Energy Towards SMART Welfare in Pulo Brayan City Prefecture of West Fields of the City of Medan**

FITRI KHAIRANI , HERU SANTOSA , SRI MALEM INDIRAWATI , WINNI R. E. TUMANGGOR , INDRA CHAHAYA

2018

Jurnal internasional bereputasi

### **Talenta**

INDRA CHAHAYA

2017

Jurnal nasional

### **Modifikasi Ovitrap dan Tingkat partisipasi Masyarakat dalam meningkatkan Angka bebas jentik ddengan Menggunakan Biji Jarak (*Ricinnus comunis*) di Kota Medan**

NOVRIAL , INDRA CHAHAYA

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