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**Pesticides, Metals, and Their Effects on a Mangrove Ecosystem and Human Health
in Ecuador: A One Health Case Study**

door

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KEYWORDS. — One Health; Guayas estuary; Crabs; Pollutants; Risks; Ecuador.

SUMMARY. — One Health recognizes the interconnected health of people, animals, and our environment. In this presentation, Andrée will discuss her PhD research in Ecuador using the One Health framework. Mangrove forests, crucial for food resources, are endangered globally due to pollution and habitat destruction. The Guayas mangroves in Ecuador face increasing pressure from human activities, leading to contaminants in the Ecuadorian red mangrove crabs (*Ucides occidentalis*). This study evaluates the aquatic risks and human health impacts of contaminants like metals and pesticides in these crabs. The findings aim to inform dietary guidelines for the Ecuadorian population and support regulations to protect the Guayas estuary ecosystem.

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