

International Conference on

# AQUACULTURE & MARINE BIOLOGY

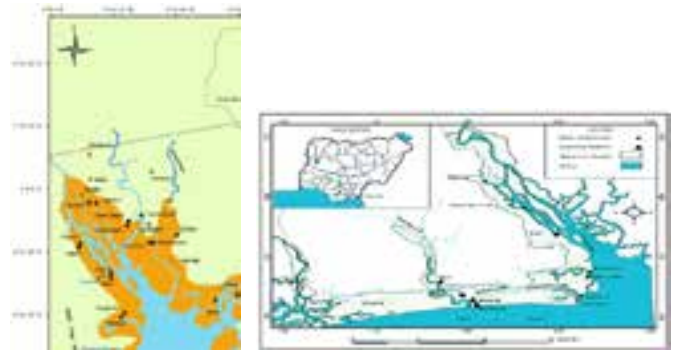
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## Organochlorine pesticides in *Lithorina lithorea*, *Mercinaria mercinaria*, *Callinectes pallidus* and *Penaeus monodon* from Cross River Estuary, Imo River Estuary, Qua Iboe River Estuary, Lagos Lagoon and Badagry Creek

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Organochlorine pesticides (OCPs) has been known to be persistent in the environment and bio-accumulates in aquatic organisms. The OCP levels were measured in water, sediment and shell fishes (*Panaeus monodon*, *Callinectes pallidus*, *Mercinaria mercinaria* and *Lithorina lithorea*) from three (3) state: Lagos State (Lagos Lagoon and Badagry Creek), Cross River State (Cross River estuary), Akwa Ibom State (Imo River estuary) and (Qua Iboe River estuary), between November 2015 to June 2016, using gas chromatography with electron capture detector. The highest mean concentration of OCPs were recorded in Lagos Lagoon and Badagry Creek. The levels in sediment ranged from  $0.150 \pm 0.012$   $\mu\text{g}/\text{kg}$  (Alpha HCH) in Lagos lagoon to  $243.500 \pm 138.000$   $\mu\text{g}/\text{kg}$  (ppDDT) in Badagry Creek. The concentration in shell fishes ranged from  $0.250 \pm 0.009$   $\mu\text{g}/\text{kg}$  (Alpha HCH) in Lagos lagoon to  $67.380 \pm 22.860$   $\mu\text{g}/\text{kg}$  (Endosulfan II) in Badagry Creek for *Callinectes pallidus* and from  $1.310 \pm 0.210$   $\mu\text{g}/\text{kg}$  (alpha HCH) to  $143.500 \pm 71.892$

$\mu\text{g}/\text{kg}$  (Eldrin Aldehyde) in Badagry creek for *Penacus monodon*. Aldrin was detected in all the samples from the five water bodies. The results showed that OCP levels in all shellfish samples analysed were above the maximum acceptable limits of 0.01ppm (10  $\mu\text{g}/\text{kg}$ ) set by EU and Federal Ministry of Environment for aquatic life protection.



### Biography

Clarke Edwin O has awarded with PhD degree at the age of 43 years old from the Lagos State University, Ojo-Lagos State, Nigeria and has been a lecturer in Lagos State University, Lagos, Nigeria since 1998. He is currently a senior lecturer and specializes in plankton dynamics aquatic pollution & ecotoxicology. He has published more than 30 scientific papers in reputable journals and was the immediate past Head of the Department of Fisheries and Aquatic Biology, within the university. He is member of Fisheries Society of Nigeria and other professional associations.

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