Hydrocarbon degradation potentials of yeast isolates from a polluted lagoon. 
*Journal of Scientific Research and Development* 1, 65-69.

**ABSTRACT**

The population counts of heterotrophic and hydrocarbon-utilising yeasts were monitored at six sampling stations in the Lagos lagoon over a four-week period. Although the population counts were relatively constant in each locality, the highest counts occurred in areas heavily polluted by domestic and industrial effluents. A total of thirty-two hydrocarbon-degrading yeasts were isolated from water at the sampling stations using n-hexadecane as sole carbon source. The isolates were identified as belonging to the genera *Candida* (25 strains), *Endomycopsis* (4 strains) and *Schizosaccharomyces* (3 strains). All the organisms grew on long-chain n-alkane, kerosene, diesel oil and crude oil but failed to grow on short-chain n-alkane, aromatic and alicyclic hydrocarbons. Measurement of growth attributes of the isolates using n-hexadecane, diesel oil oil and crude oil as substrates showed that the *Candida* species were better utilizers of hydrocarbon substrates relative to *Endomycopsis* and *Schizosaccharomyces* species.