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## Characterization of chitin for bone tissue regeneration

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Chitin a natural polymer after cellulose and of the organic matrix of the exoskeletons of arthropods and molluscs is the second most abundant. The advancement in medical technology has made chitin and its deacetylated derivative, chitosan, to be used as haemostatic topical agents, natural tissue scaffolds, sealing for porous vascular prostheses, blood cholesterol control agent, drug delivery carriers and anti-tumor agent. The potentials of this biopolymer are enormous and can increase as further investigations on its physiological behaviour and properties are carried out. In this study the chemical extraction of chitin from sea crab and snail shells and their physico-chemical characterizations are carried out.

### Biography

Gbenebor Oluwashina Philips is currently working as an Assistant Lecturer in the Metallurgy and Materials department at the University of Lagos. His research interest is in Materials Science and Technology. He has worked extensively on alloys and their properties like dynamic crystallization, Structural modification, strengthening mechanism and electrochemical assessment of alloys and also studied the mechanical properties of alloys.

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