



UNIVERSITY OF IBADAN, NIGERIA

COLLEGE OF MEDICINE

FACULTY OF CLINICAL SCIENCES



Dean:

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September 12, 2025

The Chief Executive

National Agency for Science and Engineering Infrastructure (NASENI)

Idu Industry Layout, PMB 391 Garki, Abuja

RE: ENDORSEMENT OF THE “CHITINOSAN: SHELLS TO WEALTH” PROJECT

This letter serves as an enthusiastic endorsement of the **Chitinosan: Shells to Wealth Project** of the GAMS-Biotech Team at the Institute of Child Health, College of Medicine, University of Ibadan, which is focused on producing chitosan. Chitosan, a biodegradable, biocompatible, non-toxic biopolymer derived from chitin deacetylation, has medical, pharmaceutical, and agricultural uses. Its global market is projected to reach \$15.1 billion by 2030, yet Nigeria relies on costly imports, hampering local industries and research. Nigeria's abundant arthropod exoskeletons, especially farmable *Macrobrachium vollenhovenii* prawns and *Periplaneta americana* cockroaches, offer sustainable raw materials. This study proposes leveraging these species and a modified alkaline extraction protocol, coupled with scalable semi-automated equipment, to reduce processing time, boost yield, and establish a sustainable chitosan production pipeline in Nigeria.

We offer our institutional commitment to ensure that the proposed project is successful in creating a semi-automated system of producing Chitosan. We will help monitor and track the project to deliver excellent outcomes characterized by remarkable detail and efficiency.

The following staff and student at the College of Medicine, University of Ibadan, will serve as key investigators:

1. Professor Olukemi K. Amodu
2. Mr. Oluwayemi J. Bamikole
3. Mr. Miles-Dei B. Olufeagba
4. Mr. Adebowale E. Aderogba

They will work in collaboration with staff of the Department of Industrial and Production Engineering, University of Ibadan:

1. Dr Adekunle A. Kolawole
2. Dr Inyeneobong E. Edem

I am available to give any additional information needed to support your decision-making process.

Sincerely,

Professor Taiwo A. Lawal, FNAMed

Dean

Sub - Dean (Postgraduate)

DR. FOLUSHO M. BALOGUN

MB;BS (Ilorin), MPH, Ph.D. (Ibadan)

FMCPaed (Nigeria)

Sub - Dean Undergraduate (MB;BS)

DR. BOSEDE E. ADEBAYO

MB;BS (Ibadan), FMCPaed, FNCS

Sub - Dean Undergraduate

(Physiotherapy)

DR. O.O. DADA

B.Sc. (PT) (Ibadan), M.Sc. (Ibadan),

Ph.D. (Ibadan), FPPC (Neuro)

Faculty Officer

M.A. RAJI

M.Ed. (Ib)

Departments

Anaesthesia

Bioethics & Medical Humanities

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