CURRICULUM VITAE

I. **(a)** Name ONILUDE, Anthony Abiodun
(b) Date of Birth 25 December 1952
© Department Botany and Microbiology
(d) Faculty Science
(e) College Not applicable

II. (a) First Academic Appointment 1 March 1982
(b) Present post (with date) Reader (1 October 2003)
© Date of last Promotion 1 October 2003
(d) Date last considered (in cases where promotion was not through) Not Applicable

III. University Education (with dates)

(a) University of Ife, Ile –Ife, (Now O.A.U.), Nigeria. 1974 – 1979
(b) University of Ife. Ile-Ife, (Now O.A.U.), Nigeria 1980 - 1981
(c) University of Ibadan, Ibadan, Nigeria 1990 – 1994

IV. Academic Qualification (with dates and granting bodies)

(a) B.Sc. (Hons.) Microbiology 2nd Class Lower (June, 1979, University of Ife, Nigeria)
(b) M.Sc. Microbiology (1982, University of Ife, Ile-Ife, Nigeria)
(c) Ph.D. Microbiology (1994, University of Ibadan, Ibadan, Nigeria)

V. Professional Qualifications and Diplomas (with dates)

(a) Diploma in Curriculum Studies and Development (1985, Ahmadu Bello University, Zaria, Nigeria)
(b) Diploma in Scientific Instrumentation and Techniques (1988, Bristol Polytechnic, United Kingdom).

VI Scholarships, Fellowships and Prizes (with dates) in respect of Undergraduate and Postgraduate work only)

(a) Federal Government of Nigeria Undergraduate Scholarship, 1975.
(b) Federal Government of Nigeria Postgraduate Scholarship, 1980.
(c) University of Ife, Ile-Ife Postgraduate Scholarship, 1981
(d) The Federal Polytechnic, Ilaro Postgraduate Sponsorship, 1990.

VII Honours, Distinctions and Membership of Learned Societies

(a) Member, Nigerian Society for Microbiology.
(b) Member, Nigerian Institute of Food Science & Technology.
(c) Member, Science Association of Nigeria.
(d) Member, Mycological Society of Nigeria
(e) Member, Society for Industrial Microbiology, USA.
(f) Deputy Editor (Biological), Nigerian Journal of Science (1997- 2000).

(g) Member, Curriculum Drafting Group (Microbiology), National Board for Technical Education (1985- 1990).
(h) External Examiner, (All Courses) University of Lagos, Akoka-Lagos (1999-2002).
(i) External Examiner, (Postgraduate) Obafemi Awolowo University, Ile-Ife (2000, 2002, 2005).

VIII. Details of Teaching Experience at University Level

University of Ibadan (2 October 1995 to Date)

(a) Undergraduate Level Courses :

Course Code	Course Name	Units
BOT 111	Cryptogamic Botany	4
MIC 307	Immunology	3
MIC 325	Soil Microbiology	3
MIC 403	Pharmaceutical Microbiology	3
MIC 405	Epidemiology & Public Health	3
MIC 412	Microbial Genetics	3
MIC 423	Industrial Microbiology	3
MIC 424	Microbial Physiology & Metabolism	3
MIC 491	Research Project	6

(b) Postgraduate Level Courses :

Course Code	Course Name	Units
MIC 701	Research Project	6
MIC 712	Selected Topics in Industrial Microbiology	3
MIC 721	Advanced Microbial Ecology	3
MIC 723	Research Methods in Microbiology	3
MIC 724	Microbiological Quality Control	3
MIC 731	Microbial Biotechnology	3
MIC 732	Advanced Microbial Physiology	3

University of Ife (Now **O**bafemi **A**wolowo **U**niversity, Ile-Ife) (September 1980 – February 1982)

Undergraduate: **Demonstrations** in

Course Code	Course Name	Units
MIC 281	Bacteriology	3
MIC321	Microbial Genetics	3
MIC 322	Microbial Physiology	3
MIC 324	Industrial Microbiology	3
MIC 325	Virology	3

University of Agriculture, Abeokuta, Nigeria (Part – time) (February 1998 – August 2000)

Course Code	Course Name	Units
MCB 201	Biosystematics	2

MCB 401	Research Project	4
MCB 403	Pharmaceutical Microbiology	3
MCB 404	Epidemiology & Public Health	3
MCB 405	Virology	4
MCB 406	Microbial Genetics	3
MCB 416	Microbial Physiology & Biochemistry	4

(c) Projects Supervision

Undergraduate

B.Sc. (UI) 130 (UNAAB) 8

Postgraduate

M.Sc. 96

Ph.D.

Graduated: 6

Under supervision: 4

(d) Service or Membership of Committees in the University

(a) Member of the University Senate (1995 to date)
(b) Member, Senate Curriculum Committee (1996 to 2004)
(c) Member, Senate Development Committee (July 1999-Date)
(d) Member, Senate Telephone Committee (July 1998-July 2001)
(e) Member, University Housing Allocating Committee (July 1997- July 2006)
(f) Member, University Vision Committee (August 2000 – September 2001)
(g) Senate Representative, Board of the International School, University of Ibadan (July 1999 – July 2005).
(h) Member, Faculty Publications Committee (August 1995 – July 1996)
(i) Member, Faculty Finance Committee (August 2005 – July 2008)
(j) Departmental Coordinator, Students Industrial Work Experience Scheme (1996/97 – 1998/99).
(k) Coordinator, Microbiology Programme Unit, Dept of Botany & Microbiology (September 1997 to October 2006)).
(l) Chairman, Academic Staff Union of Universities, UI Branch (02 March 1998 – 02 September 2002).
(m) National Treasurer, Academic Staff Union of Universities (14 April 2004 – 15 April 2006).

IX. **Research**

(a) Completed

(i) Selection of starter cultures for improved production and preservation of various African fermented and convenience foods (1997 – 2004).

Most African fermented foods are normally produced through spontaneous fermentation by an array of microorganisms and to a very good extent, this limits both the quality as well as the shelf life of such products. It was therefore,

considered necessary to isolate the organisms in the various foods, subject each to the fermentation procedures as to determine which will bring the required improvement. It suffices to mention that concentration of the work was more on the lactics because of the various antimicrobials that they produce. Thus very good starters were obtained for *Ugba, Wara and Owoh*.

Good starter cultures especially the lactics were utilized for various preservative procedures and in the processing of some foods e.g. *Sour maize bread, Tsire* while some were incorporated as probiotics in some other ones e.g. *ogi*. Further work is going on to perfect this particular approach to food preservation and processing.

(ii) Studies on the isolation and characterization of enzymes for the degradation of various polysaccharides in lignocellulosic by-products.

This work which started in 2001 involves the initial isolation and identification to molecular level of the array of organisms involved in the biodegradation of high lignin-containing economic wood species within the tropical rainforest. This will be followed by the isolation of both the extracellular and intracellular enzymes that break down the various bonds linking the intertwined conglomeration of sugars. Continuous follow up of the sugar residues at different time intervals will be undertaken while both the enzymic and non-enzymic proteins will be separated and characterized using modern techniques.

(b) In progress

(i) Ferulic acid content and its utilization by different organisms in high-fibre, non- starch biopolymers.

Various biopolymers which are not easily biodegraded by different organisms cause a lot of nuisance to man's environment. The inability of most organisms to degrade them is due to the presence of some inorganic acids such as ferulic and coumaric acids which interspersed the network of 6-Cs, 5-Carbons and 7-Carbons, all linked together by different polar bonds in β 1,4- and 1,6- combinations. Hence, very few organisms could break them down. The current work assesses the content and characterizes the mode of utilization of both ferulic and coumaric acids by different starters.

(ii) Production and characteristics of ethanol from fermentation of cocoa pod and its hydrolysate by a mycotic consortium.

With the ever increasing cost of fossil fuel both locally and internationally, it become imperative to seek other means of powering various processes both biological and mechanical. Hence the focus on the development of ethanol and other biofuels from cheap agricultural wastes littering our environment. Cocoa pod, a by-product of the cocoa industry is readily available in large quantity. Trials are being made in its conversion through use of resident starters to readily-available biomaterials especially ethanol. Effort is also being made to optimize the process conditions for the production of any recovered bioproduct.

(c) Dissertation and Thesis

1. Extracellular alpha-amylase produced by *B. theobromae* Pat. B.Sc. Dissertation, June 1979, University of Ife, Ile-Ife, NIGERIA.
2. Proteases involved in the spoilage of tomato fruits (*Lycopersicon esculentum* Mill.) by *A. niger*. M.Sc. Thesis, October 1981, University of Ife, Ile-Ife, NIGERIA.
3. Production, characterization and utilization of dietary fibre-degrading enzymes as additives in broiler diets. Ph.D. Thesis, June 1994, University of Ibadan, Ibadan, NIGERIA.

X. Publications

(a) Books already published Nil

(b) Chapters in Books already published
Nil

©Articles that have already appeared in Refereed Conference Proceedings
Nil

(d) Patents
Nil

(e) Articles that have already appeared in learned journals

1. Bukola C. Adebayo-Tayo and **Abiodun A. Onilude** (2010) Comparative influence of medium composition on biomass growth, lactic acid and Exopolysaccharides production by some Strains of Lactic Acid Bacteria. *Internet Journal of Microbiology Vol. **7**, No. 2:*

2. Wakil, Sherifah Monilola and **Onilude, Abiodun Anthony** (2010). Monitoring the effect of fortification on bacterial population dynamics in malted and fermented maize-based weaning foods using PCR-DGGE. *Journal of Applied Biosciences* **26**: 1604-1613.

3. Olusegun A. Olaoye and **Abiodun A. Onilude** (2010). Investigation on the potential application of biological agents in the extension of shelf life of fresh beef in Nigeria. *World Journal of Microbiology and Biotechnology* **26**: 1445 – 1454.

4. Mohammed Inuwa Ja'afaru and **Abiodun Anthony Onilude** (2010). Comparative Hydrolytic Properties of Culture Filtrate of *Trichoderma viride* Fd18 and *Aspergillus Ustus* Fd12 on Lignocellulosic Substrates. *Journal of Pure and Applied Microbiology* Volume **4**, (No. 2): 497-505*)*

4. **A. A.Onilude**, R. O. Igbinadolor and S. M.Wakil (2010). Effect of varying relative humidity on the racidity of cashew (*Anacardium occidentale* L.) kernel oil by lipolytic organisms. *African Journal of Biotechnology* Vol. **9**(31): 4890 – 4896.

5. B. C Adebayo-Tayo, **A. A. Onilude** and A. U. Joe (2011), Efficacy of formulated media on production of bio-molecules by some selected EPS-producing lactic acid bacteria strains. *Electronic Journal of Environmental, Agricultural and Food Chemistry* Vol. **10**(1): 1837 – 1847.

6. A. A. Onilude, R. O. Igbinadolor and S. M. Wakil (2011). Effect of time and relative humidity on the microbial load and physical quality of cashew nuts *(Anacardium occidentale* L) under storage. *African Journal of Microbiology Research* Vol. **4**(19)

7. Abiodun A. Onilude, Ilesanmi, F. Fadahunsi, Emmanuel O. Garuba (2011). Inulinase production by *Saccharomyces* sp. In solid state fermentation using wheat bran as substrate. *Annals of Microbiology*

8. S. M. Wakil, M. T. Dada and **A. A. Onilude** (2011). Isolation and characterization of keratinase-producing bacteria from poultry waste. *Journal of Pure and Applied Microbiology* Vol. **5**(2): 567- 580.

9. Abimbola Adetokunboh Owoseni and **Abiodun Anthony Onilude** (2011). Antibiotic sensitivity and Sequence Amplification patterns of genes in multidrug resistant enterobacteria isolates from processed foods in some West African countries. *Polish Journal of Microbiology* Vol. **60**(4): 309 – 316.

(f)Books, Chapters in Books and Articles already accepted for Publication

Nil

(g) Technical Reports and Monographs Nil

XI. Major Conferences Attended with Papers Read **(in the last 2 years)**

(i). Society for Applied Microbiology Annual Conference, Dublin, 8-11 June 2010

(ii) Society for Industrial Microbiology RAFT X Conference, Marco Island, USA 9- 12 November, 2011

Signature & Date

ONILUDE, A. A. Ph.D