

### BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.  
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Anthony O. Okorodudu		POSITION TITLE Professor	
eRA COMMONS USER NAME (credential, e.g., agency login)			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Rutger's, Stae University of NJ, Newark, NJ	B.A.	08/77	Biological Sciences
U. of Medicine & Dentistry of NJ, Newark, NJ	Ph.D.	05/82	Pathology
Houston Baptist University	M.S.	05/97	Mgmt, Computing
Jones Graduate School, Houston	MBA	05/07	Business Administration
Hartford Hospital, Hartford, CT		12/88	Post-doc fellowship

Please refer to the application instructions in order to complete sections A, B, C, and D of the Biographical Sketch.

A. Personal statement briefly describing why your experience and qualifications make you particularly well-suited for your role in the project that is the subject of the application: N/A

B. Positions and Honors:

Positions and Employment:

- 1982 – 1986 Adjunct Lecturer, Department of Biochemistry, University of Benin, Nigeria
- 1982 – 1986 Lecturer I, Department of Chemical Pathology, University of Benin, Nigeria
- 1984 – 1985 Visiting Scientist, Dermatopathology Laboratory, Department of Pathology, New Jersey Medical School, Newark, NJ
- 1986 – 1988 Fellow and Clinical Chemist in Immunochemistry, Clinical Chemistry Division, Hartford Hospital, Hartford, CT
- 1989 – 1990 Affiliate Medical Staff, Department of Pathology, Medical Center Hospital, Bexar County Hospital District, San Antonio, TX
- 1989 – 1990 Assistant Professor, Clinical Chemistry, Medical Technology Program, and Department of Pathology, University of Texas Health Science Center at San Antonio, TX
- 1990 – 1996 Associate Director, Division of Clinical Chemistry, Department of Pathology, University of Texas Medical Branch, Galveston
- 2000 - 1996 Assistant Professor of Pathology, Department of Pathology, University of Texas Medical Branch, Galveston
- 1990 – 1999 Director, Pathology Toxicology Laboratory (Substance Abuse and Mental Health Service Administration certified forensic toxicology laboratory), Department of Pathology, University of Texas Medical Branch, Galveston
- 1991 - Present Member of Medical Staff, University of Texas Medical Branch Hospital, Galveston
- 1991 - Present Director, Postdoctoral Training Program in Clinical Chemistry, Department of Pathology, University of Texas Medical Branch, Galveston
- 1993 – Present Director, Pathology Outreach Laboratories, Department of Pathology, University of Texas Medical Branch, Galveston
- 1995 – Present Director, University of Texas Medical Branch, Correctional Managed Care Laboratories, Department of Pathology, University of Texas Medical Branch, Galveston
- 1996 – Present Director, Division of Clinical Chemistry, Department of Pathology, University of Texas Medical Branch, Galveston

1996 – 2001 Associate Professor, Department of Pathology, University of Texas Medical Branch, Galveston

1999 – Present Director, Client Services, Department of Pathology, University of Texas Medical Branch, Galveston

2001 – Present Professor, Department of Pathology, University of Texas Medical Branch, Galveston

Honors:

1974 - 1975 Tuition Scholarship, Appalachian State University, Boone, NC

1975 – 1976 Chemistry Academic Award, Appalachian State University, Boone, NC

1977 – 1978 Cornwall Scholarship, University of Medicine and Dentistry of New Jersey, Newark, NJ

1979 – 1982 Doctoral Fellowship, University of Medicine and Dentistry of New Jersey, Newark, NJ

1985 Nominated in 1985 to represent Nigeria in Geneva, Switzerland at an International Meeting for Biotechnology and Biosafety, Federal Ministry of Science and Technology, Lagos, Nigeria

1988, 1990 Nominee for the award of Outstanding Scientific, Achievement by a Young Investigator, Connecticut Valley Section, American Association for Clinical Chemistry

1992 Recipient of the 1991-92 Faculty Teaching Award, Department of Pathology, University of Texas Medical Branch, Galveston, TX

1994 Chairman's Award, Texas Section, American Association for Clinical Chemistry

1996 Past Chairman's Award, Texas Section, American Association for Clinical Chemistry

1999 Outstanding Clinical Chemist Award for 1999, Texas Section of the American Association for Clinical Chemistry

2001 Distinguished Alumni Award, Graduate School of Biomedical Science, University of Medicine & Dentistry of New Jersey

2001 National Role Model Alumnus Award, Minority Access, Inc., Washington, DC

2002 International Travel Fellowship, American Association for Clinical Chemistry

C. Peer-reviewed Publications:

1. Ben Rayana MC, Burnett RW, Covington AK, D'Orazio P, Fogh-Andersen N, Jacobs E, Kulpmann WR, Kuwa K, Larsson L, Lewenstam A, Maas AH, Mager G, Naskalski JH, **Okorodudu AO**, Ritter C, St John A. IFCC guideline for sampling, measuring and reporting Ionized magnesium in Plasma International Federation of Clinical Chemistry and Laboratory Medicine (IFCC): IFCC Scientific Division, Committee on Point of Care Testing. Clin Chem Lab Med.46 (1):21-26, 2008.
2. Ebose JE, Campbell AA, **Okorodudu AO**. Electrolytes and pH changes in pre-eclamptic rats. Clinica Chimica Acta 384: 135-140, 2007.
3. Oladipo OO, Afolabi BB, **Okorodudu AO**. Plasma total and ultrafiltrable calcium in normal pregnancy, hypertension in pregnancy and pre-eclampsia. Niger Postgrad Med J. 14(3):213-216, 2007.
4. Salinas G, Daher IN, **Okorodudu AO**, Ahmad M: B-type natriuretic peptide Is not a marker of ischemia during dobutamine stress echocardiography. J Am Soc Echocardiogr. 20(1):23-26, 2007.
5. Tacker DH, Herzog NK, **Okorodudu AO**. Cocaethylene affects human microvascular endothelial cell p38 mitogen-activated protein kinase activation and Nuclear factor-Kappa B DNA-binding activity. Clin Chem 52(10): 1926-1933, 2006.
6. Ben Rayana MC, Burnett RW, Covington AK, D'Orazio P, Fogh-Andersen N, Jacobs E, kategory R, Kulpmann WR, Kuwa K, Larsson L, Lewenstam A, Maas AH, Mager G, Naskalski JH, **Okorodudu AO**, Ritter C, St John A. Recommendation for measuring and reporting chloride by ISEs in undiluted serum, plasma or blood. International Federation of Clinical Chemistry and Laboratory Medicine (IFCC): IFCC Scientific Division, Committee on Point of Care Testing and Working Group on Selective Electrodes. Clin Chem Lab Med. 44(3):346-352, 2006.

7. D'Orazio P, Burnett RW, Fogh-Andersen N, Jacobs E, Kuwa K, Kulpmann WR, Larsson L, Lewenstam A, Maas AH, Mager G, Naskalski JW, **Okorodudu AO**. Approved IFCC recommendation on reporting results for blood glucose: International Federation of Clinical Chemistry and Laboratory Medicine Scientific Division, Working Group on Selective Electrodes and Point-of-Care Testing (IFCC-SD-WG-SEPOCT). Clin Chem Lab Med. 44(12):1486-90, 2006.
8. Ben Rayana MC, Burnett RW, Covington AK, D'Orazio P, Fogh-Andersen N, Jacobs E, Kulpmann WR, Kuwa K, Larsson L, Lewenstam A, Maas AH, Mager G, Naskalski JH, **Okorodudu AO**, Ritter C, St John A. guidelines for sampling, measuring and reporting ionized magnesium in undiluted serum, plasma or blood: International Federation of Clinical Chemistry and Laboratory Medicine (IFCC): IFCC Scientific Division, Committee on Point of Care Testing. Clin Chem Lab Med. 43 (5):564-569, 2005.
9. Onifade KU, Mohammad AA, Petersen JR, **Okorodudu AO**. Ionized calcium: Indications and advantages of its measurement. J. Lab Med; 29(4):235-240, 2005.
10. D'Orazio P, Burnett RW, Fogh-Andersen N, Jacobs E, Kuwa K, Kulpmann WR, Larsson L, Lewenstam A, Maas AHJ, Mager G, Naskalski JW, **Okorodudu AO**. Approved IFCC recommendation on reporting results for blood glucose: International Federation of Clinical Chemistry and Laboratory Medicine (IFCC): IFCC Scientific Division, Committee on Point of Care Testing. Clin Chem 51:1573-1576, 2005.
11. Tacker DPH, **Okorodudu AO**. Evidence for injurious effect of cocaethylene in human microvascular endothelial cells. Clinica Chimica Acta 345(1-2): 69-77, 2004.
12. Ajayi AA, Ogungbade GO, **Okorodudu AO**. Sex hormone regulation of systemic endothelial and renal microvascular reactivity in Type-2 diabetes: Studies in gonadectomized and sham-operated Zucker diabetic rats. European Journal of Clinical Investigation 34:349-357, 2004.
13. Wu J, Petersen JR, Mohammad AA, **Okorodudu AO**. Evaluation of stat-site MHgb reflectance meter using hemosite for POC hemoglobin measurement. Point of Care 2(1):8-11, 2003.
14. Petersen JR, **Okorodudu AO**, Mohammad AA, Payne DA. Capillary electrophoresis and its application in the clinical laboratory. Clin Chim Acta. 330 (1-2):1-30, 2003.
15. Glew RH, Kassam HA, Bhanji RA, **Okorodudu AO**, VanderJagt DJ. Serum lipid profiles and risk of cardiovascular disease in three different male populations in northern Nigeria. J Health, Population and Nutrition. 20(2):166-74, 2002.

D. Research Support (for the past three years):

I am the principal investigator and/or project lead for all the current research and research/development activities in my group. The overall goal is to validate diagnostic clinical laboratory analyzers for use in patient care testing.

Current:

- |           |   |
|-----------|---|
| 2009 – on | Roche Diagnostic Corporation<br>ACCU-CHEK Aviva and ACC-CHEK Advantage Neonatal Blood Evaluation<br>L9040-09-2; Principal Investigator  |
| 2009 – on | Roche Diagnostic Corporation<br>Design Validation: ACCU-CHEK Inform II and ACCU-CHEK Performa Neonatal Blood<br>Evaluation Using the Performa test Strip<br>40-09-1; Principal Investigator |

Program Director/Principal Investigator (Last, First, Middle):

- 2009 – on Roche Diagnostic Corporation  
ACCU-CHEK® Inform II Neonatal Blood Evaluation Using the Freedom (7 mm) Test Strip and Performa Test Strip  
D3086-08-5; Principal Investigator
- 2009 – on Roche Diagnostic Corporation  
ACCU-CHEK® Inform II Arterial Blood Evaluation Using the Freedom (7 mm) Test Strip  
D3086-08-6 (D3086-09-1); Principal Investigator
- 2008 – on Roche Diagnostic Corporation  
Freedom 9 mm (ACCU-CHEK® Aviva) Glucose Monitoring System Newborn/Neonatal Hospital Evaluation  
D6032-08-7; Principal Investigator
- 2008 – on Roche Diagnostic Corporation  
Freedom9 mm (ACCU-CHEK® Aviva) Glucose Monitoring System Newborn/Neonatal Hospital Evaluation  
D6032-08-17; Principal Investigator
- 2008 – on Roche Diagnostic Corporation  
Freedom 9 mm (ACCU-CHEK® Aviva) Glucose Monitoring System Newborn/Neonate Cord Blood Hospital Evaluation  
D6032-08-8; Principal Investigator
- 2008 – on Roche Diagnostic Corporation  
Freedom 7 mm (ACCU-CHEK® Performa) Glucose Monitoring System Newborn/Neonate Cord Blood Hospital Evaluation  
D6032-08-18; Principal Investigator
- 2008 – on Roche Diagnostic Corporation  
Freedom9 mm (ACCU-CHEK® Aviva) Glucose Monitoring System Venous Whole Blood Hospital Evaluation  
D6032-08-15; Principal Investigator
- 2008 – on Ortho-Clinical Diagnostics (Johnson & Johnson Company)  
VITROS Fusion Integrated/Fusion Immunodiagnostic System (5600): VITROS Fusion Systems Method Comparison Test Plan, External Validation Test  
Principal Investigator
- 2008 – on Siemens Healthcare Diagnostics  
Validation of the CENTAUR SHBG Assay using the ADVIA Centaur System  
Protocol Number: CTB-Centaur-200606.Pro.0  
Principal Investigator
- 2007 – on Instrumentation Laboratory  
Protocol and Requirements for Pre-Alpha Testing of Total Bilirubin  
Principal Investigator
- 2007 – on Siemens Medical Solutions Diagnostics  
CMV/Toxo study
- Completed:
- 2002 – 2007 National Institute of Health  
Fatty Acid Ethyl Esters in Ethanol-induced Pancreatitis  
Co-investigator; Principal Investigator: B.S. Kaphalia
- 2005 – 2006 Ortho-Clinical Diagnostics (Johnson & Johnson Company)  
Ortho VITROS 5,1 FS Chemistry System External Evaluation Test – a performance evaluation of new diagnostic assays (Wave II MicroTip)  
Principal Investigator

Program Director/Principal Investigator (Last, First, Middle):