

RODERICK L. ROLLE, M.S., Ph.D.

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ADDRESSES:

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EDUCATION:

1997 Florida A & M University-Tallahassee
B.S., Major: Biology/Minor: Chemistry

2000 Florida A & M University-Tallahassee
M.S., Cellular and Molecular Biology; GPA-3.72

2004 Tennessee State University-Nashville
Ph. D., Biological Sciences specializing in Microbial Genetics; GPA-3.963

POSITION AND EMPLOYMENT

- 2020 - current Clinical Lab Director for Shepard Health LLC, 8601 Dunwoody Place,
Suite 338 Sandy Springs GA 30350
- 2020 Clinical Lab Director for Holistica Medical LLC, 2550 windy Hill Rd SE
Marietta GA 30067 (CLIA#11D2156428)
- 2020 Clinical Lab Director for Back to Life Medical Group LLC, 557
Riverstone Parkway, Canton, Ga 30114 (CLIA#11D2017911)
- 2019-2020 Clinical Lab Director for Premier Pain, 5710 Oleander Drive, Wilmington
NC 28403 (CLIA#34D2166587)
- 2018 Clinical Lab Director for Pope Medical Associates, 172 W. Independence
Blvd, Mt. Airy NC 27030 (CLIA#34D2110956)
- 2018 Clinical Lab Director for Justis Group of Edenton, 924 Main St. Suite 300,
North Wilkesboro NC 28659 (CLIA#34D2105473)
- 2017-2020 Clinical Lab Director for Non-Surgical Orthopaedics, 335 Roselane street
NW Marietta Georgia 30060 (CLIA#11D2080207)
- 2017-2020 Clinical Lab Director for Coastal Southeastern United Care, 3640 Express
Drive Shallotte, NC 28459 (CLIA#34D2078530)
- 8/2016- Florida Gulf Coast University, *Professor*, 10501 FGCU Blvd S. Ft. Myers,
Fl. 33965
- 11/2017- Clinical lab Director with the Department of Health
8/15-2016 Keiser University, *Adjunct professor*, 1700 Halstead Boulevard,
Tallahassee, Fl. 32309
- 8/14-6/15 Marion County Schools, *Dual enrollment professor* for West Port High
School/College of Central Florida, 512 S.E. 3rd St., Ocala Fl. 34471
- 12/13 - 8/14 ANRIAL labs, Technician, 11205 Alpharetta Hwy, Roswell, Ga. 30076

- 6/13 - 12/13 Keiser University, Biomedical Program Director, 5600 Lake Underhill Rd. Orlando, Fl. 32807
- 12/12- 6/13 Research Assistant at Florida A&M University College of Pharmacy and Pharmaceutical Sciences, MLK Blvd. Tallahassee Fl. 32310
- 5/1/11-12/12 ANRIAL labs, Technician, 11205 Alpharetta Hwy, Roswell, Ga. 30076
- 2006- 2011 Visiting Assistant Professor in the Biology department at Florida A&M University
- 2005-2006 Postdoctoral Fellow at Florida A & M University
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- 1993-2016 Personal Fitness Trainer at FAMU, TSU & Gold's Gyms
- 2004-Fall *Graduate Assistant*, Tennessee State University, 3500 John A. Merritt Blvd Nashville Tennessee 37209-1561, Biological Sciences Department
- 2003-2004 *Graduate Teaching Fellow*, Vanderbilt University Nashville Tennessee 37209
- 2003-Spring *Adjunct Instructor*, Nashville State Technical Community College, 120 White Bridge Road Nashville Tennessee 37209 Biology Department
- 2002-Fall *Adjunct Instructor*, Tennessee State University, 3500 John A. Merritt Blvd. Nashville, Tennessee 37209-1561, Biophysical Science
- 2001-2002 *Adjunct Instructor*, Volunteer State Community College, Gallatin, Tennessee 37066 Anatomy Department
- 2000-2003 *Graduate Assistant*, Tennessee State University, 3500 John A. Merritt Blvd. Nashville, Tennessee 37209-1561, Biological Sciences Department
- 2000 *Adjunct Instructor*, Florida A & M University, Tallahassee Florida 32307-3100 Biological Science Department
- 1998-1999 *Graduate Fellowship*, Florida A & M University, Tallahassee Florida 32307-3100 (Dr. Eric Toran's Laboratory)
- 1998-1999 *Graduate Assistant*, Florida A & M University, Tallahassee Florida 32307-3100 (Dr. Eric Toran's Laboratory)

COUTINUNG EDUCATION

Year	Semester	Course	Credit	University
2014	Fall	Basic Medical Anatomy	3	University of South Florida
2019	Summer	Fundamentals of Medical Physiology	1	University of Florida
2019	Summer	Medical Gastrointestinal Physiology	2	University of Florida
2019	Fall	Cardiology and Muscle Physiology	W	University of Florida

Year	Semester	Course (Florida CE Broker/P.A.C.E.)	Contact
2018	Spring	HIV/AIDs – Infection Control	1
2018	Spring	Laws and Rules of Florida: Clinical Lab Update	1
2018	Spring	Medicare and Medicaid-Differences and Similarities for Florida Health Care Professionals	1
2018	Spring	Electrophoresis	1.5

2018	Spring	Medical errors	2
2018	Spring	Reading and Reporting Gram stained direct smears	1.5
2018	Spring	Real-Time PCR	1.5
2018	Spring	Immune Principles of Vaccination	1.5
2018	Spring	Administration and Supervision for clinical Laboratory Personnel	1
2018	Spring	Review of Malaria	1
2018	Spring	Mass Spectrometry and its role in Clinical diagnostics	1
2018	Spring	Opioid use disorders, Medication-assisted treatment, and the Role of the laboratory	1
2018	Spring	Drug metabolism	2
2018	Spring	Introduction to Basic Immunology	2
2018	Spring	What is a genome	2
2018	Spring	Sexually transmitted disease	3
2020	Spring	Medical errors	2
2020	Spring	Maintaining compliance with Point-of-Care testing	1
2020	Spring	HIV safety for Florida clinical Laboratory Personnel	1
2020	Spring	The Toxicology Laboratory's role in pain management: Testing for Opiates	2
2020	Spring	Therapeutic Drug Monitoring and Pharmacogenomics	1.5
2020	Spring	Laws and Rules of Florida Board of Clinical Laboratory Personnel	1
2020	Spring	Drug testing methods in the clinical toxicology laboratory	1.5
2020	Spring	Quality control	2
2020	Spring	Proficiency test handling and communication	2
2020	Spring	Drug-Resistant Superbug, Multi-drug resistant organisms: MRSA, VRE, Clostridium difficile, and CRE	2.5
2020	Spring	Molecular methods in clinical microbiology	1.5
2021	Fall	Microbiology/Mycology/Parasitology	1
2021	Fall	General	11
2021	Fall	Molecular Pathology	1
2021	Fall	Clinical Chemistry/UA/Toxicology	1
2021	Fall	Histology	1
2021	Fall	Hematology	1
2021	Fall	Immunohematology	1
2021	Fall	Blood banking	1
2021	Fall	Serology/Immunology	1
2021	Fall	HIV/AIDS	1
2021	Fall	Medical Errors	2
2021	Fall	Laws and Rules of the Board	1

College Teaching Experience

Year	Spring Semester	Fall Semester
1998	General Biology I lab General Biology II lab	General Biology I lab General Biology II lab
1999	General Biology I lab General Biology II lab	Biological Science lecture 2 General Biology I labs
2000	2 Biological Science lectures	General Biology I lab General Biology II lab
2001	2 General Biology II labs	Cell Biology lab

2002	Anatomy & Physiology I lecture 2 Anatomy Lab Genetics lab	Anatomy & Physiology I lecture 2 Anatomy Lab Biophysical Science I lecture Biophysical Science I lab
2003	General Biology I lecture General Biology I lab Biological Science I lab	6 th grade Math & Science 7 th grade Math & Science
2004	6 th grade Math & Science 7 th grade Math & Science	General Biology II lab
2005		General Biology I lecture Biological Science I lab
2006	General Biology I lecture Anatomy & Physiology I lab	
2007	Anatomy & Physiology I lec/lab Biological Science	Microbiology lecture/lab Anatomy & Physiology I lab
2008	Microbiology lecture/lab Anatomy & Physiology I lab	Microbiology lecture/lab Anatomy & Physiology I lab Biological Sciences lecture
2009	Microbiology lecture/lab Anatomy & Physiology I lab Nursing Microbiology lecture/lab	Microbiology lecture/lab Anatomy & Physiology I lab Biological Science lecture/lab
2010	Microbiology lecture/lab Anatomy & Physiology I lab	Anatomy & Physiology I lab Biology I Lab
2011	Anatomy & Physiology II lab Biological Science I lab Anatomy & Physiology I lecture	
2013		Forensic Anthropology Biology I lec/lab Biological Evidence in Forensics lab/lec Biology 2 lecture Nursing Microbiology lab/lec Biology 2 lab/lec
2014		Biology 1 Biological science
2015	Biology 1 Biological science	Microbiology
2016	Microbiology	Biology
2017	Biology	Biology
2018	Biology	Biology Microbiology
2019	Biology	Biology Microbiology

2020	Biology Microbiology	Biology
2021	Microbiology	Biological sciences
2022	Biology II Microbiology	Biology I Biology II

ACADEMIC AWARDS/FELLOWSHIP/HONORS/CERTIFICATES

- 2017- Current Clinical Laboratory Director, Georgia Department of Community Health, License #18018SP
- 2016- Current Clinical Laboratory Director, Florida Department of Health, License #DI47791
- 2015-Current National Registry of Certified Chemist (Toxicological Chemist) Registrant #4189
- 2012-2015 Florida Temporary Teacher Certification for Biology grades 6 – 12
- 2005 FAMU Research Forum
- 2003 25th Annual University Research Symposium (Appreciation award)
- 2003-2004 Awarded a Graduate Teaching Fellowship through Vanderbilt University, paid for by the National Science Foundation
- 2002 24th Annual University Research Symposium (Recognition award)
- 2000 FAMU Trio Program (Appreciation award)
- 1998-1999 Awarded the Delores A. Auzenne Fellowship

PROFESSIONAL AFFILIATIONS

- Current **Member**, The American Society for Microbiology (ASM)
- 2002-2005 **Student/Postdoc Member**, The American Society for Microbiology (ASM)
- 2007-2009 American Association of Fitness Professional (AAFP)
- 2007 HBCU-RISE Junior faculty award to train 3 undergraduate students
- 2009 **Full Member**, The American Society for Microbiology (ASM)
- 2011 National Science Teacher Association (NSTA), current member

ABSTRACT/POSTERS PUBLICATIONS

- 1. Roderick L. Rolle**, Ashlie Martin*. An Extensive Survey of Subspecies of *Bacillus thuringiensis* Collected from the Tennessee Area. The 109th American Society for Microbiology, Poster #751 (May 16, 2009) *Presenter
- 2. Roderick L. Rolle**, Ashlie Martin*. An Extensive Survey of Subspecies of *Bacillus thuringiensis* Collected from the Tennessee Area. The 16th Annual FGLSAMP Expo Poster #117 (February 27, 2009) *Presenter

3. Roderick L. Rolle, Ashlie Martin*. An Extensive Survey of Subspecies of *Bacillus thuringiensis* Collected from the Tennessee Area. The Graduate Science Research Forum Poster #41 (October 17, 2008) *Presenter

4. Roderick L. Rolle, Anthony O. Ejiofor, and Terrance L. Johnson. Determination of the plasmid sizes and location of δ -endotoxin genes of *Bacillus thuringiensis* by Pulse Field Gel Electrophoresis. The 104th American Society for Microbiology, H-112 (May 23-27, 2004)

5. R. L. Rolle, A. O. Ejiofor, T. L. Johnson. Comparative Analysis of the Crystal Proteins of *Bacillus thuringiensis* Subspecies Isolated from Middle Tennessee. The 103rd American Society for Microbiology, N-263 (May 18-22, 2003)

6. R. L. Rolle, A. O. Ejiofor, T. L. Johnson. Plasmid Profiles of Crystalliferous *Bacillus thuringiensis* Isolated from Soil and Granaries in Middle Tennessee. The 102nd American Society for Microbiology, H-139 (May 19-23, 2002)

PAPER PUBLICATIONS

7. Roderick L. Rolle. Virtual lecture supplement for General Biology II. July 15, 2022. Published August 1, 2022, between Tophatmonocle Corp. 151 Bloor Street West Suite 200 Toronto, Ontario M5S 1S4 Canada. Manuscript ISBN: 978-1-77494-861-3

8. Roderick L. Rolle. Virtual Lab Exercises for Microbiology MCB 2010, Published November 11, 2020, between bluedoor, LLC. 10949 Bren Road East, Minneapolis, MN 55343. Manuscript ISBN: 978-1-64386-856-1

9. Roderick L. Rolle. Virtual Lab Exercises for General Biology BSC 1010, Published May 28, 2020, between bluedoor, LLC. 10949 Bren Road East, Minneapolis, MN 55343. Manuscript ISBN: 978-1-64386-598-0

10. Roderick L. Rolle. An extensive characterization study of different *Bacillus thuringiensis* stains collected from the Nashville Tennessee area. July 31, 2013 African Journal of Biotechnology v12

11. Roderick L. Rolle. Microbiology lecture audio notes. Certificate of Registration with the United State Copyright Office, Registration number SR 638-957. June 24, 2009

12. Roderick L. Rolle, Anthony O. Ejiofor, Terrance L. Johnson. Determination of the plasmid size and location of δ -endotoxin genes of *Bacillus thuringiensis* by pulse field gel electrophoresis. (2005) African Journal of Biotechnology v4

13. Roderick L. Rolle. Proteinaceous and genomic characterization of *Bacillus thuringiensis* isolates collected in the Tennessee geographical region. (2004) E-research@ Tennessee State University

14. Roderick L. Rolle. Molecular Analysis of Heat Shock Protein Involvement with the Aryl Hydrocarbon Receptor. (1999) FAMU

Oral Presentation

15. Roderick L. Rolle, Donald Palm. Alterations in Cystatin C and lysosomal proteases following 6-ODHA exposure. FAMU Student Research Forum (October 18, 2005)

16. Roderick L. Rolle, Anthony Ejiofor, Terrance Johnson. A Molecular approach looking at the distribution of *Bacillus thuringiensis* subspecies taken from the Middle Tennessee area. The 25th Annual University-Wide Research Symposium, E4 (March 24-27, 2003)

17. Roderick L. Rolle, Anthony Ejiofor, Terrance Johnson. The Genoprints of isolated *Bacillus thuringiensis* subspecies taken from the Middle Tennessee area. The 24th Annual University-Wide Research Symposium, B6 (March 19-20, 2002)

Laboratory techniques acquired

General Laboratory

- Pipette
- Weigh
- Sterilize
- Filtrate
- Titrate
- Wash/Clean glassware
- Prepare media
- Practice sterile techniques
- Analytical Balance

Histology

- Routine frozen sections of whole animal brains
- Cell and fiber stains
- Perfusions of animals
- Staining processes
- Embedding processes: paraffin

Bacteriology

- Maintain and purify: bacteria, cell culture
- Tissue culture
- Culture transfers
- Inoculation
- Prepare media
- Pour plates

- Plasmid amplification
- Bacterial transformation
- Plasmid DNA isolation and purification

Biochemistry/Genetics

- Purify and characterize enzymes
- Determinations: RNA, protein, nucleic acid, phosphate and others
- Gradients: density, equilibrium, etc.
- Assays: enzyme, blood coagulation factors, ELISA, and other (biochemical) assays
- Spectrophotometers: UV, visible light
- Electrophoresis: immune, acrylamide gel, agarose, paper
- Chromatography: paper, thin layer
- Column: ion exchange resins, gel, gas liquid, HPLC
- Immunoprecipitation techniques
- Analyze peptides
- Manipulate DNA
- Extract phenols from DNA
- Equilibrium sedimentation centrifugation
- Mutagenesis
- Test for mutations
- Cell fractionation
- Conjugation
- Breed and maintain a population of drosophila
- Prepare and identify mutants with mutagenic chemicals

Laboratory/Research Instruments

- Bright Field, Confocal, Fluorescence Microscopy
- Autoanalyzer
- Microburette
- pH meter
- Centrifuges: standard, high, Ultra speed
- Incubators
- Dark room equipment
- Precision balance
- Volumetric glassware
- Oscilloscopes
- Blood gas analyzer
- Microtomes: paraffin
- Indiko plus analyzer

Molecular

- RNA extraction (Aurum kit)
- PCR (Biorad C1000 series)
- Reverse transcription PCR
- Qualitative PCR (Applied Biosystem 7300 series)

- Qualitative PCR (My iQ by BioRad)
- Nanodrop spectrophotometer quantification (Thermo Fisher)
- RNA Quality using Agilent 2100 Bioanalyzer
- Gene knockout
- Calcium chloride transformation
- Synthesis of cDNA
- Taqman gene expression assay

Other Skills or Relevant Experience

- Data processing
- Laboratory
- Statistical analysis
- Programming skills
- Database skills