

CURRICULUM VITAE

David Kurt Lirette Ph.D., M.S., MT (ASCP)
25388 Gliderport Road
Loranger, LA 70446

Education

- 1998- 2004** Doctor of Philosophy
Department of Pathology
Louisiana State University Medical Center
New Orleans, LA 70112
gpa 4.00
Dissertation title: Distribution and Redistribution of Flunitrazepam
and Metabolite in a Porcine Model
- 1995-1998** Masters of Science
Department of Pathology
Louisiana State University Medical Center
New Orleans, LA 70112
gpa 4.00
Thesis title: The Effects of Free Radicals in Tobacco Smoke
on Human Lung Parenchymal Tissue;
a Study by
Gas Chromatography/Mass Spectrometry
- 1994-1995** Graduate Studies
Biology Department
University of New Orleans
New Orleans, LA 70148
gpa 4.00
- 1979-1980** Medical Technologist
Department of Allied Health Sciences
Alton Ochsner Medical Foundation
Jefferson, LA 70121

Class president
- 1975-1976** Graduate Studies
Department of Anatomy
Louisiana State University Medical Center
New Orleans, LA 70112
- 1971-1975** B.S. Pre-medical Biology, Chemistry minor
Department of Life Sciences and Technology
Nicholls State University
Thibodaux, LA 70310

Continuing Education

Collaborative Institutional Training Initiative (citiprogram.org)

Biomedical Research - Basic/Refresher Stage 1. Basic Course (Ref #: 2353878)

Required Modules	Date Completed	Score %
Louisiana State University Health Sciences Center - New Orleans	01/08/09	N/A
History and Ethical Principles	12/10/08	86
Basic Institutional Review Board (IRB) Regulations and Review Process	01/08/09	100
Informed Consent	01/08/09	100
Records-Based Research	01/12/09	100
Genetic Research in Human Populations	01/08/09	100
Research With Protected Populations - Vulnerable Subjects: An Overview	01/08/09	100
Group Harms: Research With Culturally or Medically Vulnerable Groups	01/08/09	100
FDA-Regulated Research	01/12/09	100
Conflicts of Interest in Research Involving Human Subjects	01/09/09	100
Biomedical Research Misconduct Module*	01/12/09	100
Elective Modules		
Internet Research - SBR	01/12/09	100

GCP - Drug Development GCP (Ref #: 2425117)

Louisiana State University Health Sciences Center - New Orleans	01/13/09	100
Overview of New Drug Development	01/12/09	100
International Conference on Harmonization	01/12/09	100
FDA Regulated Research and ICH	01/12/09	100
International Conference on Harmonization - Part 2	01/12/09	N/A
Investigator Obligations in FDA-Regulated Clinical Research	01/13/09	80

Elective Modules

Conducting Investigator-Initiated Studies According to FDA Regulations and Good Clinical Practices	01/13/09	100
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LSUHSC Compliance Knowledge Delivery System	Date	
Quarterly Safety Meeting Materials: Fire Extinguisher Use	01/09/09	100
Driver Safety Training	01/09/09	100

Certifications

Medical Technologist (ASCP) Reg. # 135904 (9/80)
 Associate Member of The American Society of Clinical Pathologists, 1980 to 2004

Current Employment Experience

September 2007- Present Assistant Professor
LSU Health Sciences Center
School of Public Health
Environmental and Occupational Health Sciences
New Orleans, LA

Teaching

Course director: “Principles of Environmental Toxicology”
 “Principles of Environmental Health”
 Guest lecturer: “Analytical and Forensic Toxicology”
 Developing, as course director:
 “Environmental Ecology”, “Field Studies in Environmental Ecology”,
 and “Principles of Environmental Toxicology Laboratory”

Recruitment

ENHS faculty representative on the recruitment committee September 2008-present

ENHS recruiter for Nicholls State University and LSU Baton Rouge.

Meetings attended 9/19/08
 10/3/08

Presentation at recruitment fairs

Southern University, Baton Rouge LA. 9/17/2008

Nicholls State University, Thibodaux, LA	10/14/2008
Loyola/Tulane, New Orleans, LA	10/29/2008
LSU Baton Rouge, LA	10/30/2008
LSU School of Veterinary Medicine, Baton Rouge	11/24/2008

Faculty committees

ENHS representative for faculty assembly, September 2008-present

Student consultation and mentoring

Crystal Giles, Jonathan Schoen, Syed A. Ahsan

ENHS Program Photographer

Provide images for brochures, web-site illustration, posters, and publications.

Publications in progress

Flunitrazepam and 7-aminoiflunitrazepam analysis by gas chromatography/mass spectrometry with negative chemical ionization

Distribution and redistribution of flunitrazepam and metabolite in decomposed swine

On the use of decompositional effusion fluids in forensic toxicology investigations

Swine in drug distribution/redistribution research

The use of alternative materials in postmortem flunitrazepam analyses

The effect of flunitrazepam administration on postmortem interval estimates based on diptera larva development rate

Journal articles submitted

Title: "Saddleback Caterpillars (*Sibine stimulea*)"

Journal: New England Journal of Medicine

Manuscript ID: 08-05052

Co-authored with James Diaz M.D., M.P.H., Dr.P.H. as principal author.

Submitted 6/17/2008

Rejected 6/21/2008

Articles critically reviewed

Title: "Catfish stings and the venom apparatus of the brown bullhead *Ictalurus nebulosus* (lesueur, 1819)

Journal: Medical Science Monitor

Manuscript no: 11261

Submitted 3/7/2008

Title: "Rapid analysis of plasma paraquat using sodium dithionite as a predictor of outcome in acute paraquat poisoning"

Journal: Critical Care Medicine

Manuscript no: CCM-01062-2008

Submitted: 8/11/2008

Title: "The Classification, Epidemiology, Diagnosis, Management, and Prevention of Spider Bites in Travelers"

Journal: Journal of Travel Medicine

Manuscript ID: JTM-08-125

Submitted: 10/17/2008

Title: "Re-emerging blood transfusion and organ transplant-transmitted parasitic diseases"

Journal: Critical Care Medicine

Manuscript no: CCM-01769-2008

Submitted: 10/17/2008

Research proposal evaluation and review

NIH proposal

Review group: AIDS Clinical and Epidemiological Studies

Principal Investigator: Pamina M. Gorbach

Purpose: To investigate the effect of an HIV diagnosis on behavioral change and transmission potential

I contributed by evaluation of the investigators' proposed clinical lab methods for HIV infection status. My report was an addendum to the overall study review by Stephanie Tortu Ph.D.

Submitted: 2/18/2008

Research Interests

Degradation of Louisiana marshes by nutrias

Pharmaceuticals in sewerage and municipal water

Plant toxins of forensic interest

Nicotine/cotinine in the workplace

Formaldehyde in temporary housing units

Phthalates and endocrine disrupters in the environment

Forensic epidemiology of drug use/abuse and drug related violence/death

October 2006- Present Lirette Consultants LLC

Provide consultation in forensic toxicology as a court certified expert witness.

Prior Work Experience

July 2006-April 2007 Forensic Toxicology Consultant
St Tammany Parish Coroner's Office
550 Brownswitch Road, Slidell, LA 70458

2005-September 2007 Adjunct Professor
Department of Public Health
LSU Health Sciences Center
New Orleans, LA

1993-March 2006 Director, Forensic Laboratory
Jefferson Parish Coroner's Office
2018 8th St. Harvey, LA 70058

Designed a fully functional forensic toxicology laboratory, from the ground up, and was responsible for all laboratory operations, QA/QC, safety, security, chain of custody maintenance, personnel training, computer operations and reporting. I also performed as an expert witness in court and depositions, in numerous cases, to discuss toxicology lab results, chain of custody procedures, pharmacologic and physiological effects of ethanol and cocaine intoxication, the biochemistry of diabetes mellitus and its effects on ketone body detection in DWI cases.

1990-1993 Screening, Quality Control and Safety Supervisor. Extractionist
Occupational Toxicology Laboratories
Kenner, LA 70062

Aided in the design, startup and daily operation of an accredited NIDA (SAMHSA) toxicology laboratory, from the ground up, and was responsible for all screening laboratory operations, QA/QC, safety, security, chain of custody maintenance, and GC/MS extraction processes and operation.

1989-1990 Medical Technologist
Department of Toxicology
Smithkline Beecham Clinical Laboratories
Metairie, LA 70001

Performed routine and stat clinical toxicology extraction, screening and confirmatory procedures.

1986-1989 Laboratory Manager
Smithkline Beecham Clinical Laboratories,
St. Charles General Hospital
New Orleans, LA 70115

- Manager of a full service hospital (general) laboratory. Responsible for all personnel issues, QA/QC, supplies, training, hiring, etc.
- 1980-1986 Primary S.M.A.C. Operator
Department of Chemistry
Alton Ochsner Medical Foundation
Jefferson, LA 70123
- Responsible for the operation, repair and maintenance, training, supply orders, QA/QC for the 'Technicon' SMAC system. I was also proficient in the care, maintenance and operation of numerous 'backup instruments.
- 1977-1979 Medical Technician
Department of Clinical Microscopy
Alton Ochsner Medical Foundation
Jefferson, LA 70123
- Performed routine and stat urinalysis, parasitology, gastric intubation, and special chemistry analyses.
- 1976-1977 Phlebotomist, Medical Technician
St.Charles General Hospital
New Orleans, LA 70115
- Performed routine and stat percutaneous blood collections on, primarily geriatric, hospital patients. Began training with increasing proficiency in clinical chemistry, hematology, coagulation, and serological laboratory procedures.

Publications

Broussard, L.A.; Broussard, A.K.; Pittman, T.S.; Lirette, D.K. Death due to inhalation of ethyl chloride. J. Forensic Sci. 45(1):223-225; 2000