



NAME:	Tanuja Sathiraj	DATE:	07/03/2018
LABORATORY:	Houston Forensic Science Center		
JOB TITLE:	Forensic Analyst		

Indicate all disciplines in which you do casework:

<input type="checkbox"/>	Controlled Substances	<input type="checkbox"/>	Forensic Biology/DNA
<input type="checkbox"/>	Crime Scene	<input type="checkbox"/>	Latent Prints
<input type="checkbox"/>	Digital Forensics	<input type="checkbox"/>	Questioned Documents
<input type="checkbox"/>	Firearms	<input checked="" type="checkbox"/>	Toxicology
<input type="checkbox"/>	Forensic Audio/Video	<input type="checkbox"/>	Trace Evidence

List all categories or sub-disciplines in which you do casework:

Human Performance Toxicology: Confirmation of drugs and its metabolites in biological samples on the GCMS.
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Education:

List all higher education institutions attended (list high school if no college degree has been attained)

Institution	Dates Attended	Major	Type of Degree Earned
Sri Krishnadevaraya University, INDIA.	1990-1992	Microbiology	Master of Science
Sri Satya Sai Institute of Higher Learning, INDIA.	1987-1990	Microbiology	Bachelor of Science

Other Training:

List continuing education, workshops, in service, and other formal training received. Please include the course title, source, and dates of training.

<ul style="list-style-type: none"> -LC-MS/MS webinar training from Sciex-April 24, 2018. -Annual Ethics Training, HFSC-February 22, 2018. -Fire Prevention and Life Safety, City of Houston-October 24, 2017. -LC-QTOF validation training, HFSC by Dr. Preshious Rearden-September 2017. -Society of Forensic Toxicologists (SOFT) conference/training-Oct 17-21, 2016. -LC-QTOF training with trainer from AB Sciex-September 28-30, 2016. -AED, First-Aid, and CPR safety training for Section Safety Representatives-09/06/16. -Ethics training-provided by Defense Attorney Nicole DeBorde-08/31/16. -Introduction to Root Cause Analysis, HFSC-June 13, 2016. -In-house GCMS/chemstation training by Technical Consultant from AIM LabService- June 9- 10, 2016. -Principles of GCMS- Advanced Techniques in Impairment Toxicology, Agilent Technologies-June 1-3, 2016. -Society of Forensic Toxicologists: "Forensic Toxicology Testimony: How to effectively communicate our Science to the courts"-May 23, 2016. -Introduction to Uncertainty of Measurement, HFSC-April 7, 2016. -The Robert F. Borckenstein Course on Alcohol and Highway Safety: Testing, Research and Litigation, Indiana University- May 17th, 2013.



-National Institute of Justice and West Virginia University Forensic Science Initiative, August 2011, Jackson Hole, WY: -Uncertainty of Measurements; Introduction to Forensic Drug Chemistry; Mass Spectrometry-Drugs and Trace.

-West Virginia University Extended Learning: - Fundamentals of Forensic Toxicology, February 2012; Forensic Mass Spectrometry-July 2011.

-Training received as part of on the job training: Drug Classification; Drug Extraction; Pharmacology; Cocaine Overview; Immunoassay; Derivatization by GC; Cannabinoids; Sympathomimetic Amines; Opioids; CNS Depressants, pharmacokinetics, pharmacodynamics, and Instrumentation.

-ASCLD/LAB: Measurement Confidence: Traceability; Measurement Assurance; Uncertainty Concepts.

-RTI International: Fundamentals of Chromatography used in Toxicology-January 2013; Fundamentals of Sample preparation used in Toxicology-March 2013; How to be a good expert witness-November 2012; To Hell and Back The Ethics of Stewardship and Stewardship of Ethics- March 2011; The Ethics of Leadership and Leadership of Ethics- March 2011; Expert Testimony Training for the Prosecutor and Scientist- March 2011; Introduction to Uncertainty in Forensic Chemistry-February 2010; SOP writing for ISO 17025- February 2010; Uncertainty in Forensic Chemistry and Toxicology II- March 2009; Drug Facts: DFSA perspective- July 2012. Fundamentals of Immunoassay testing used in Toxicology- June 2012.

Other course works: Blood Borne Pathogens: Exposure in the Workplace, March 2010; OSHA-Laboratory Standard, August 2010.

-Southwestern Association of Toxicologists: Attended training in 2014.

-Forensic GC-MS workshop by Dr. Glen Jackson, September 2014.

-Moot court training, webinar by National Medical Services; May 2015.

-The Robert F. Borckenstein Course on Effects of Drugs on Human Performance, September 2015.

-Expert Witness Testimony Workshop at Harris County Institute of Forensic Sciences (2013).

Courtroom Experience:

List the disciplines/sub-disciplines in which you have testified as an expert witness and indicate over what time period and approximately how many times you have testified in each.

Discipline or Sub-Discipline	Time Period	Times Testified
Toxicology	February 2014-January 2016	6

Professional Affiliations:

List any professional organizations of which you are or have been a member. Indicate any office(s) or positions held and the dates of these activities.

Organization	Member Status & Position(s) Held	Dates of Membership
Society of Forensic Toxicologists (SOFT)	Associate member	March of 2013-Present



Employment History:

List all scientific or technical positions held, particularly those related to forensic science. List current position first. Be sure to indicate employer and give a brief summary of duties. Please list your dates of employment by month and year.

Job Title:	Forensic Analyst	Dates of Employment:	October 2014 to Present
Employer:	Houston Forensic Science Center		
Provide a brief description of duties below:			
<ul style="list-style-type: none"> • Responsible for the Method Development, Validation, and Standard Operating Procedures of drug confirmation methods. • Maintenance and troubleshooting of GCMS. • Confirmation of drug metabolites using Solid Phase and Liquid-Liquid extraction and data processing on GC-MS using chemstation and MassHunter. • Forensic sample analysis and data processing on criminal casework. • Preparation of reagent stock solutions and standards. • Performance verification checks and maintaining log on analytical instruments. • Participate in proficiency and competency testing. • Security, evidence handling, and accessioning. • Preparing discovery orders for Attorneys. • Recording case work information on the Laboratory Internal Management Software (LIMS). • Courtroom testimony. 			

Job Title:	Criminalist	Dates of Employment:	September 2012-2014
Employer:	Houston Police Department		
Provide a brief description of duties below:			
<ul style="list-style-type: none"> • Confirmation of drug metabolites on casework samples using Solid Phase Extraction and data processing on GC-MS using chemstation. • Maintenance and troubleshooting of GCMS. • Operation and maintenance of TECAN Freedom EVO • Forensic sample analysis and data processing on criminal casework using Immunoassay. • Preparation of reagent stock solutions and standards. • Performance verification checks and maintaining log on analytical instruments. • Participate in proficiency and competency testing. • Security, evidence handling, and accessioning. • Preparing discovery orders for Attorneys. • Training analysts on screening. • Technical and Administrative Review on casework. • Recording case work information on the Laboratory Internal Management Software (LIMS). • Technical and Administrative review of screening and confirmation of drugs on casework. • Courtroom testimony. 			



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Job Title:	Forensic Scientist-I	Dates of Employment:	January 2011- September 2012
Employer:	Sam Houston State University Regional Crime Laboratory		
Provide a brief description of duties below:			
<ul style="list-style-type: none">• Method Development, Validation, and Standard Operating Procedures of Immunoassay.• Operation and maintenance of TECAN Freedom EVO.• Preparation of SOP's of analytical instruments and laboratory documents.• Forensic sample analysis and data processing on criminal casework using Immunoassay.• Confirmation of drug metabolites using Solid Phase Extraction and data processing on GC-MS using chemstation.• Preparation of reagent stock solutions and standards.• Performance verification checks and maintaining log on analytical instruments.• Participate in proficiency and competency testing.• Security, evidence handling, and accessioning.• Recording case work information on Justice Trax.			

Job Title:		Dates of Employment:	
Employer:			
Provide a brief description of duties below:			

Job Title:		Dates of Employment:	
Employer:			
Provide a brief description of duties below:			

Other Qualifications:

List below any scientific papers authored or co-authored and/or scientific presentations given, research in which you have been involved, academic or teaching positions you have held, and any other information you consider relevant to your qualification as a forensic scientist.

n/a

