

**Dr. Luke N. Rodda, Ph.D. MRACI CChem**  
**Cert. IV Bus., B.App.Sci.(Hons.), Ph.D. (Med.)**

---

Chief Forensic Toxicologist and Director, Forensic Laboratory Division  
Office of the Chief Medical Examiner  
1 Newhall Street  
San Francisco, CA 94124-5328 – United States

---

**APPOINTMENT HISTORY**

**Chief Forensic Toxicologist**  
**Director, Forensic Laboratory Division**

Office of the Chief Medical Examiner, City and County of San Francisco, California – United States  
October 2016 – Present

**Assistant Adjunct Professor**

Department of Laboratory Medicine, University of California, San Francisco, California – United States  
October 2017 – Present

**Adjunct Instructor of Forensic Sciences**

Center for Health Sciences, Oklahoma State University, Tulsa, Oklahoma – United States  
April 2020 – Present

**Adjunct Research Associate**

Department of Forensic Medicine, Monash University, Melbourne, Victoria – Australia  
June 2014 – 2018

**Chief Forensic Toxicologist, Acting**  
**Director, Forensic Laboratory Division, Acting**

Office of the Chief Medical Examiner, City and County of San Francisco, California – United States  
July 2016 – October 2016

**Forensic Toxicologist Supervisor**

Office of the Chief Medical Examiner, City and County of San Francisco, California – United States  
May 2016 – July 2016

**Forensic Toxicologist**

Victorian Institute of Forensic Medicine, Melbourne, Victoria – Australia  
January 2006 – May 2016

**Tutor and Practical Demonstrator**

School of Medical Sciences, RMIT University, Bundoora, Victoria – Australia  
January 2008 – December 2008

**EDUCATION**

**Doctor of Philosophy (Forensic Medicine – Forensic Toxicology)**

Department of Forensic Medicine  
Monash University, Victoria – Australia

**Bachelor of Applied Science, Pharmaceutical Sciences – First Class Honors (Nanotoxicology)**

School of Medical Sciences  
RMIT University, Victoria – Australia

**Bachelor of Applied Science, Pharmaceutical Sciences**

School of Medical Sciences  
RMIT University, Victoria – Australia

**Certificate IV in Business, Frontline Management**

School of Business  
RMIT University, Victoria – Australia

**CERTIFICATIONS**

- 2020 Chartered Member (MRACI CChem) – The Royal Australian Chemical Institute
- 2020 Professional Membership (ANZFSS) – Australian and New Zealand Forensic Science Society
- 2019 BasicPlus CPR, AED, and First Aid for Adults (G2015) – MEDIC First Aid
- 2017 Certified Title 17 Forensic Alcohol Analyst – State of California, United States
- 2015 Level 1 Accredited Postgraduate Supervisor – Monash University

**SERVICE TO ACCREDITATION BODIES**

- 2020 Inspector, Full-Cycle – American Board of Forensic Toxicology (ABFT)
- 2020 Inspector, Mid-Cycle – American Board of Forensic Toxicology (ABFT)

**MEMBERSHIPS OF PROFESSIONAL ASSOCIATIONS**

- 2020 – Present National Association of Medical Examiners (NAME)
- 2020 – Present The Council of Forensic Science Educators (COFSE)
- 2019 – Present International Council on Alcohol, Drugs and Traffic Safety (ICADTS)
- 2019 – Present American Society of Crime Laboratory Directors (ASCLD)
- 2018 – Present California Association of Crime Laboratory Directors (CACLD)
- 2017 – Present American Academy of Forensic Sciences (AAFS – U.S.)
- 2017 – Present International Association for Chemical Testing (IACT)
- 2016 – Present Californian Association Toxicologists (CAT)
- 2016 – Present Californian Association of Criminalists (CAC)
- 2014 – Present Society of Forensic Toxicologists (SOFT)
- 2014 – Present Australian Academy of Forensic Sciences (AAFS – Aus.)
- 2009 – Present The International Association of Forensic Toxicologists (TIAFT)
- 2009 – Present Forensic and Clinical Toxicology Association Inc. of Australasia (FACTA)
- 2009 – Present Australian and New Zealand Forensic Science Society (ANZFSS)
- 2008 – 2011 Australasian Society of Clinical & Experimental Pharmacologists and Toxicologists (ASCEPT)
- 2008 – 2010 Mutagenesis and Experimental Pathology Society of Australasia (MEPSA)

**PROFESSIONAL COMMITTEES**

2020 – 2020	Consensus Panel Member DUID trends and laboratory practices, National Safety Council's (NSC) Alcohol Drugs and Impairment Division's (ADID)
2019 – Present	President – Young Scientist Committee (TIAFT)
2019 – Present	Member – California Opioid TaskForce (CDPH)
2018 – Present	Member – Novel Psychoactive Drugs Committee (TIAFT)
2018 – Present	Member – Oral Fluid Committee (SOFT)
2018 – Present	Member – CA Impaired Driving TaskForce, Subcommittee Best Practices & Protocols (CHP)
2018 – Present	Member – Strategic Highway Safety Plan, Alcohol and Drug Impaired Driving (DMV)
2018 – Present	Member – Culture, Value, and Diversity Committee (SOFT)
2017 – Present	Chair – New and Novel Drugs (CAT)
2017 – Present	Member – International engagement and Global Leaders Network Alumni (Monash University)
2016 – Present	Member – Sexual Assault Response Team, City and County of San Francisco (SART)
2016 – 2019	Member – Young Scientist Committee (TIAFT)
2014 – 2016	Member – Victorian Committee, Australian & New Zealand Forensic Science Society (ANZFSS)
2015 – 2016	Member – Security Response Unit, Emergency Coordination and Business Continuity (VIFM)
2013 – 2016	Editor – Media and Newsletter, Forensic and Clinical Toxicology Association Inc. (FACTA)
2012 – 2014	Member – HDR Committee, School of Public Health & Preventive Medicine (Monash University)
2010 – 2014	Deputy Chief Warden – Occupational Health and Safety Committee (VIFM)
2009 – 2010	Member – Occupational Health and Safety Committee (VIFM)
2009 – 2015	Member – Social Club Committee (VIFM)
2007 – 2008	President – Student & Staff Committee, Pharmaceutical Sciences (RMIT University)

**SERVICE TO PEER-REVIEWED JOURNALS, SINCE**

2020	Editorial Board, Forensic Science International Synergy (Elsevier)
2020	Reviewer, Forensic Science (WIREs)
2019	Guest Editor, SOFT 2020 Special Issue - Journal of Analytical Toxicology (Oxford)
2018	Reviewer, Drug Testing and Analysis (Wiley)
2018	Reviewer, Journal of Pharmaceutical and Biomedical Analysis (Elsevier)
2018	Reviewer, Frontiers in Pharmacology, section Neuropharmacology (Frontiers)
2018	Reviewer, Alcohol and Drug Review (Wiley)
2016	Reviewer, Journal of Analytical Toxicology (Oxford)
2013	Reviewer, Analytical and Bioanalytical Chemistry (Springer)
2012	Reviewer (Outstanding), Forensic Science International (Elsevier)

**SERVICE TO PROFESSIONAL CONFERENCES**

2020	Scientific Committee – Reviewer, AAFS 2021 meeting – Virtual Platform
2020	Planning Committee, SOFTember Meeting – Virtual Platform
2020	Scientific Committee – Reviewer, SOFTember Meeting – Virtual Platform
2020	Host, CAT Spring Meeting, – San Francisco, California, US ( <i>postponed to Spring 2022</i> )
2019	Scientific Committee – Reviewer, SOFT Annual Meeting – San Antonio, Texas, US

- 2019 Moderator Chair (Postmortem Toxicology Oral Session), TIAFT Annual Meeting, Birmingham, UK
- 2019 Scientific Committee – Reviewer, TIAFT International Meeting and TIAFT YSC Awards – Birmingham, UK
- 2018 Scientific Committee – Reviewer, SOFT Annual Meeting – Minneapolis, Minnesota
- 2018 Scientific Committee – Reviewer, TIAFT International Meeting and TIAFT YSC Awards – Brussel, Belgium
- 2018 Moderator (DUID Oral Session), Joint SOFT and TIAFT International Meeting – Florida, US
- 2017 Scientific Committee, Joint SOFT and TIAFT International Meeting and YSC Awards – Florida, US

## **CONTINUOUS PROFESSIONAL EDUCATION**

- 2020 Forensic 17025 Technical Assessor Preparation Course – ANAB (ANSI Accreditation Board)
- 2020 Moderator, SOFTopics: A Deeper Dive into Validations – SOFT
- 2020 Alcohol Impairment Workshop – California Association of Criminalists
- 2020 Intelligent Influence - The Key Ingredients to Leadership and Professional Success – John Collins
- 2019 Chair, Application of QTOF techniques: Approaches and Workflows – SOFT 2019 San Antonio, Texas
- 2019 Faculty, The Robert F. Borkenstein Course on Effects of Drugs on Human Performance and Behavior
- 2018 Chair, Forensic Epidemiology Integrating Public Health Workshop – TIAFT 2017 Boca Raton, Florida
- 2017 Coordinator, Forensic Alcohol “Wet Lab” Study – Californian Association of Criminalists
- 2016 The Robert F. Borkenstein Course on Alcohol & Highway Safety: Testing, Research & Litigation
- 2016 Courtroom Presentation of Evidence – Californian Criminalists Institute
- 2011 Pharmacology Workshop (FACTA), Melbourne – Australia
- 2012 Ethics and Good Research Practice Short Court – Monash University
- 2010 Provision of Expert Evidence – Forensic Foundations
- 2010 Analytical Chemistry Techniques – Radiometer University
- 2010 Australasian Mortality Data Interest Group Workshop, Melbourne – Australia
- 2009 LC–MS/MS Software and Instrument Techniques – AB Scientific
- 2009 Forensic Pharmacology Workshop (Australasian Forensic Toxicology Meeting), Melbourne – Australia
- 2008 Pharmaceutical Safety, Evaluation and Regulation (TGA, FDA, EMEA) – Pfizer / RMIT University
- 2008 First Aid (Workplace Level 2 – HLTAID003) – St Johns Ambulance

## **ACHIEVEMENTS & RESEARCH AWARDS**

- 2019 Co-lead movement of CA Bill “SB-283 Fatal vehicular accidents: chemical test results” through State Senate
- 2014 Best Publication (Young Scientist Award), TIAFT – Buenos Aires, Argentina
- 2014 First Travel Award – Aus and New Zealand Forensic Science Society Symposium – Adelaide, Australia
- 2014 Highly Commended Oral Presentation Award, RACI R&D Conference – Adelaide, Australia
- 2013 Best Peer-Reviewed Paper: Early Career Researcher, SPHPM – Monash University
- 2013 FACTA First Scholarship Prize – Sydney, Australia
- 2011 ROSII Reward & Recognition for Service, Victorian Institute of Forensic Medicine
- 2011 Certificate of Service (Deputy Chief Warden), Victorian Institute of Forensic Medicine
- 2008 ASCEPT Toxicology Poster Finalist, Australia Health & Medical Research Congress – Brisbane, Australia
- 2007 RMIT LEAD Certificate (SSCC), Student Rep President for Student and Staff Consultative Committee
- 2006 RMIT LEAD Certificate (Peer Tutoring), Educating Victorian Secondary school students in science

---

**SCHOLARLY ACTIVITIES**

- 2020 Mentor – Alumni Group Mentoring Session (Monash University)
- 2020 Supervisor – Doctorate project “Effective use of QTOF in Forensic Toxicological Testing Regimes” (Oklahoma State University)
- 2020 Supervisor – Master’s project “Bladder Wash, a (not-so) Alternative Specimen for Postmortem Toxicology” (Arcadia University)
- 2020 Supervisor – Intern student project “Gabapentin in Postmortem Casework”
- 2020 Supervisor – Master’s project “Drugs associated with Drug Facilitated Sexual Assault Casework 2014-2018” (Arcadia University)
- 2019 Supervisor – Master’s project “Development, Optimization and Validation of Criteria for the Identification of over 650 Drugs and Metabolites in LC-QTOF/MS with SWATH acquisition” (University of California, Davis)
- 2019 Invited Speaker – Forensic Toxicology in San Francisco (California Poison Control System, UCSF School of Pharmacy)
- 2019 Supervisor – Bachelor’s intern student project “Comparison of Alere iCup with LC-MS/MS Confirmatory Analysis in Postmortem Urine” (John Jay College, New York)
- 2019 Supervisor – Bachelor’s intern student project “Drugs associated with DFSA casework 2014-2018” (University of San Francisco)
- 2019 Supervisor – Bachelor’s intern student project “Validation of Dilutions Using Nova pHox for Postmortem Vitreous Humor Electrolytes” (University of Texas, Austin)
- 2019 Supervisor – Master’s project “Determining Enantiomeric Composition of Drugs of Abuse Using Fluorine Nuclear Magnetic Resonance (19F NMR)” (University of California, Davis)
- 2019 Invited Speaker – Oral fluid: Impact in DUID Investigations (San Francisco Forensic Interest Group)
- 2018 Invited Member – Workshop on Post-Mortem Toxicology Practices (Centers for Disease Control and Prevention, National Center for Health Statistics – Washington D.C.)
- 2018 Invited Speaker – Forensic Toxicology in San Francisco, a Changing Landscape (American Association for Clinical Chemistry (AACC))
- 2018 Invited Speaker – DUID Oral Fluid Implementation (NHSTA – A Dialogue to Address Drug-Impaired Driving)
- 2018 Principle Investigator – Decedent Drug Profiles between Homeless, SRO and Gen Populations DFSA
- 2018 Supervisor – Student project “Drugs associated with DFSA casework 2014-2018” (University of San Francisco)
- 2018 Supervisor – Intern project “Fentanyl Incidence in Decedents from 2008-2018” (University of California, Davis)
- 2018 Invited Speaker – Oral Fluid practice and Use Internationally (CA IDTF – CHP, Sacramento, CA)
- 2018 Supervisor – Student project “DUID Cannabis incidence pre- & post-Prop 64” (San Francisco University)
- 2018 Invited Speaker – Forensic Toxicology Testing in Drug Facilitated Sexual Assault Cases (DFSA: Prevention, Education, Response: A San Francisco Symposium & Shared Learning Opportunity)
- 2018 Supervisor – Intern project “Fentanyl Analogs & Synthetic Opioids by UHPLC-MS/MS” (San Francisco University)
- 2018 Invited Speaker – Forensic Toxicology Lecture (San Francisco University)
- 2017 Supervisor – Master’s student project “LC-QTOF for Forensic Casework” (SF State University)
- 2017 Supervisor – Student project “Multi analyte GCMS Quantitation Method” (San Francisco University)
- 2017 Supervisor – Master’s intern student project “Chiral LC-MS Analysis of Amphetamines” (Boston University)
- 2016 Supervisor – Master’s intern student project “Drug detections in Brazilian Drivers” (Boston University)
- 2016 Supervisor – Honour’s student project “Drug Deaths in Australia, 2016” (Monash University)
- 2016 Supervisor – Honour’s student project “Animal Envenomation Deaths in Aus 2000–2015” (Monash University)
- 2016 Doctoral Review – Confirmation “Opioids Toxicity Review” (Monash University)
- 2016 Doctoral Review – Mid-cycle “Intentional deaths among nursing home residents” (Monash University)

---

**MEDIA, PROFESSIONAL, RESEARCH AND COMMUNITY ENGAGEMENT**

- 2020 Two deaths a day: S.F. drug overdoses fueled by fentanyl are spiking, figures show, SF Chronicle – Oct 10
- 2020 Meet the Experts! Novel Psychoactive Substances (NPS) Drugs by design, Sciex Virtual Dialog – May 27
- 2020 Pivoting and Maintaining Operations, Connections for Change, Monash Alumni – May 13
- 2020 CAT conference 2020, TheToxPod S3 E3 – May 12
- 2020 Forensic Toxicology in San Francisco (SFPD Tenderloin Community Meeting) – Jan 28
- 2019 Applications of Toxicology in the 21<sup>st</sup> Century, TheToxPod S2 E4, Live from TIAFT, Birmingham, UK
- 2019 Sudden Increase in Fatal Fentanyl Overdoses in SF, The DOPE Project/Harm Reduction Coalition – Jun 16
- 2018 Fentanyl Rising in S.F.'s Street Drug Supply, SF Weekly – Oct 11
- 2018 Status of Criminal Sexual Assault & Sexual Harassment Cases – SF Board of Supervisors Hearing
- 2017 The 'drop dead' drug terrorising North America linked to 10 deaths in Melbourne, The Age – Dec 10
- 2016 Chronic Confusion: Is Your Mate on Drugs, Catalyst Magazine
- 2015 Bitter Beer: The Role of Natural and Synthetic Hops, Alquimie Magazine
- 2014 Media interview re outcomes of PhD, Herald Sun/Courier Mail (News Corp Australia)
- 2014 Radio interviews on outcomes of PhD, ABC National, 3AW Victoria, ABC Canberra, ABC Melbourne
- 2014 Research in Forensic Toxicology, Monash University
- 2014 The Science of Beer Explained, Forensic Matters – VIFM

**RESEARCH AND PROFESSIONAL FUNDING**

2020	\$55,000	OCME Project Director – Paul Coverdell Forensic Science Improvement Grant (State)
2019	\$55,000	OCME Project Director – Paul Coverdell Forensic Science Improvement Grant (State)
2014	\$2,200	First Travel Award – Australia & New Zealand Forensic Science Society Symposium
2013	\$1,500	First Scholarship Prize – Forensic and Clinical Toxicology Association Meeting
2013	\$2,115	Postgraduate Travel Grant Award – Monash University
2011	\$80,000+	PhD Departmental Scholarship – Monash University

**KEY RESEARCH SKILLS & INTERESTS**

- 25 peer-reviewed international scientific journal papers, 234 citations; H-Index 7; Research Gate Score 21.5
- Reviewer for numerous leading peer-reviewed academic journals
- Principal and co-researcher in multiple ongoing research projects, significantly contributing to the design and daily operation of the studies, ensuring that they are conducted, recorded and reported in accordance with study protocols
- Write grant and award funding applications to industry, academic and government bodies.
- Capability to consider, formulate and design research studies
- Produce publications in peer-reviewed journals and presentations at national and international conferences
- Forensic Pharmacology and Toxicology drug interpretation skills in postmortem and antemortem casework
- Communication skills and ability to develop and maintain collaborative research partnerships
- Ability to work independently and efficiently to meet deadlines under pressure
- Mentor colleagues in the method development & validation of analytical methods & techniques
- Investigator (on hold) for the “Toxicolist” project. Building the world’s first international reference database for postmortem drug concentrations with the National Board of Forensic Medicine (Sweden) and Victorian Institute of Forensic Medicine (Australia)

## **TOXICOLOGY EXPERIENCE**

- Direct and Oversee all Forensic Laboratory Division operations, research, protocols, work assignments and analytical procedures
- ABFT accreditation of OCME Forensic Laboratory Division
- Inspector for ABFT reviewing peer laboratories
- Accurately record data, interpret findings and prepare legal reports representing results
- Leadership role in developing and validating new methods of analysis and training
- Provide lectures and training of forensic staff for toxicology and pathology
- Review current professional literature, evaluate developments in instrumentation & methodology
- Report all proficiency testing/quality control results and develop/implement corrective actions as required
- Expert consultation with other agencies (e.g. police, district attorneys, public defenders, and the public)
- Testify in court to explain and support laboratory findings and technical details.
- Author and accurately follow Standard Operating Procedures and Chain-of-Custody Protocols as they apply to Forensic Toxicology
- Perform the more detailed and complicated qualitative and quantitative analysis of forensic specimens.
- Writing and preparing Toxicology reports for Medical Examiners and Coroners requiring the interpretation of post-mortem drug concentrations whilst taking into account and considering a range of circumstances, co-morbidities & potential drug-drug interactions.
- LC-MS(MS) analysis and quantification of over 250+ analytes including drugs of abuse, Victorian road safety act drugs, therapeutic drugs, poisons, synthetic cannabinoids and cathinones in biological specimens
- The continuing method development for the analysis of emerging novel psychoactive substances
- Development of a headspace GC method for the high-throughput analysis of alcohol and simple volatiles
- Revising and reformatting the drug monographs using the most up-to-date peer-reviewed literature
- Maintain and develop business key performance indicators
- Develop, perform and maintain laboratory documentation operation details adhered to accreditation standards
- Liaison with clients & stakeholders regards to incoming caseload, results and operations
- Proficient in a vast array of software and technologies including: Sciex (Analyst, Multiquant, SciexOS and LibraryView); Agilent (ChemStore, ChemStation & MussHunter); Shimadzu LabSolutions package; MS Office (Excel, Word, Powerpoint); statistical (GraphPad Prism & SPSS); QC Reporter; referencing libraries (Endnote and ProCite), and; the Adobe suite
- Checked, uploaded and validated (robustness) the ethanol & volatiles screen & quantification method
- CO-oximeter analysis of blood for carbon monoxide poisoning
- Perform general laboratory liaison procedures including specimen receipt and laboratory maintenance
- Manage laboratory supplies
- Follow safety regulations and procedures

## **CONTINUING PROFESSIONAL EDUCATION**

2020

- California Association of Crime Lab Director's Meeting, Virtual Seminar, USA
- ACMT/ASAM/ORN Addiction Toxicology Case Conference, American Society of Addiction Medicine (ASAM)
- Everything COVID-19, NAME 2020 Virtual Meeting
- Pediatric Concepts, NAME 2020 Virtual Meeting
- Toxicology I, NAME 2020 Virtual Meeting

- Toxicology II, NAME 2020 Virtual Meeting
- Trauma, NAME 2020 Virtual Meeting
- Critical Issues, NAME 2020 Virtual Meeting
- Medical Education and Administration, NAME 2020 Virtual Meeting
- Forensic Potpourri: Certification of Death and Unusual Causes of Death, NAME 2020 Virtual Meeting
- SOFTember 2020 Virtual Program
- 9th Annual Sexual Assault Response Team (SART) Summit Multi-Disciplinary Conference
- Learning Collaborative on State Strategies to Strengthen and Leverage Data to Address Impaired Driving. National Governors Association (NGA)
- Online Forensic Symposium: Current Trends in Forensic Toxicology
- Creating flagging rules and custom columns in SCIEX OS Software, Sciex Webinar
- COVID19 Webinar Series: Opioid Use Disorder, ACMT
- Columns, flow rates, chemistry... What does it all mean?, Sciex Virtual Dialog
- Curbing the Opioid Crisis: The Role of the Clinical Laboratory for Pain Management, Alan Wu, AACC
- Accurate mass instrumentation and application, Sciex Virtual Dialog
- Cannabis - from bloom to tomb, Sciex Virtual Dialog
- Quantitation and targeted identification data processing using SCIEX OS Software, Sciex Webinar
- Quantitative data processing using SCIEX OS Software, Sciex Webinar
- Creation of a Drug Monograph Tool (Explanation and how to use) - Michael G. Blyumin, OCME, San Francisco, CA, USA
- Front End Cleaning of SCIEX Triple Quadrupole and QTRAP Systems, Sciex Webinar
- Opioid Pharmacology (Heroin, Fentanyl and Therapeutic Narcotics) - Michael G. Blyumin, OCME, San Francisco, CA, USA
- Introduction to Time Of Flight, Sciex Webinar
- Sedative/Hypnotic Pharmacology (Benzodiazepines, Barbiturates and Z-drugs) - Michael G. Blyumin, OCME, San Francisco, CA, USA
- Introduction to Analyst TF Software, Sciex Webinar
- Maintenance and Troubleshooting (recommendations, troubleshooting tips and real world examples) , Sciex Webinar
- CNS Stimulant Pharmacology (Amphetamines and Cocaine) - Michael G. Blyumin, OCME, San Francisco, CA, USA
- Effective Data Processing and Data Workflow, Sciex Webinar
- Method Development Workflow and Optimization, Sciex Webinar
- Separation by Liquid Chromatography (LC) and Mass Spectrometry (MS) Fundamentals, Sciex Webinar

2019

- Basics of Pharmacology - Michael G. Blyumin, OCME, San Francisco, CA, USA
- Reversed Phase Mobile Phases: Selection and Selectivity Considerations, Phenomenex Webinar
- Quantification of NPS stimulants in post-mortem blood without using reference standards - Dr. Samuel Mesihaa, OCME, San Francisco, CA, USA
- Improving Scope and Turnaround Times in Postmortem Casework with a Consolidated Methodology Approach - Megan Wong, OCME, San Francisco, CA, USA
- Development, Optimization and Validation of Criteria for the Identification of over 700 Drugs and Metabolites by LC-QTOF/MS with SWATH Acquisition - Bailey Wei, OCME, San Francisco, CA, USA
- SOFT Annual Meeting, San Antonio, TX, USA
- NAME: Genetic Polymorphisms - Dr. Jirair Gevorkyan, OCME, San Francisco, CA, USA



- Borkenstein Drug Course, Long Beach, CA, USA
- TIAFT Annual Meeting, Birmingham, United Kingdom
- Forensic Pathology and Imaging: VIFM - Dr. Sarah Parsons, OCME, San Francisco, CA, USA
- CACLD Annual Meeting, Oakland, CA, USA
- CAT Spring Meeting, Monterey, CA, USA
- ACMT Annual Scientific Meeting Marijuana & Medical Toxicology Satellite Session

#### 2018

- Into the Unknown: the role of high-resolution mass spectrometry (i.e. TOF) in non-targeted screening and it's future in analytical toxicology - Dr. Daniel Pasin, OCME, San Francisco, CA, USA
- CAT Fall Meeting, Bakersfield, CA, USA
- SOFT Annual Meeting, Minneapolis, MN, USA
- TIAFT Annual Meeting, Ghent, Belgium
- Institute of Forensic Medical in Freiburg and the in-depth analysis they perform using Time of Flight (TOF) mass spectrometry in routine casework and particularly for novel psychoactive substances - Laura Huppertz, OCME, San Francisco, CA, USA
- Use of Narcan and the risks posed by Fentanyl and other Opioids - Kristen Marshall, OCME, San Francisco, CA, USA
- Synthetic Drug Crisis – Identifying NPS in Forensic Casework, Forensic Technology Centre of Excellence
- Current Trends in Forensic Toxicology Day 1 - 3, RTI International
- Introduction to Clinical Toxicology - Dr. Kai Li, OCME, San Francisco, CA, USA
- CAT Spring Meeting, Santa Rosa, CA, USA
- Joint SOFT and TIAFT International Meeting, Boca Raton, FL, USA

#### 2017

- The California Marijuana Project, CAT Semi-Quarterly Meeting, San Diego, CA, USA
- Analysis of Cannabis Products for Sale, CAT Semi-Quarterly Meeting, San Diego, CA, USA
- Pharmacology of Cannabis, CAT Semi-Quarterly Meeting, San Diego, CA, USA
- Synthetic Cannabinoids, CAT Semi-Quarterly Meeting, San Diego, CA, USA
- Marijuana and Driving 1 and 2, CAT Semi-Quarterly Meeting, San Diego, CA, USA
- Experimental Study Design and Review, CAT Semi-Quarterly Meeting, San Diego, CA, USA
- "Green Labs" – Essential Training for Adapting to Legal Marijuana, CAT Semi-Quarterly Meeting, San Diego, CA, USA
- American Academy of Forensic Sciences Meeting Presentations, New Orleans, Louisiana, USA

#### 2016

- SOFT Annual Meeting, Dallas, TX, USA
- TIAFT Annual Meeting, Brisbane, Australia
- Pharmacokinetics, Andrew Udy (VIFM Seminar Series)
- Building Afghanistan's Forensic Capacity, Zabi and Dallas Mazoori (VIFM Seminar Series)
- Beyond supportive care: Clinical aspects and treatment advances for common life-threatening poisonings and envenomations in Australia, Shaun Greene (VIFM Seminar Series)
- Suicide among nursing home residents: The Australian story. PhD Mid Candidature Review, Briony Murphy (VIFM Seminar Series)
- Sri Lankan Forensic Medical Case Studies, Dr Ajith Rathnaweera (VIFM Seminar Series)

- Mummymania: An exhibition at the Ian Potter Museum of Art, University of Melbourne, Janet Davey & Andrew Jamieson (VIFM Seminar Series)
- Essendope: the greatest sporting scandal in Australian sporting history (Encore), Dimitri Gerostamoulos (VIFM Seminar Series)
- Hips DO lie: A closer look at childbirth and the human pelvis, Sarah-Louise Decrausaz (VIFM Seminar Series)
- Clinical registries to improve health outcomes, Sue Evans, SPHPM (VIFM Seminar Series)
- Forensic Developments in Sri Lanka , Dr Ajith Tennakoon (VIFM Seminar Series)
- Evidence based practice: Beyond efficacy and onto effectiveness and cost-effectiveness, Prof Danny Liew, SPHPM (VIFM Seminar Series)
- The Motherisk Review: Outcomes of a review of a Canadian laboratory that led to miscarriages of justice, Olaf Drummer (VIFM Seminar Series)

## 2015

- Honours presentation "VicPol tox", Jake Parkins/Matthew Di Rago (VIFM Seminar Series)
- The 2014 Ebola Epidemic, Dr Heinrich Bouwer (ANZFSS Victorian Branch)
- Forensic Medical Services in Saudi Arabia, Dr Mohammed Madadin (VIFM Seminar Series)
- Organ donation: determination of brain death, Josh Ihle, Intensivist (Alfred Health) (VIFM Seminar Series)
- National Coroners Information System and Coroners Prevention Unit, Eva Saar and Lyndal Bugeja (VIFM Seminar Series)
- Metabolomics, Ute Roessner (VIFM Seminar Series)
- Uncertainty Measurements in Forensics, Bryan Found (VIFM Seminar Series)
- Complex Trauma Disorder - A Better Name for Borderline PD, Jayashri Kulkarni (VIFM Seminar Series)
- Metabolomics, Ute Roessner (VIFM Seminar Series)
- forensic medical service challenges in Fiji, Dr James Kalougivaki ( Fiji ) (VIFM Seminar Series)
- Exploring the evidence: presenting alternate explanations for forensic findings, Dr Kaye Balantyne (VIFM Seminar Series)
- Tissue donation and the Donor Tissue Bank of Victoria, Chantel Bartolo (VIFM Seminar Series)
- Confirmation lecture: "Developing a greater understanding of drug use, violence and sexual offending by examining contextual and psychological factors in forensic cases", Laura Anderson (VIFM Seminar Series)
- Victorian Police Forensic Science Department Lean Projects, Niki Taxidis (VIFM Seminar Series)
- "Naegeli-Franceschetti-Jadassohn Syndrome In Saudi Arabian Family, Saudi F. Path, Dr Salah Tubaigy (VIFM Seminar Series)"
- Forensic Medical Services in Singapore, Dr Shijia Chan, Forensic Pathology (VIFM Seminar Series)
- Forensic medical training and infrastructure in Jordan, Dr Rakiz Salameh and Dr Hafsa Salameh ( Palestine, based in Jordan ) (VIFM Seminar Series)
- 3D-Printing, Paul Mignone (Melb University) (VIFM Seminar Series)
- Skeletal PhD Confirmation Lecture, Samantha Rowbotham (VIFM Seminar Series)
- Application of Hair Analysis in Forensic Toxicology, Xin Wang (VIFM Seminar Series)
- Lean 6-sigma overview, Frances Adamas (VIFM Seminar Series)
- Confirmation lecture, Nathan Stam (VIFM Seminar Series)
- Opioids and Heroin Scheme - PhD Confirmation lecture, Briony Murphy (VIFM Seminar Series)
- Research at the VIFM: a history and the future, Olaf Drummer (VIFM Seminar Series)
- "Amendments to the coroners Act (practice directions & protocols), Jodie Burns (CCOV)
- Helen McElvie (VIFM Seminar Series)"
- Overview of Swedish Collaboration and Victorian Travel Fellowship, Dr Jennifer Pilgrim (VIFM Seminar Series)

- Principles of the public health approach and contextual matters in injury policy and programs for resource constrained settings – PhD pre-submission Review, Chebiwot Kipsaina (VIFM Seminar Series)

2014

- TIAFT Annual Meeting, Buenos Aires, Argentina
- Annual RACI Analytical and Environmental Division R&D Topics Conference. Adelaide, Australia.

2013

- TIAFT Annual Meeting, Madeira, Portugal

#### **AUTHOR OF PEER-REVIEWED JOURNAL PUBLICATIONS AND BOOK CHAPTERS**

1. West KL, **Rodda LN** (2020) Fentanyl Epidemic Hits the U.S. West Coast: Opioid-Related Deaths in San Francisco from 2009 – 2019. *Drug and Alcohol Dependence*. (*Submitted*)
2. Armenian, P, **Rodda LN** (2020) Two Decades of Ecstasy: Shifting Demographic Trends in Decedents using MDMA, *Journal of Analytical Toxicology*. (*Submitted*)
3. Turfus S, **Rodda LN**. (2021). High Performance Liquid Chromatography and Ultra-High Performance Liquid Chromatography Including Liquid Chromatography–Mass Spectrometry. In R. Wolstenholme, S. Jickells, & S. Forbes (Eds.), *Analytical Techniques in Forensic Science* (pp. 365-405). Hoboken, NJ 07030, USA: John Wiley & Sons Ltd.
4. **Rodda LN**, West KL, LeSaint KT (2020) Opioid overdose-related emergency department visits and accidental deaths during the COVID-19 pandemic. *Journal of Urban Health*. <https://doi.org/10.1007/s11524-020-00486-y>
5. **Rodda LN**, Cooper, G (2020) Impact of Forensic Toxicology Laboratories During the COVID-19 pandemic: Tale of Two Major U.S. Cities. *TIAFT Bulletin* 50(3): 19-21
6. Gevorkyan J, Kinyua J, Pearing S, **Rodda LN** (2020) A Case Series of Etizolam in Opioid Related Deaths. *Journal of Analytical Toxicology*. <https://doi.org/10.1093/jat/bkaa146>
7. **Rodda LN**. Forensic Toxicology Considerations, in Olsen K and Smollin C (Eds) *Poisoning and Drug Overdose*, Seventh Edition (2020). McGraw-Hill Professional. (*In review*)
8. Mardal M, Kinyua J, **Rodda LN**, Linnet K, Dalsgaard PW (2020) Free Online Tools to Improve HRMS Screening Strategies for New Psychoactive Substances. *TIAFT Bulletin* 50(2): 17-21
9. Towler S, Concheiro-Guisan M, Pearing S, **Rodda LN** (2020) Evaluation and Applicability of Alere iCup DX 14 for Rapid Postmortem Urine Drug Screening at Autopsy. *Journal of Forensic Sciences*. doi:10.1111/1556-4029.14577
10. **Rodda LN**, Pearing S, Harper, CE, Tiscione NB, Jones AW (2020) Inferences and Legal Considerations Following a Blood Collection Tube Recall. *Journal of Analytical Toxicology*. doi.org/10.1093/jat/bkaa056
11. **Rodda LN**. Forensic Toxicology, in Wu, AHB (Ed) *Self-Assessment Q&A in Clinical Laboratory Science III: Emerging Subspecialties* (2020). Elsevier. (*In Press*)

12. Gevorkyan J, Wong M, Pearing S, **Rodda LN** (2020) Method Consolidation to Improve Scope and Efficiency in Postmortem Toxicology. *Journal of Analytical Toxicology*. 44(5): 422-439.
13. Martucci HF, Ingle EA, Hunter MD, **Rodda LN** (2018) Distribution of Furanyl Fentanyl and 4-ANPP in an Accidental Acute Death: A Case Report. *Forensic Science International*. 283: e13-e17
14. **Rodda LN**, Volk JA, Moffat E, Williams CM, Lynch KL, Wu A (2017) Evaluation of Intraosseous Fluid as an Alternative Biological Specimen in Postmortem Toxicology. *Journal of Analytical Toxicology*. 42(3): 163-169.
15. **Rodda LN**, Pilgrim JL, Crump K, DiRago M, Gerostamoulos D, Drummer OH (2017) A Cluster of Fentanyl-Laced Heroin Deaths in 2015 in Melbourne, Australia. *Journal of Analytical Toxicology*. 41(4): 318-324
16. DiRago M, Chu M, **Rodda LN**, Jenkins E, Kotsos A, Gerostamoulos D (2016) Ultra-rapid targeted analysis of 40 drugs of abuse in oral fluid by LC-MS/MS using carbon-13 isotopes of methamphetamine and MDMA to reduce detector saturation. *Analytical and Bioanalytical Chemistry* 408(14): 3737-49.
17. **Rodda LN**, Gerostamoulos D, Drummer OH (2015) Reply to Letter to the Editor. *Journal of Analytical Toxicology*; 39(5): 416
18. **Rodda LN**, Gerostamoulos D, Drummer OH (2015) Pharmacokinetics of Reduced Iso- $\alpha$ -acids in Volunteers following Clear Bottled Beer Consumption. *Forensic Science International*. 250: 37-43.
19. **Rodda LN**, Gerostamoulos D, Drummer OH (2014) Detection of Iso- $\alpha$ -Acids to Confirm Beer Consumption in Postmortem Specimens. *Drug Testing and Analysis*. 7(1): 65-74.
20. **Rodda LN**, Gerostamoulos D, Drummer OH (2014) Studies into the Postmortem Redistribution and Serum to Blood Ratio of Iso- $\alpha$ -acids in Postmortem Specimens. *Forensic Science, Medicine, and Pathology* 10(4): 550-557.
21. **Rodda LN**, Gerostamoulos D, Drummer OH (2014) Pharmacokinetics of Iso- $\alpha$ -acids in Volunteers following the Consumption of Beer. *Journal of Analytical Toxicology*. 38: 354-359.
22. Di Rago M, Saar E, **Rodda LN**, Turfus S, Kotsos A, Gerostamoulos D, Drummer OH (2014) Fast Targeted Screening of 132 Acidic & Neutral Drugs & Poisons In Whole Blood Using LC-MS/MS. *Forensic Science International*. 243: 35-43.
23. **Rodda LN**, Gerostamoulos D, Drummer OH (2014) The Stability of Iso- $\alpha$ -acids and Reduced Iso- $\alpha$ -acids in Stored Blood Specimens. *Forensic Science International*. 239: 44-49.
24. **Rodda LN**, Gerostamoulos D, Drummer OH (2013) The Rapid Identification and Quantification of Iso- $\alpha$ -acids and Reduced Iso- $\alpha$ -acids in Blood using UHPLC-MS/MS: Validation of a Novel Marker for Beer Consumption. *Analytical and Bioanalytical Chemistry* 405 (30): 9755-9767.
25. **Rodda LN**, Beyer J, Gerostamoulos D, Drummer OH (2013) Alcohol Congener Analysis and the Source of Alcohol: A Review. *Forensic Science, Medicine, and Pathology* 9 (2): 194-207.
26. Chu M, Gerostamoulos D, Beyer J, **Rodda LN**, Boorman M, Drummer OH (2012) The incidence of drugs of impairment in oral fluid from random roadside testing. *Forensic Science International* 215 (1-3): 28-31

## INVITED CONFERENCE AND SCHOLARLY PRESENTATIONS (SELECTED)

1. **Rodda LN** (2020) Importance of Effective Postmortem Testing during the Fentanyl Epidemic and Prevalent Polydrug use, California Association of Crime Lab Director's Meeting, Virtual Seminar, USA
2. **Rodda LN** (2020) Invited Lecture – National and International Forensic Postmortem Toxicology. Center for Forensic Science Research and Education (CFSRE) Arcadia University MSFS Program
3. **Rodda LN** (2020) Invited Speaker and Panel Member – Drug Facilitated Sexual Assault. 9th Annual SART Summit Multi-Disciplinary Conference
4. **Rodda LN** (2020) Invited Speaker and Panel Member, Toxicology Standards and Operations: National, State, And Local Perspectives – Learning Collaborative on State Strategies to Strengthen and Leverage Data to Address Impaired Driving. National Governors Association (NGA)
5. Farley MC, Tran H, Gevorkian J, Towler S, Pearring S, **Rodda LN**. (2020) A Single Blood and Urine Method of All Recommended and Additional Impairing Drugs in DUID Casework. SOFTember Meeting.
6. Towler S, Concheiro-Guisan M, Pearring S, **Rodda LN** (2020) Evaluation and Applicability of Rapid Point-of-Care Screening of Postmortem Urine at Autopsy SOFTember Meeting.
7. West KL, **Rodda LN** (2020) A Decade of Fentanyl Related Overdoses in San Francisco. SOFTember Meeting.
8. West KL, **Rodda LN** (2020) Fentanyl Epidemic on the West Coast: Accidental Overdose Death Trends in San Francisco 2009-2019. American Association of Forensic Sciences Conference, Anaheim, California, USA
9. **Rodda LN** (2019) Implementation, Workflows and Quantitative use of QTOF with Validation, Accreditation and Standards Consideration. Application of QTOF techniques: Approaches and Workflows Workshop - Society of Forensic Toxicologists Annual Meeting, San Antonio, Texas, USA
10. Wei B, Gevorkyan J, Kinyua J, Pearring S, **Rodda LN** (2019) Development, Optimization and Validation of Criteria for the Identification of over 700 Drugs and Metabolites by LC-QTOF/MS with SWATH Acquisition. Society of Forensic Toxicologists Annual Meeting, San Antonio, Texas, USA
11. Wong M, Gevorkyan J, Pearring S, **Rodda LN** (2019) Improving Scope and Turnaround Times in Postmortem Casework with a Consolidated Methodology Approach. Society of Forensic Toxicologists Annual Meeting, San Antonio, Texas, USA
12. **Rodda LN** (2019) Benzodiazepines, Zolpidem and other Imidazopyridines ("Z Drugs") and Driving Impairment. The Robert F. Borkenstein Course on Effects of Drugs on Human Performance and Behavior, Long Beach, California
13. **Rodda LN**, Rivera AM, Farley M, Pearring S (2019) DUID Trends post-Cannabis Legalization and a Comprehensive Analytical Approach for DUID Casework. 57<sup>th</sup> Annual Meeting of International Association of Forensic Toxicologists, Birmingham, United Kingdom.

14. **Rodda LN**, Wille S (2019) Basic principles of LEAN and examples for a Tox Lab. Young Scientific Symposium - 57<sup>th</sup> Annual Meeting of International Association of Forensic Toxicologists, Birmingham, United Kingdom.
15. **Rodda LN** (2019) Assessing Cannabis Levels in a Fatal Case, American College of Medical Toxicology (ACMT), San Francisco, CA, USA
16. **Rodda LN** (2019) Impaired or Not: Challenging Cannabis Cases with Panel Discussion and Audience Participation, American College of Medical Toxicology (ACMT), San Francisco, CA, USA
17. **Rodda LN** (2019) San Francisco's Fentanyl Epidemic: the Impact of Unknown Potent Opioid Consumption following Counterfeit and Laced Drugs, California Association of Crime Lab Director's Meeting, Oakland, CA, USA
18. **Rodda LN** (2019) DFSA Testing Regime, Stakeholders and Drug Trends, California Association of Toxicologists Spring Meeting, Monterey, CA, USA
19. **Rodda LN** (2018) Oral Fluid: Impact in DUID Investigations, California Association of Toxicologists Spring Meeting, Santa Rosa, CA, USA
20. Liverman, C, Narula H, Moffat E, **Rodda LN** (2018) Postmortem Endogenous Ethanol Production Detected by Court-Ordered Transdermal Alcohol Monitoring. Joint SOFT and TIAFT International Meeting, Boca Raton, Florida, USA
21. **Rodda LN**, Martucci HF, Ingle EA, Hunter MD (2017) Counterfeits and Lacing: the Impact of Unknown Potent Opioid Consumption. Forensic and Clinical Toxicology Association Conference, Melbourne, Australia
22. **Rodda LN**, (2016) A Cluster of Fentanyl-Laced Heroin Deaths in Melbourne, Australia. 54<sup>th</sup> Annual Meeting of International Association of Forensic Toxicologists, Brisbane, Australia.
23. **Rodda LN**, Gerostamoulos, Drummer OH (2015) The Bitter Part of Beer. 53rd Annual Meeting of International Association of Forensic Toxicologists, Florence, Italy.
24. **Rodda LN**, Gerostamoulos, Drummer OH (2014). The Detection of Hop-Derived Compounds as Novel Markers for Beer Consumption using UHPLC-MS/MS. 22nd Annual RACI Analytical and Environmental Division R&D Topics Conference. Adelaide, Australia.
25. **Rodda LN**, Gerostamoulos D, Drummer OH (2014) Pharmacokinetics of Iso- $\alpha$ -Acids in Volunteers to Confirm Beer Consumption. 52nd Annual Meeting of International Association of Forensic Toxicologists, Buenos Aires, Argentina.
26. **Rodda LN**, Gerostamoulos D, Drummer OH (2014) The Detection of Hop-Derived Compounds as Novel Markers for Beer Consumption using UHPLC-MS/MS. Australian and New Zealand Forensic Science Society Symposium, Adelaide, Australia.

27. **Rodda LN**, Gerostamoulos D, Drummer OH (2013) The Detection of Hop-Derived Compounds as a Novel Marker for Beer Consumption in Blood using UHPLC-MS/MS. Forensic and Clinical Toxicology Association Inc. Conference, Sydney, Australia.
  
28. **Rodda LN**, Gerostamoulos D, Drummer OH (2013) The Quantification of Hop-Derived Iso- $\alpha$ -acid type Compounds in Beer using UHPLC-MS/MS. Forensic and Clinical Toxicology Association Conference, Sydney, Australia.
  
29. **Rodda LN**, Gerostamoulos D, Drummer OH (2013) An LC-MS/MS Method for the Detection and Quantification of Beer Congeners in Blood. 51st Annual Meeting of the International Association of Forensic Toxicologists, Funchal, Madeira ~ Portugal.
  
30. **Rodda LN**, Piva TJ, Wright PFA (2008) The effects of Metal Oxide Nanoparticles on UV-Irradiated Keratinocytes. Australian Health and Medical Research Congress (AH&MRC), Brisbane, Australia.