Curriculum Vitae

**Sabra Botch-Jones, MS, MS, MA, D-ABFT-FT**

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**Date: March 1, 2019**

**Academic Training:**

5/2009 M.S. University of Florida, Gainesville, FL; Forensic Toxicology

5/2007 M.S. University of Florida, Gainesville, FL; Pharmaceutical Sciences, Forensic Drug Chemistry

5/2004 M.A. University of Central Oklahoma, Edmond, OK; Criminal Justice Management and Administration

5/2002 B.A. University of Central Oklahoma, Edmond, OK; Criminal Justice with Biology

**Academic Appointments:**

3/2017-present Assistant Professor, Division of Graduate Medical Sciences (GMS), Department of Anatomy and Neurobiology, Biomedical Forensic Sciences; Boston University School of Medicine

7/2014-3/2017 Instructor, Division of Graduate Medical Sciences (GMS), Department of Anatomy and Neurobiology, Biomedical Forensic Sciences; Boston University School of Medicine

**Hospital Appointments or Other Employment:**

1/2012-Present Consultant, Forensic Toxicologist; fTox Consulting, LLC

5/2013-1/2016 Subject Matter Expert (SME), Sci-Mind™ Toxicology for the Scientist and Short Course

1/2010-1/2012 Senior Forensic Toxicologist and Quality Manager of Toxicology and Drug Chemistry Laboratories, Tarrant County Medical Examiner Forensic Science Laboratories, Ft. Worth, TX

1/2002-1/2010 Biological Sciences Laboratory Technician, Biochemistry Research Team, Federal Aviation Administration, Civil Aerospace Medical Institute, Oklahoma City, OK

**Honors:**

2/2019-Present Appointed by the Commonwealth of Massachusetts’ Governor Charles Baker to the Forensic Sciences Oversight Board

8/2018-12/2018 Appointed by the Commonwealth of Massachusetts’ Governor Charles Baker to the Special Commission on Operating Under the Influence and Impaired Driving

10/2014-Present Elected as Member of Toxicology Subcommittee, National Institute of Standards and Technology (NIST) Organization of Scientific Area Committees (OSAC)

7/2016-Present Elected as Member of the Toxicology Consensus Body, American Academy of Forensic Sciences Standards Board (AAFS ASB)

5/2015 Elected to ASCLD/LAB Board of Directors-Public Member

10/2014 Excellence in SPE Award, UCT, Inc.

1/2011 Selected for the Bridge Program, Management Development Institute, Tarrant County

1/2010 The William E. Collins Publication Award, Aerospace Medicine Awards for Excellence and Achievement

**Licenses and Certifications:**

1/2011 American Board of Forensic Toxicology, Diplomate-Forensic Specialist

1/2008 Forensic Toxicology, University of Florida

1/2006 Forensic Drug Chemistry, University of Florida

**Teaching Experience and Responsibilities:**

**07/2014-Present** Course Director and Instructor (Full Time) for Instrumental Analysis-Fall and Spring

**01/2015-Present** Course Director and Instructor (Full Time) for Forensic Chemistry-Spring

**07/2015-Present** Course Director and Instructor (Full Time) for Forensic Toxicology-Summer

**07/2014-Present** Course Director and Instructor (Full Time) for Analysis of Controlled Substances-Fall

**07/1015-Present** Course Director (Full Time) for Trace Evidence-Fall

**07/2015-Present** Course Director (Full Time) for Trace Evidence Laboratory-Spring

**07/2014-Present** Co-Instructor for Directed Research and Professionalism in Biomedical Forensic Sciences

**06/2017-Present** Course Director and Instructor (Full Time) for Advanced Chemistry-Summer

**Institutional Committee Assignment:**

2017-PresentVesalius Committee, Member, Boston University School of Medicine, Department of Anatomy and Neurobiology

**Major Mentoring Activities:**

**09/2014-08/2015** Erin Walsh, M.S., Detection of Drugs of Abuse Within Electronic Cigarette Liquids Using Gas Chromatography-Mass Spectrometry and Ultra Fast Liquid Chromatography Tandem Mass Spectrometry

**09/2014-08/2015** Katherine Dye, M.S., Analysis of Benzofury Compounds in Blood Using Different Sample Preparation Methods and Ultra Fast Liquid-Chromatography-Tandem Mass Spectrometry (UFLC-MS/MS)

**09/2014-08/2015** Judy Costa, M.S., Prevalence of Synthetic Cannabinoids in Forensic Casework in 2014 Based on Data From the Drug Enforcement Administration’s National Forensic Laboratory Information System

**09/2015-05/2016** Shanna Cawley, M.S., The Effects of Zinc Sulfate on Ethyl Glucuronide Immunoassay Urine Testing

**05/2015-08/2016** Raquel LeBlanc, M.S., Method Development and Validation for the Quantification of Eight Synthetic Piperazines in Blood and Urine Using Liquid Chromatography-Tandem Mass Spectrometry (UFLC-ESI-MS/MS)

**05/2015-08/2016** David Barajas, An Examination of the Effects of Salvia Divinorum Fortification on Stable Isotope Ratios

**05/2015-08/2016** Phillip McKinney, Using Solid Phase Microextraction and Gas Chromatography/Mass Spectrometry When Analyzing Fire Debris for Pseudoephedrine, A Precursor Drug in Clandestine Methamphetamine Production

**05/2015-12/2016** Malorie Mella, Detection of Cocaine and Its Major Metabolites in Rodent Bone Following Outdoor Decomposition after Chronic Administration with 2D LC/MS/MS Technology

**05/2015-12/2016** Daniel LeDoux, The Potential Adulerating Capabilities of Commercial Zinc Poducts on Preliminary Immunoassay Screenings For The Detection of Ethyl Gluconide (EtG)

**05/2015-12/2016** Lin Zhen, The Effects of Filtration Sterilization on the Stability of Ketamine, Selected Benzodiazepines and Metabolites in Female Urine

**09/2015-05/2017** Tim Lau, Investigation in Stability of Eight Synthetic Piperazines in Human Whole Blood Under Various Storage Conditions Over Time (***SOFT ERA Winner 2017***)

**09/2015-05/2017** Alexandria Miller, The Identification of Components and Quantitation of Nicotine in Electronic Cigarette Liquids and the Identification of Components in Cannabidiol Liquids Using Gas Chromatography-Mass Spectrometry

**09/2015-03/2017** Amanda Moore, Qualitative Identification of Fentanyl and Other Synthetic Opioids Using Ambient Ionization High Resolution Time-of-Flight Mass Spectrometry

**09/2015-08/2017** Jessamyn Ward, Surface-Enhanced Raman Spectroscopy (SERS) for the Qualitative Analysis of Synthetic Piperazines

**09/2015-08-2017** Kayla Benvenuto, Analysis of Synthetic Cannabinoids in Urine, Plasma, and Edibles Utilizing Multidimensional Liquid Chromatography Tandem Mass Spectrometry

**09/2016-05/2018** Ammanda Carr, Method Development and Validation for the Identification and Quantitation of Gamma-Hydroxybutyrate in Urine, Blood, and Oral Fluid Using Gas Chromatography-Mass Spectrometry

**09/2016-05/2018** Ashley Vallier, Chiral Separation of the Enantiomers of Ephedrine, Amphetamine, Methamphetamine, MDA, MDMA, and Phentermine in Blood Using LC-MS/MS

**09/2016-08/2018** Daniel Lee, Detection and Quantitation of 17 Synthetic Cannabinoids in Human Whole Blood Using LC-MS/MS Following Supported Liquid Extraction

**09/2016-08/2018** Robert Walsh, Development of a Method for the Screening of Sports Doping Compounds Using Multidimensional Liquid Chromatography and Time of Flight Mass Spectrometry

**09/2016-08/2018** Ani Kazaryan, Prevalence of Alcohol and Drugs in New York City Drivers

**Other Professional Activities:**

**Professional Societies: Memberships, Offices, and Committee Assignments:**

07/2016-Present Secretary, Society of Forensic Toxicology Liaison, Toxicology Consensus Body, Academy Standards Board.

1/2014-Present Appointed Member, Toxicology Subcommittee, Organization for Scientific Area Committees (OSAC), U.S. Commerce Department’s National Institute of Standards and Technology (NIST)

1/2010-Present Vice Chair, Executive Board, Voting Member, National Safety Council Alcohol, Drugs and Impairment Division

1/2013-Present Member, Chair of Drug Chemistry Session (2016, 2017, 2018, 2019), Chair of Collegiate Competition (2015), Northeastern Association of Forensic Scientists

1/2012-Present Member, Scientific Chair of Toxicology Section (2019, Scientific Co-Chair: 2018), Chair of the Laboratory and Protocols Resource Subcommittee in the Humanitarian & Human Rights Resource Center, Student Academy Faculty, Academy Cup, American Academy of Forensic Science

1/2007-Present Member, Society of Forensic Toxicologists (Co-Chair, Scientific Sessions, SOFT Annual Meeting. Dallas, TX October 17-21, 2016)

1/2006-Present Member, Southwestern Association of Toxicologists

1/2007-2016 Member, Association for Women in Science

11/2013-5/2015 Accreditation Council-Voting Member, American Association for Laboratory Accreditation (A2LA)

1/2006-1/2007 Member, Life Sciences and Biomedical Engineering Branch Aerospace Medical Association

**Journal Reviews:**

**2016-Present** Drug Testing and Analysis, Invited Reviewer

**2014-Present** Journal of Analytical Toxicology, Invited Reviewer

**Other Support:**

1/2017 (2.5 Years) The Evaluation of Alternative Sample Preparation Techniques for Use in Forensic Laboratories, Research Triangle Institute, Funding from National Institute for Justice

1/2017 (2.5 Years) Long-term Stability of Synthetic Cannabinoids in Biological Matrices, Research Triangle Institute, Funding from National Institute for Justice

1/2013 James C. Garriott Grant, Southwestern Association of Toxicologists.

1/2011 Meeting Grant Award, Southwestern Association of Toxicologists.

**Bibliography:**

**Original, Peer Reviewed Articles:**

1. Moore, A., Foss, J., Juhascik, M., **Botch-Jones, S.,** Kero, F. Rapid Screening of Opioids in Seized Street Drugs Using Ambient Ionization High Resolution Time-of-Flight Mass Spectrometry. Forensic Chemistry 2019
2. **Botch-Jones, S.**, LeBlanc, R., Foss, J., Jones, J., Ye, J., Smith, S.E., Hill, C., Risinger, A., Kero, F. Detecting Drugs of Abuse in Hemolyzed Blood Via LC-ESI-Laminar Flow MS/MS. J Forensic Sci & Criminal Inves 2018; 10(4): 555800. DOI: 10.19080/JFSCI.2018.10.555800. (In Print)
3. Lau, T., LeBlanc, R., and **Botch-Jones, S.R.** Stability of Synthetic Piperazines in Human Whole Blood, Journal of Analytical Toxicology, https://doi.org/10.1093/jat/bkx090
4. Mella, M., Schweitzer, B., Mallet, C., Moore, T., **Botch-Jones, S.R.** Detection of Cocaine and Metabolites in Bone Following Decomposition using 2D-LC-MS/MS**.** Journal of Analytical Toxicology. J Anal Toxicol. 2017 Dec 28. doi: 10.1093/jat/bkx106.
5. Mella, M., Schweitzer, B., Mallet, C., Moore, T., **Botch-Jones, S.R.** Analysis of Ketamine and Xylazine in Complex Matrices Using Two Dimensional (2D) LC-MS/MS. Rapid Communications in Mass Spectrometry. doi: 10.1002/rcm.8041
6. Walsh, E., Johnson, R., Tracy, P., **Botch-Jones, S.R**. Evaluation of the Components within Electronic Cigarette Liquids and Drugs of Abuse Using Gas Chromatography-Mass Spectrometry. J Forensic Leg Investig Sci 2016 Dec, 2:014.
7. **Botch-Jones, S.R**., Foss, J, Barajas, D, Kero, F, Young, C, Weisenseel, J. The Detection of NBOMe Designer Drugs on Blotter Paper by High Resolution Time-Of-Flight Mass Spectrometry (TOFMS) With and Without Chromatography. Forensic Science International. 2016 Oct; 267: 89-95.
8. Mallet, C. and **Botch-Jones, S.R**. Illicit Drug Analysis Using Two-Dimension Liquid Chromatography/Tandem Mass Spectrometry. Journal of Analytical Toxicology. 2016 Oct
9. **Botch-Jones, S.R.**, Johnson RD, Kleinschmidt, K, Bashaw, S, and Ordonez, J. Diphenhydramine's Role in Death Investigations: An Examination of Diphenhydramine Prevalence in Two U.S. Geographical Areas. American Journal of Forensic medicine and Pathology. 2014 Sep; 35 (3): 181-5
10. Johnson, RD, **Botch-Jones S.R.**, Flowers, T and Lewis, CL. An Evaluation of 25B-, 25C-, 25D-, 25H-, 25I-, and 25T2-NBOMe via LC/MS/MS: Method Validation and Analyte Stability. Journal of Analytical Toxicology. 2014 Oct; 38(8):479-84.
11. Johnson, RD and **Botch-Jones S.R.** The Stability of Four Designer Drugs: MDPV, Mephedrone, BZP and TFMPP in Three Biological Matrices under Various Storage Conditions. Journal of Analytical Toxicology. Vol. 37. No. 2. March 2013 Pages 51-55.
12. **Botch, S.R**., Davidson, M.S., Ricaurte, E.M., Chaturvedi, A.K. Toxicological Finding in 889 Fatally Injured Obese Pilots Involved in Aviation Accidents. Office of Aerospace Medicine Report DOT/FAA/AM-10/10.
13. Johnson, RD and **Botch S.R.** The Screening of Forensic Blood, Urine, and Tissue Specimens for Xenobiotics Using Ion-Trap Liquid Chromatography–Tandem Mass Spectrometry. Journal of Analytical Toxicology. Vol. 35. No. 2. March 2011 Pages 65-74.
14. **Botch, S.R**., Johnson, R.D., Chaturvedi, A.K., Lewis R.L. Distribution of Oxycodone in Postmortem Fluids and Tissues. Office of Aerospace Medicine Report DOT/FAA/AM-10/11.
15. **Botch, S.R.** and Johnson R.D. Civilian Aviation Fatalities Involving Pilot Ethanol and a Previous Record of Substance Abuse. Aviation, Space, and Environmental Medicine. Vol. 80, No. 10 October 2009.
16. **Botch, S. R.** and Johnson, R. D. Toxicological Findings of Pilots Involved in Aviation Accidents Operated Under Title 14 CFR, Part 135. Office of Aerospace Medicine Report DOT/FAA/AM-09/15, 2009.
17. Chaturvedi A. K., **Botch, S.R.** Canfield D. V., Forster E. M. Vitreous Fluid and/or Urine Glucose Concentrations in 1,335 Civil Aviation Accident Pilot Fatalities. Journal of Forensic Science Volume 54, Issue 3, pages 715–720, May 2009.
18. **Botch, S. R**. and Johnson, R. D. Alcohol Related Aviation Accidents Involving Pilots with Previous Alcohol Offenses. Office of Aerospace Medicine Report DOT/FAA/AM-08/22 (2008).
19. **Botch, S. R.** and Johnson, R. D. Drug Usage in Pilots Involved in Aviation Accidents Compared With Drug Usage in The General Population: From 1990 to 2005. Office of Aerospace Medicine Report. DOT/FAA/AM-08/10 (2008).
20. **Botch S. R.**, Chaturvedi A. K., Canfield D. V., Forster E. M. Vitreous Fluid and/or Urine Glucose Concentrations in 1,335 Civil Aviation Accident Pilot Fatalities. Office of Aerospace Medicine Report DOT/FAA/AM-08/11 (2008).
21. **Botch, S.R.** and Johnson, R.D. Antiemetic and Sedative Levels Found Together in 26 Civil Aviation Pilot Fatalities, 2000 to 2006. Aviation, Space and Environmental Medicine. Vol.79, No.6, June 2008.
22. **Botch, S.R.** and Johnson, R.D. Antiemetics With Concomitant Sedative Use in Civil Aviation Pilot Fatalities: From 2000 to 2006. Office of Aerospace Medicine Report. DOT/FAA/AM-07/29 (2007).

**Case Reports, Reviews, Chapters, and Editorials:**

1. Claude Mallet and **Sabra Botch-Jones.** Illicit Drug Analysis in Urine Using 2D LC-MS/MS. Application Note-Waters Corporation. Library No. APNT134868426
2. Malorie Mella, Brendan Schweitzer, **Sabra R. Botch-Jones**, Claude R. Mallet. Rapid Analysis of Pharmaceuticals in Human Tissues Using the ACQUITY UPLC with 2D Technology. Application Note-Waters Corporation. Library No. APNT134928875
3. Malorie Mella, Brendan Schweitzer, **Sabra R. Botch-Jones**, Tara L. Moore, Claude R. Mallet. Detection of Cocaine and Its Major Metabolites in Rodent Bone Following Outdoor Decomposition after Chronic Cocaine Administration Using the ACQUITY UPLC System with 2D Technology. Application Note-Waters Corporation. Library No. APNT134919105
4. Malorie Mella, Brendan Schweitzer, **Sabra R. Botch-Jones**, Claude R. Mallet. Analysis of Ketamine and Xylazine in Rat Tissues Using the ACQUITY UPLC with 2D Technology. Application Note-Waters Corporation. Library No. APNT134913772

**Proceedings of Meetings and Invited Papers:**

1. **Botch-Jones, S.** “Transitions in a Career in Forensic Toxicology: A Journey From Practitioner to Professor”. American Academy of Forensic Sciences 2019 Annual Meeting. Baltimore, MD. February 19, 2019
2. Swart, C. Lee, D., Caldwell, M., Bynum, N. Moore, K., Grabenauer, M., **Botch-Jones, S.** The Detection and Quantitation of Ten Synthetic Cannabinoid Metabolites in Human Urine Using High-Performance Liquid Chromatography/Tandem Mass Spectrometry (HPLC/MS/MS). American Academy of Forensic Sciences 2019 Annual Meeting. Baltimore, MD. February 20, 2019
3. Lee, D., Foley, S., Phung, E., Swart, C., Bynum, N. Moore, K., **Botch-Jones, S.\*** The Detection and Quantitation of 17 Synthetic Cannabinoids in Human Whole-Blood Using Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) Following Supported Liquid Extraction. American Academy of Forensic Sciences 2019 Annual Meeting. Baltimore, MD. February 20, 2019
4. McGowan, C.,, Jenquine, K., Moretto, M. Foley, S., Bynum, N., Moore, K., **Botch-Jones, S.** The Detection and Quantification of 23 Drugs in Blood and Urine Following Solid Phase Extraction (SPE) Using Ultra Performance Liquid Chromatography-Tandem Mass Spectrometry (UPLC-MS/MS) American Academy of Forensic Sciences 2019 Annual Meeting. Baltimore, MD. February 20, 2019
5. Botch-Jones, **S.** “What in the OSAC is Happening?- NIST OSAC Toxicology Subcommittee Update”. Northeastern Association of Forensic Scientists 2018 Annual Meeting. Bolton Landing, NY, USA. October 26, 2018
6. Phung, E. Bynum, N., Grabenauer, G., **Botch-Jones, S.,** Moore, K. Validation of 15 Synthetic Cannabinoid Metabolites in Urine by LC-MS/MS. Northeastern Association of Forensic Scientists 2018 Annual Meeting. Bolton Landing, NY, USA. October 25, 2018
7. Swart, C. Lee, D., Caldwell, M., Bynum, N. Moore, K., Grabenauer, M., **Botch-Jones, S.** Detection and Quantitation Of 10 Synthetic Cannabinoid Metabolites In Human Urine. Northeastern Association of Forensic Scientists 2018 Annual Meeting. Bolton Landing, NY, USA. October 25, 2018
8. Iarussi, P., Mallet, C., **Botch-Jones, S.** Conversion of Combined Drugs LC-MS/MS Method Into a Multi-Method Approach by 2D LC-MS/MS Technology. Northeastern Association of Forensic Scientists 2018 Annual Meeting. Bolton Landing, NY, USA. October 25, 2018
9. Renner, B., Mallet, C., **Botch-Jones, S.** Analysis of Microcystins LR, YR, and RR in Biological Fluids by2D-LC Technology. Northeastern Association of Forensic Scientists 2018 Annual Meeting. Bolton Landing, NY, USA. October 25, 2018
10. Smoker, M., Reynolds, A., Ziolkowski, E., **Botch-Jones, S.** Glass Population Study and Discrimination of Glass Samples using Glass Refractive Index Measurement III and Scanning Electron Microscope and Energy Dispersive Spectroscopy. Northeastern Association of Forensic Scientists 2018 Annual Meeting. Bolton Landing, NY, USA. October 25, 2018
11. Baker, A., Rieders, M., **Botch-Jones, S.R.,** Ropero-Miller, J.D., Goldberger, B., Winokur, A., Logan, B. The Making of an Opioid Crisis in America? Why Research, Policy, and Practice Matter. American Academy of Forensic Sciences 2018 Annual Meeting. Seattle, WA. February 23, 2018
12. Lau, T., LeBlanc, R., and **Botch-Jones, S.R.**, Investigation in Stability of Eight Synthetic Piperazines in Human Whole Blood Under Various Storage Conditions Over Time. Society of Forensic Toxicology/The International Association of Forensic Toxicologists 2017 Annual Meeting. Boca Raton, FL, January 10, 2018
13. Courtney McGowan, Jamie Foss, **Sabra Botch-Jones**, Kacey Kilburn, Frank Kero, Recommendations for the determination of matrix suppression in biological samples by UPLC-ESI-MS/MS: Extending Quality Measures in Forensic Toxicology. Society of Forensic Toxicology/The International Association of Forensic Toxicologists 2017 Annual Meeting. Boca Raton, FL, January 9, 2018
14. **Sabra Botch-Jones**, Malorie Mella, Brendan Schweitzer Claude R. Mallet, Philip Kemp, Kacey Cliburn Dennis Canfield, Rapid Analysis of Pharmaceuticals in Human Tissues using 2D LC-MS/MS, Northeastern Association of Forensic Scientists 2017 Annual Meeting. Pocono Manor, PA November 8, 2017.
15. Jamie Foss, Courtney McGowan, **Sabra Botch-Jones**, Kacey Kilburn, Frank Kero, Recommendations for the determination of matrix suppression in biological samples by UPLC-ESI-MS/MS: Extending Quality Measures in Forensic Toxicology Northeastern Association of Forensic Scientists 2017 Annual Meeting. Pocono Manor, PA November 8, 2017.
16. Jamie Foss, **Sabra Botch-Jones**, Frank Kero, Josh Ye, Sharanya Reddy, Feng Qin, Principles of a Laminar Flow Based Interface for MS/MS Instrumentation: Improved Robustness for the Analysis of Samples with Complex Matrices, Northeastern Association of Forensic Scientists 2017 Annual Meeting. Pocono Manor, PA November 8, 2017.
17. Ani Kazaryan, Courtney McGowan, **Sabra Botch-Jones**, Janette H. Wilson, James T. Daly, Hyperspectral Imaging: Proof of Concept for Field Analysis of Select Opioids and Salvia Divinorum Northeastern Association of Forensic Scientists 2017 Annual Meeting. Pocono Manor, PA November 8, 2017.
18. Courtney McGowan, **Sabra Botch-Jones**, Kacey Kliburn, Frank Kero, Recommendation for the determination of matrix suppression in biological samples by UPLC-ESI-MS/MS: Extending Quality Measures in Forensic Toxicology Northeastern Association of Forensic Scientists 2017 Annual Meeting. Pocono Manor, PA November 8, 2017.
19. Robert Walsh, Douglas Townsend, Heather Harris, Courtney McGowan, **Sabra Botch-Jones**, Characterization of Salvia Divinorum Fortification by Fourier-Transform Infrared Spectroscopy (FTIR), Northeastern Association of Forensic Scientists 2017 Annual Meeting. Pocono Manor, PA November 8, 2017.
20. Kayla Benvenuto, **Sabra R. Botch-Jone**s, Claude R. Mallet, 2D LC/MS-MS Analysis of Synthetic Cannabinoids in Urine, Plasma and Edibles, Northeastern Association of Forensic Scientists 2017 Annual Meeting. Pocono Manor, PA November 8, 2017.
21. **Sabra R. Botch-Jones,** University-Industry Collaborations: Advantages, Impact, and Potential Challenges**,** Northeastern Association of Forensic Scientists 2017 Annual Meeting. Pocono Manor, PA November 7, 2017.
22. **Sabra R. Botch-Jones,** See What Condition Your Condition Was In: The Use of SFST Tests for Drug Impairment, NACDL & NCDD's 21st Annual DWI Means Defend With Ingenuity® Seminar October 5, 2017
23. **Sabra R. Botch-Jones,** Forensic Toxicology Case Evaluation: Understanding Your Data, NACDL & NCDD's 21st Annual DWI Means Defend With Ingenuity® Seminar October 5, 2017
24. **Sabra R. Botch-Jones.** Laboratory and Analysis Protocols (LAP) Subcommittee: Scope and Outreach. International Association of Forensic Sciences (IAFS 2017). Toronto, CA. August 21, 2017
25. **Sabra R. Botch-Jones**, Jamie Foss, Frank Kero. Detection of Nicotine in Oral Fluids and Associated E-Liquids by DSA-TOFMS, GC-MS and LC-MS/MS. International Association of Forensic Sciences (IAFS 2017). Toronto, CA. August 25, 2017
26. **Sabra R. Botch-Jones**, Jamie Foss, Frank Kero. Detection of Nicotine in Oral Fluids and Associated E-Liquids by QQQ ESI-LC-MS/MS. Washington University, St. Louis, MO. July 26, 2017
27. **Sabra R. Botch-Jones,** Zachary E. Lawton, Alessandra Bruno, David A. Barajas, Jamie R. Wieland, Michael C. Gizzi, Christopher Mulligan. Rapid Screening of Emerging Novel Psychoactive Substances (NPS) Using a Portable, Ambient Sampling Mass Spectrometer (MS). American Academy of Forensic Sciences 2017 Annual Meeting. New Orleans, LA. February 17, 2017
28. Harry L. Miles and **Sabra R. Botch-Jones.** The Use of Standardized Field Sobriety Tests for Drug Impairment: An Evaluation of the Research, Ethical Implications, and Legal Issues. American Academy of Forensic Sciences 2017 Annual Meeting. New Orleans, LA. February 17, 2017
29. Malorie Mella, Claude Mallet, **Sabra R. Botch-Jones**, Brendan N. Schweitzer, Dennis V. Canfield, Philip M. Kemp, Kacey Cliburn. A Rapid Analysis of Pharmaceuticals in Human Tissues by 2D-Liquid Chromatography/Tandem Mass Spectrometry (2D-LC/MS/MS) Technology. American Academy of Forensic Sciences 2017 Annual Meeting. New Orleans, LA. February 17, 2017
30. Malorie Mella, Claude Mallet, **Sabra Botch-Jones**, Tara Moore. Detection of Cocaine and Its Major Metabolites in Rodent Bone Following Outdoor Decomposition after Chronic Cocaine Administration using 2D-LC/MS/MS. American Academy of Forensic Sciences 2017 Annual Meeting. New Orleans, LA. February 17, 2017
31. David A. Barajas, Todd E. Dawson, Robert Michener, **Sabra R. Botch-Jones**. An Examination of the Effects of Salvia Divinorum Forti cation on Stable Isotope Ratios.American Academy of Forensic Sciences 2017 Annual Meeting. New Orleans, LA. February 17, 2017
32. **Sabra R. Botch-Jones.** The Science of Death Resulting Cases-Analysis. New Hampshire Association of Criminal Defense Lawyers. Concord, NH. December 16, 2016
33. **Sabra R. Botch-Jones,** Mallorie Mella, Brendan, Schweitzer, Claude Mallet.Rapid Analysis of Ketamine and Xylazine in Rat Tissue by 2D LC/MS/MS Technology. North Eastern Association of Forensic Scientists 2016 Annual Meeting. Atlantic City, NJ. October 13, 2016. & Society of Forensic Toxicology Annual Meeting, Dallas, TX. October 21, 2016
34. Jamie Foss, Amanda Moore, **Sabra Botch-Jones**, Frank Kero. Qualitative Identification of Heroin and Synthetic Opiates in Seized Drug Samples Using Ambient Ionization High Resolution Time-of-Flight Mass Spectrometry. Society of Forensic Toxicology Annual Meeting, Dallas, TX. October 20, 2016
35. Raquel LeBlanc and **Sabra Botch-Jones**. Quantification of Eight Synthetic Piperazines In Biological Specimens Using UFLC-ESI-MS/MS. Society of Forensic Toxicology Annual Meeting, Dallas, TX. October 20, 2016
36. Amanda Moore, Jamie Foss, **Sabra Botch-Jones**. Identification of Fentanyl and Other Synthetic Opiates using Ambient Ionization High Resolution Time-of-Flight Mass Spectrometry Northeastern Association of Forensic Scientists 2016 Annual Meeting. Atlantic City, NJ. October 13, 2016.
37. Malorie Mella, **Sabra Botch-Jones**, Brendan, Schweitzer, Claude Mallet, Tara Moore. Detection of Cocaine and Its Major Metabolites in Rodent Bone Following Outdoor Decomposition after Chronic Cocaine Administration using 2D-LC/MS/MS. Northeastern Association of Forensic Scientists 2016 Annual Meeting. Atlantic City, NJ. October 13, 2016
38. Lin Zhen, **Sabra Botch-Jones**, Amy Brodeur. The Effects of Filtration Sterilization on the Stability of Ketamine, Selected Benzodiazepines and Metabolites in Female Urine. Northeastern Association of Forensic Scientists 2016 Annual Meeting. Atlantic City, NJ. October 13, 2016.
39. Rachel Pruckler, **Sabra Botch-Jones**, Catherine Grgicak; An Assessment of Pipette Calibration Stability Using Statistical Process Control Charts. Northeastern Association of Forensic Scientists 2016 Annual Meeting. Atlantic City, NJ. October 13, 2016.
40. **Sabra R. Botch-Jones**. The Simultaneous Detection of a Panel of Drugs of Abuse in Hemolyzed Blood Samples (N=40) by LC-ESI-Laminar Flow MS/MS and The Detection of NBOMe Designer Drugs on Blotter Paper Demonstrated on an Authentic Forensic Case Sample Using Ambient Ionization High Resolution Time-of-Flight Mass Spectrometry (TOFMS). University of Maryland. September 22, 2016. Arcadia University. Glenside, PA April 28, 2016 & Western New England. April 8, 2016
41. **Sabra R. Botch-Jones**. Detection of NBOMe Designer Drugs on Blotter Paper Demonstrated on an Authentic Forensic Case Sample Using Ambient Ionization High Resolution Time-of-Flight Mass Spectrometry (TOFMS). PerkinElmer 16th Annual Open House. Downers Grove, IL April 21, 2016
42. **Sabra R. Botch-Jones**, Chair of Workshop: Sample Preparation in Forensic Toxicology: Back to the Past and a Look into the Future. Society of Forensic Toxicologists Annual Meeting, Atlanta, GA October 19, 2015
43. Claude Mallet and **Sabra Botch-Jones.** Illicit Drug Analysis in Urine Using 2D LC-MS/MS. Society of Forensic Toxicologists Annual Meeting, Atlanta, GA October 19, 2015
44. Connie A. Lewis, Robert Johnson, **Sabra Botch-Jones**, Tiffany Flowers. NBOMe: A Deadly LSD Look-A-Like Society of Forensic Toxicologists Annual Meeting, Atlanta, GA October 19, 2015
45. David Barajas, Frank Kero, Neolle Elliott, Bogdan Bogdanov, Craig Young, Jason Weisenseel, **Sabra Botch-Jones**. Variations on a theme: The detection of NBOMe designer drugs on blotter paper by high resolution time-of-flight mass spectrometry (TOFMS) with and without chromatography. Northeastern Association of Forensic Scientist. Hyannis, MA October 15, 2015 & Association of Analytical Chemists (ANACHEM) Livonia, MI November 5, 2015
46. **Sabra R. Botch-Jones**-Chair of Workshop. “Laboratory Accreditation: A Look at Accrediting Bodies and The Top 10 Assessment Findings”, Presented at Society of Forensic Toxicologists Annual Meeting, October 20, 2014, Grand Rapids, MI
47. **Sabra R. Botch-Jones**. “Heroin Abuse on The Rise: A forensic examination of the drug, what is fueling the increase in abuse, and how it translates to forensic practitioners.” Presented at the Greater New England Chapter of the International Association of Forensic Nursing. November 7 2014, Boston College, Newton, MA
48. **Sabra R. Botch-Jones.** “Why the NBOMe’s are not the Bomb” Presented at 2014 Northeastern Association of Forensic Scientists. Hershey, PA.
49. **Sabra R. Botch-Jones**. “Ketamine: Not Your Average “Special K”. Presented at 2013 Southwestern and California Association of Toxicologists, Las Vegas, NV
50. **Sabra R. Botch-Jones**. “The Case of the Disappearing Mephedrone”. Presented at 2013 CoSMoS Annual Meeting: Conference of Small Molecule Sciences, San Diego, CA
51. **Sabra R. Botch-Jones**. “The Stability of Four Designer Drugs: MDPV, Mephedrone, BZP and TFMPP in Three Biological Matrices Under Various Storage Conditions”. Presented at 2013 Spring Meeting Southwestern Association of Toxicologists, Fort Worth, TX
52. **Sabra R. Botch**. “Redesigning Designer Drugs “. Presented at 2012 Current Trends in Forensic Science Annual Meeting. Fort Worth, TX
53. **Sabra R. Botch.** “Identification and Quantitation of N-benzylpiperazine (BZP) and 1-(3-trifluoromethylphenyl)piperazine (TFMPP) in Postmortem Samples.” Presented at 2011 Fall Meeting of the Southwestern Association of Toxicologists, Wichita, KS
54. **Sabra R. Botch**. “Mass Disaster and Toxicology: The Role of Toxicological Findings in Aviation Accidents” Presented at 2011 Current Trends in Forensic Science Annual Meeting. Fort Worth, TX
55. **Sabra R. Botch**, Connie Lewis, Joyce Ho, Beryl Landry, Cheryl Wheeler, Angela Springfield. Method Validation of Analysis of Liquid Biological Specimens and Matrix Effects: Sympathomimetic Amines, Cocaine/Cocaine Metabolites and Other Analytes. Presented at 2010 Society of Forensic Toxicology Annual Meeting. Richmond, VA
56. **Sabra R. Botch** and Robert D. Johnson. Alcohol Related Aviation Accidents Involving Pilots with Previous Alcohol Offenses. Presented at 2008 Society of Forensic Toxicology Annual Meeting. Phoenix, AZ
57. **Sabra R. Botch** and Robert D. Johnson. Antiemetics With Concomitant Sedative Use in Civil Aviation Pilot Fatalities: From 2000 to 2006. Office of Aerospace Medicine Report. (DOT/FAA/AM-07/29) Presented at 2007 Society of Forensic Toxicology Annual Meeting. Raleigh Durham, NC
58. **Sabra R. Botch**, Russell J. Lewis, Robert D. Johnson and Dennis V. Canfield. The Prevalence of Illicit Drugs in US Aviation Accident Pilot Fatalities Between 1995 and 2004: Part III, Methamphetamine. 2006 Aerospace Medical Association Scientific Annual Meeting.
59. Russell J. Lewis, Robert D. Johnson, **Sabra R. Botch**, and Dennis V. Canfield. The Prevalence of Illicit Drugs in US Aviation Accident Pilot Fatalities Between 1995 and 2004: Part II, Cocaine. 2006 Aerospace Medical Association Scientific Annual Meeting
60. Robert D. Johnson, **Sabra R. Botch**, Russell J. Lewis and Dennis V. Canfield. The Prevalence of Illicit Drugs in US Aviation Accident Pilot Fatalities Between 1995 and 2004: Part I, Marijuana. 2006 Aerospace Medical Association Scientific Annual Meeting

**Community Outreach:**

1. Boston University GROW Program: Greater Boston Area Research Opportunities for Young Women. What is Forensic Science and Forensic Toxicology? August 4, 2017. July 13, 2018 Boston, MA
2. Boston University Summer Pathways Program. What is Forensic Science? July 13, 2017. Boston, MA
3. Boston Museum of Science. Innovation in Action Keynote Speaker February 9, 2018, Girls in STEM, Guest Educator. November 5, 2016, November 4, 2017, January 18, 2019Boston, MA
4. Newman International Academy. What is Forensic Toxicology? October 18, 2016. Arlington, TX
5. Chelsea High School's Law and Public Policy. What is Forensic Toxicology? December 20, 2018, October 20, 2017 and September 19, 2016. Somerville, MA
6. Boy Scouts of America: CSI Event. March 1, 2018. Wakefield, MA