

Curriculum Vitae

Dr. Curt E. Harper

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Education:

- 2002-2007 University of Alabama at Birmingham (Birmingham, AL)
School of Medicine – Department of Pharmacology and Toxicology
Doctor of Philosophy (Ph.D.) in Pharmacology and Toxicology
- 2001-2002 University of Alabama at Birmingham (Birmingham, AL)
Department of Justice Sciences
Masters of Science in Forensic Science (MSFS)
- 1997-2001 Brescia University (Owensboro, KY)
Bachelors of Science (BS) [*Triple major*]
(1) Biology (2) Chemistry (3) Computer and Mathematical Science
Summa cum laude

Certifications:

- Fellow of the American Board of Forensic Toxicology (F-ABFT) [2013-Current]
- Drug Recognition Expert (DRE) [2015-Current]
- Drug Recognition Expert (DRE) Instructor [2016-Current]
- Advanced Roadside Driving Enforcement (ARIDE) Instructor [2016-Current]
- Standardized Field Sobriety Test (SFST) Instructor [2016-Current]

Work Experience (Over 10 years as a Forensic Toxicologist):

- 4/2012 – Present Alabama Department of Forensic Sciences
Section – Toxicology (Birmingham, AL)
Toxicology Discipline Chief
- 5/2010 – 4/2012 Virginia Department of Forensic Science
Section – Toxicology (Richmond, VA)
Forensic Toxicology Supervisor
- 6/2009 – 5/2010 Alabama Department of Forensic Sciences
Section – Toxicology (Mobile, AL)
Toxicology Section Chief

6/2008 – 5/2010 Alabama Department of Forensic Sciences
Section – Toxicology (Hoover, AL)
Driving Under the Influence of Drugs (DUID) Coordinator

10/2007 – 6/2008 Alabama Department of Forensic Sciences
Section - Implied Consent (Calera, AL)
Forensic Scientist I

2002-2007 Ph.D. Candidate
University of Alabama at Birmingham, Birmingham, AL
Department of Pharmacology and Toxicology

Summer 2002 Student Internship
U.S. Department of Justice
Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF), Atlanta, GA
Focus: Arson and Explosives Investigation

2001-2002 Teaching and Research Assistant
University of Alabama at Birmingham, Birmingham, AL
Department of Justice Sciences – Forensic Science
Focus: Forensic Toxicology

1999-2001 Research and Development Technician
Daramic Inc., Owensboro, KY
Focus: Battery Separator Applications

Professional Memberships:

2009-Present Society of Forensic Toxicologists (*SOFT*)

2012-Present International Association for Chemical Testing (*IACT*)

2009, 2018 The International Association of Forensic Toxicology (*TIAFT*)

2004-2008 Society of Toxicology (*SOT*)

2003-2008 Southeastern Society of Toxicology (*SESOT*)

2001-2003 American Academy of Forensic Science (*Section – Toxicology*)

Committees:

2016-Present SOFT/AAFS Oral Fluid Subcommittee

2015-Present OSAC Toxicology Subcommittee - Affiliate

2014-Present IACT Treasurer

2013-Present SOFT Drugs and Driving Committee Member

- 2013-Present Alabama Impaired Driving Prevention Council
- 2013-Present IACT Training Committee Member
- 2013 Young Forensic Toxicologists Committee Member

Honors and Awards:

- 2014 Paul E. Shoffeitt Distinguished Service Award
Alabama Department of Forensic Sciences
- 2009 Forensic Toxicology Training Program Certification - Permit # T019
Alabama Department of Forensic Sciences
- 2008 Alabama Peace Officers Standards and Training Commission
145th Academic Award (Top in Class)
- 2005 Society of Toxicology (SOT)
Annual Meeting, New Orleans, LA
Graduate Student Travel Award
- 2003 Southeastern Society of Toxicology (SESOT)
Annual Meeting, Chattanooga, TN
3rd Place Research Poster Abstract
- 2003 Forensic Science Graduate Student of the Year
University of Alabama at Birmingham

Training Courses, Meetings, and Workshops attended:

- 2017 SOFT Workshop – Drug-Facilitated Crime in the 21st Century (Boca Raton, FL)
- 2017 IACT Annual Meeting (Colorado Springs, CO)
- 2016 Green Lab, Dosing and Observation – Understanding Legal Marijuana – DRE Track (Denver, CO).
- 2016 International Association of Chief of Police (Drug Recognition Expert) Annual Meeting (Denver, CO)
- 2016 SOFT Workshop – Postmortem Interpretation of Toxic Pharmacodynamic Interactions (Dallas, TX)
- 2016 SOFT Workshop – Texas Medical Toxicology Detectives: From the Case Files of Parkland Hospital (Dallas, TX)
- 2016 IACT Annual Meeting (Orlando, FL)
- 2015 SOFT Workshop – Management Practices in Forensic Toxicology (Atlanta, GA)

2015 IACT Annual Meeting (Newport, RI)

2014 SOFT Workshop – Oral Fluid Testing: Basic Science and Practical Applications (Grand Rapids, MI)

2014 IACT Annual Meeting (Newport Beach, CA)

2013 SOFT Annual Meeting (Orlando, FL)

2012 SOFT Workshop – Contemporary Issues in Drunk Driving & Driving Under the Effects of Drugs (Boston, MA)

2011 Midwest Forensic Resource Center – Postmortem Toxicology Course (Ames, IA)

2011 SOFT Workshop – Spice Detection in Various Biological Matrices (San Francisco, CA)

2011 ASCLD/LAB-*International* Measurement Confidence Level 100 Traceability, Measurement Assurance and Measurement Uncertainty Web-Based Training Course

2010 SOFT Workshop – To Err is Human ... To Identify is Divine (Richmond, VA)

2010 SOFT Workshop – DFSA Applications & Interpretations (Richmond, VA)

2010 SOFT Workshop – A Stroll through the Cannabinoid Field: Pharmacology, Therapeutics, and Untoward Effects (Richmond, VA)

2010 Introduction to LC/MS/MS for Forensic Toxicology (Cedar Crest College)

2009 Blood Alcohol Concentration-Tracker Certification and Training (Atlanta, GA)

2009 Toxicology Analysis for Drugs in Blood Using LC/MS/MS Georgia Bureau of Investigation – Division of Forensic Sciences (Atlanta, GA)

2009 37th Annual FBI Crime Laboratory Development Symposium (Madison, WI)

2009 Robert F. Borkestein Course on the Effects of Drugs on Human Performance and Behavior (Bloomington, IN)

2008 Alabama Peace Officer Standards and Training Certification Jacksonville Police Academy (Jacksonville, AL)

2007 Draeger Alcotest 7110 MKIII Operator Certification (Permit D00016)

2007 IACT Annual Meeting (Phoenix, AZ)

2007 Robert F. Borkestein Course on Alcohol and Highway Safety: Testing, Research, and Litigation (Bloomington, IN)

2002 AAFS Annual Meeting (Chicago, IL)

2001 AAFS Annual Meeting (Atlanta, GA)

Forensic Toxicology Testimony Experience:

Virginia Department of Forensic Science: > 50 times

Alabama Department of Forensic Sciences: > 110 times

Total: >160 times

Teaching Experience:

2015-Present Alcohol Course Faculty
Indiana University
Robert F. Borckenstein Course on Alcohol and Highway Safety

2007-10, 2012-15 Adjunct Professor
University of Alabama at Birmingham
Department of Justice Sciences – Forensic Science
JS 567 – Forensic Toxicology [2012-present]
JS 677 – Advanced Forensic Toxicology [2015-present]

2007-2008, 2012 APOST - Police Academy Invited Instructor

2009-2010 Guest Lecturer
University at South Alabama
Department of Political Science and Criminal Justice

Platform Presentations and Workshops

2017 Society of Forensic Toxicologists (SOFT) Annual Meeting (Boca Raton, FL) Harper, CE. Establishing an Oral Fluid Drug Testing Program in Alabama. *Platform Presentation.*

2017 AAA Impaired Driving Summit (Montgomery, AL). Harper CE. ADFS Toxicology, DUI Statistics, and the Opioid Epidemic. *Platform Presentation.*

2017 Agilent-sponsored RTI Lecture. Harper, CE, Hudson, J., Shonsey, E. Non-Pharmaceutical Fentanyl: Pharmacology and Trends. *Webinar.*

2017 Radox Toxicology Scientific Session [Scotland]. Harper, CE. Detection of Drugs of Abuse Using the Radox Evidence Analyzer and MultiStat in Blood, Urine, and Oral Fluid. *Platform Presentation.*

2017 Fall Municipal Law Conference (Orange Beach, AL). Harper CE. The Impact of Marijuana Legalization and an Update on the Opioid Epidemic. *Platform Presentation.*

2017 International Association for Chemical Testing (IACT) Annual Meeting [Colorado Springs, CO]. Harper, CE. Alabama's Oral Fluid Study Using the Draeger DT5000, Alere DDS2, and Radox Evidence MultiSTAT with LC/MS/MS confirmation. *Platform Presentation.*

2017 *International Association for Chemical Testing (IACT) Annual Meeting [Colorado Springs, CO]*. Harper, CE, Sanders, J., Sparks, M, Pevey, M., et al. Leadership and Management. *Workshop*.

2016 *Fall Municipal Law Conference (Orange Beach, AL)*. Harper CE and Hughes B. Confronting the Confrontation Clause: Who is a Necessary Witness for a Toxicology Report? *Platform Presentation*.

2016 *Society of Forensic Toxicologists (SOFT) Annual Meeting (Dallas, TX)*. Harper, et al. Evaluation of the 20-target DUID Biochip with the Randox Evidence Analyzer. *Platform Presentation*.

2016 *Randox Toxicology Scientific Session [Scotland]*. Evaluation of the 20 target ULTRA/DUID Biochip with Randox Evidence Analyzer in Blood, Urine, and Oral Fluid. *Platform Presentation*.

2016 *International Association for Chemical Testing (IACT) Annual Meeting [Orlando, FL]*. Harper, C.E., Durbin, T., et al. The Drug Recognition Program with Demonstration DRE Evaluation and Mock Court. *Workshop*.

2015 *Randox Toxicology Scientific Session [Scotland]*. Alabama Increase in Heroin and Fentanyl Overdoses Screened using Randox Toxicology Custom Biochip. *Platform Presentation*.

2015 *Society of Forensic Toxicologists (SOFT) Annual Meeting (Atlanta, GA)*. Harper, C.E., Sanders, J., Sparks, M, Pevey, M., et al. Leadership and Management. *Workshop*.

2015 *International Association for Chemical Testing (IACT) Annual Meeting [Newport, RI]*. Harper, C.E., Wagner, B., et al. Uncertainty of Measurement. *Workshop*.

2015 *National Traffic Safety Resource Prosecutor Webinar Series*. Harper, C.E. and Hughes, B. The Myth of the DUI Defense: Rising BAC. *Webinar*.

2014 *Society of Forensic Toxicologists (SOFT) Annual Meeting [Grand Rapids, MI]*. Harper, C.E., Miles, A., et al. The Drug Recognition Program with Demonstration DRE Evaluation and Mock Court. *Workshop*.

2014 *Randox Toxicology Scientific Session [Scotland]*. Validation & Implementation of the Evidence Biochip Array Technology for Drugs of Abuse Testing in a Public Forensic Laboratory. *Platform Presentation*.

2014 *International Association for Chemical Testing Annual Meeting [Newport Beach, CA]*. Harper, C.E. and Williams P. Low Blood Alcohol Concentrations and Driving – Evidence for Lowering the Per se Law for Alcohol to 0.05%. *Workshop*.

2013 *Society of Forensic Toxicologists (SOFT) Annual Meeting [Orlando, FL]*. Harper, C.E. Limoges, J., Moore, C., Raymon, L., Huestis, M., Johnson, W. Marijuana: Old Drug, New Data: Expert Testimony. *Workshop*.

2013 *Society of Forensic Toxicologists (SOFT) Annual Meeting [Orlando, FL]*. Harper, C.E. Sanders, J., Ellis, K. Alprazolam – Alabama’s Most Prevalent Drug in DUID Cases. *Platform Presentation*.

2013 *Drug Recognition Expert Annual Meeting [Oklahoma City, OK]*. Harper, C.E. and Hughes B. Ask this, not that – Driving Under the Influence of Drugs. *Platform Presentation*.

2013 *International Association for Chemical Testing (IACT) Annual Meeting [Minneapolis, MN]*. Harper, C.E. Pevey, M., Lohmann, A, Kennedy, M. Alcohol Pharmacology and Special Topics. *Workshop*.

2013 International Association for Chemical Testing (IACT) Annual Meeting [Minneapolis, MN]. Harper, C.E. Difluoroethane and Driving. *Platform Presentation.*

2013 Practical Criminal Defense Law [Tuscaloosa, AL]. Harper, C.E. Driving Under the Influence of Drugs. *Platform Presentation.*

2012 NHTSA Region IV - Prosecuting the Drugged Driver (Current National Issues and Strategies) [St. Simons, GA]. Harper, C.E. The Toxicology of Drug-Impaired Driving: An Overview. *Platform Presentation.*

2012 Alabama State Association of Forensic Sciences (ASAFS) [Gulf Shores, AL]
Harper, C.E. Emerging Drugs in Toxicology. *Platform Presentation.*

2012 Alabama District Attorneys Association Summer Conference [Orange Beach, AL]. Harper, C.E., Sanders, J., Hughes, B. Ask This, Not That – Forensic Toxicology. *Platform Presentation.*

2012 Society of Forensic Toxicology (SOFT) Annual Meeting. [Boston, MA]
Harper, C.E., Hudson, J., Lawrence E. Driving under the Influence of Drugs Involving Phenazepam in Virginia. *Platform Presentation.*

2010 AAMA/AMJA Spring Municipal Law Conference
Harper, C.E. Toxicology at Your Service – DUID Cases. *Platform Presentation.*

2010 AAMA/AMJA Spring Municipal Law Conference
Harper, C.E. Toxicology at Your Service – DUID Cases. *Platform Presentation.*

2008 Cumberland Law School DUI Conference
Harper, C.E., Pevey, M.A., and Carpenter, D.A. Saliva Drug Testing Using the Draeger Drug Check 5000. *Platform Presentation.*

2008 Hoover Municipal Judge's and Prosecutor's Conference
Harper, C.E., Pevey, M.A., and Carpenter, D.A. Saliva Drug Testing Using the Draeger Drug Check 5000. *Platform Presentation.*

2006 Environmental Mutagen Society 37th Annual Meeting, Vancouver, British Columbia, Canada
Harper, C.E., Patel, B.B., Wang, J. and Lamartiniere, C.A. Prostate Cancer Chemoprevention Using Dietary Polyphenol Resveratrol. *Platform Presentation.* The Role of Dietary Supplements and Food in Human Health.

2006 American Association of Cancer Research 97th Annual Meeting, Washington, DC
Harper, C.E., Patel, B.B., Wang, J. and Lamartiniere, C.A. Epigallocatechin-3-gallate (EGCG) down-regulates the androgen receptor and the IGF pathway in the prostate of TRAMP mice. *Platform Presentation.*
Prevention Research 10: Tea Catechins.

Publications:

Hudson, JS, Hutchings, JW, Wagner, RL, Harper, CE, Friel, PN (2013) Benzodiazepine and Z- Drug Quantitation Using an Agilent 6430 LC/MS/MS. Agilent Application Notes, Agilent Technologies.

Hudson, JS, Hutchings, JW, Wagner, RL, Harper, CE, Friel, PN (2013) Validation of a Benzodiazepine and Z- Drug Method Using an Agilent 6430 LC/MS/MS. Agilent Application Notes, Agilent Technologies.

Hudson, JS, Hutchings, JW, Wagner, RL, Harper, CE, Friel, PN (2013) Cannabinoid Quantitation Using an Agilent 6430 LC/MS/MS. Agilent Application Notes, Agilent Technologies

Hudson, JS, Hutchings, JW, Wagner, RL, Harper, CE, Friel, PN (2013) Validation of a Cannabinoid Quantitation Method Using an Agilent 6430 LC/MS/MS. Agilent Application Notes, Agilent Technologies.

Harper, C.E., Patel, B.B., Wang, J., Eltoum, I.A., and Lamartiniere, C.A. Genistein and Resveratrol, Alone and in Combination, Suppress Prostate Cancer in SV-40 Tag Rats. *The Prostate*. 2009.

Harper, C.E., Patel, B.B., Wang, J., Eltoum, I.A., and Lamartiniere, C.A. Characterization of adenocarcinoma in SV-40 Tag transgenic rats as a model to study prostate cancer. *BMC Cancer*. 2009. Jan 26;9:30.

Harper, C.E., Patel, B.B., Wang, J., Eltoum, I.A., and Lamartiniere, C.A. EGCG suppresses high-grade prostatic intraepithelial neoplasia, but not late-stage prostate cancer, in TRAMP mice: Mechanisms of action. *The Prostate*. 2007. 67(14):1576-1589.

Harper, C.E., Patel, B.B., Wang, J., Eltoum, I.A., and Lamartiniere, C.A. Resveratrol suppresses prostate cancer progression in transgenic mice. *Carcinogenesis*. 2007. 9:1946-53.

Kidwell D.A., Kidwell J.D., Shinohara F, Harper C.E., Roarty K., Bernadt K., McCaulley R.A., Smith F.P. Comparison of daily urine, sweat, and skin swabs among cocaine users. *Forensic Science International*. 2003. 133: 63-78.