

Curriculum Vitae

Brittany Ball

Forensic Scientist

Washington State Toxicology Laboratory
2203 Airport Way South, Suite 360
Seattle, WA 98134

Employment:

- **Forensic Toxicologist-** Washington State Toxicology Laboratory, Seattle, WA. March 2007 to Present.
- **Forensic Toxicology Intern-** San Diego Reference Laboratory, San Diego, CA. February 2006 to February 2007.
- **Undergraduate Research Assistant-** Biology Department, University of Idaho, Moscow, ID. August 2004 to August 2005.
- **Quality Control Laboratory Assistant-** Twin City Foods, Inc., Lewiston, ID. Summer Harvest (June-August): 2001, 2002, 2003, & 2004.

Education:

- **Masters of Forensic Science-** Specialization in Criminalistics, National University, San Diego, CA. April 2008.
- **Bachelor of Science-** Biology, University of Idaho, Moscow, ID. May 2005.

Training:

- American Academy of Forensic Sciences 66th Annual Meeting. Seattle, WA. February 17-22, 2014.
- ASCLD-LAB-International Internal Auditor Training Course. Presented by Emma Dutton. Seattle, WA. January 28-31, 2014.
- Bath Salts 101. Presented by Lieutenant Tom Regan, Bangor, Maine Police Department. 18th Annual Training Conference on Drugs, Alcohol & Impaired Driving, Seattle, WA. August 17, 2012. 1 hour.
- Narcotic Analgesics and Other New Opiates. Presented by Dr. Marc Gonzalez, Perdue Pharma. 18th Annual Training Conference on Drugs, Alcohol & Impaired Driving, Seattle, WA. August 17, 2012. 1 hour.
- Medical Conditions Which Sometimes Mimic Drug Impairment. Presented by Dr. Jack Richman, Massachusetts and Dr. Don Alves, Maryland State Police Medical Unit. 18th Annual Training Conference on Drugs, Alcohol & Impaired Driving, Seattle, WA. August 16, 2012. 1 hour.
- Physiological and Psychophysical Effects of Cannabis Intoxication. Presented by Dr. Carl Citeck. 18th Annual Training Conference on Drugs, Alcohol & Impaired Driving, Seattle, WA. August 16, 2012. 1 hour.
- Bloodstain Pattern Analysis II. Presented by Bevel, Gardner, and Associates. WSP Academy, Shelton, WA. January 9-13, 2012.

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- General Crime Scene Response Training (in house training and review of various topics including trace evidence, firearms/trajectory analysis, impressions, photography, and latent prints). Presented by WSP CSRT Forensic Scientists: JoAnne Marzowski, Kathy Geil, and Jim Luthy. February 23-24, 2011. 16 hours.
- Horizontal Gaze Nystagmus. Presented by Dr. Karl Citeck, OD, PhD, FAAO. January 5, 2011. 3 hours.
- Spice/K2 presentation. Presented by Jennifer Messick, Anchorage Alaska TSRP. Seattle, WA December 9, 2010; 1hour.
- AFIS: Latent Finger Print Training. Presented by the FBI, CJTC Burien, WA. November 16, 2010; 9 hours.
- Robert F. Borkenstein Course: The Effects of Drugs on Human Performance and Behavior. Center for Studies of Law in Action, Indiana University April 11-16, 2010; 40 hours.
- Firearms, Trajectories, and Shooting Reconstruction. Presented by WSP Crime Lab firearms examiners. October 28-29, 2009. 16 hours.
- Buried Body Recovery and Entomology. Presented by Dr. Marshal of WSU. August 5-7, 2009. 24 hours.
- NHTSA SFST Course. Presented by Seattle PD. May 11-13, 2009. 24 hours.
- The Importance of Managing Police Fatigue. Presented by WSP. April 30, 2009. 4 hours.
- Basic Bloodstain Pattern Analysis. Presented by Michael Maloney and Tom Bevel. February 2-6, 2009. 40 hours.
- Advanced Roadside Impaired Driving Enforcement (A.R.I.D.E.). Class created by NHTSA and presented by Seattle Police Department. November 24-25, 2008. 16 hours.
- Z Drugs: from Analysis to Interpretation. Presented by RTI International and the National Institute of Justice. Instructor: H. Chip Walls. June 16, 2008. 1 hour.
- Horizontal Gaze Nystagmus. Presented by Dr. Karl Citeck, OD, PhD, FAAO. April 23, 2008. 4 hours.
- Phenylthalline and acid phosphatase. Presented by Brian Smelser. April 16, 2008. 4 hours.
- Olympus AU400: Continuing Education Units: Maintenance, Operation, and Troubleshooting. Olympus America Inc. March 2008; 4 hours.
- Technical Report Writing. Presented by Peabody Writing Services. January 30-31, 2008. 14 hours.
- Courtroom Testimony: Success Instead of Survival. Ron Smith and Associates, Inc. January 28-29, 2008. 16 hours.

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- Wet Lab with Driving Impairment Section: Testing out prospective BAC instruments and observing administration of SFSTs on drinking volunteers. WSP Driving Impairment Section. January 10, 2008; 4 hours.
- GC Chromatography Seminar: Care and Maintenance, Troubleshooting, and Faster GC Analysis. Presented by Daron Decker of Agilent. 10/2/2007; 3 hours.
- Robert F. Borkenstein Course on Alcohol and Highway Safety: Testing, Research, and Litigation: Center for Studies of Law in Action, Indiana University 5/6-5/11/2007; 40 hours.

Topics in Toxicology Training (WSP Tox. Lab):

- Postmortem Distribution and Redistribution. Barry K. Logan. March 3, 2008.
- Adverse Effects of Cannabis on Driving. Barry K. Logan. February 27, 2008.
- Toxicology Considerations for Alcohol Detection in Motor Vehicle Operators. Barry K. Logan. January 23, 2008.
- DRE : Overview of SFSTs and other Field Sobriety Tests. Sgt. Rob Sharpe (WSP). January 16, 2008.
- Forensic Applications of Widmark's Formula. Patrick Friel. January 2, 2008.
- A Short Series of Deaths Involving MDMA. Barry K. Logan. December 12, 2007.
- Pharmacodynamics and Pharmacokinetics following controlled administration of oral MDMA to young adult MDMA users. Erin Kolbrich. December 12, 2007.
- Forensic Toxicology of Methamphetamine. Barry K. Logan. November 15, 21, 28, 2007.

Licenses and Certifications:

- **New Method Certifications/Authorizations:**
 - Opiates: 6-acetylmorphine, codeine, hydrocodone, hydromorphone, morphine and oxycodone by LCMS. Effective September 1, 2011.
 - Cocaine: cocaine, benzoylecgonine, and cocaethylene by GCMS. Effective November 10, 2011.
 - Barbiturates by GCMS. Effective December 19, 2011.
 - Cannabinoids by GCMS (archived method). Effective March 1, 2012.
 - Carboxyhemoglobin by CO-oximetry. Effective March 30, 2012.
 - Phencyclidine by GCMS. Effective July 6, 2012.
 - Carisoprodol and meprobamate by GCMS. Effective July 16, 2012.
 - Amphetamines by GCMS. Effective September 6, 2012.

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- Basic drug identification/confirmation by GC/MS/NPD. Effective October 3, 2012.
- Fentanyl by GCMS. Effective December 20, 2013.
- Cannabinoids by GCMS (current method). Effective April 12, 2013.
- Opiates by liquid chromatography-tandem mass spectrometry. Effective April 18, 2013.
- Benzodiazepines, quetiapine and zopiclone by LCMSMS. Effective September 10, 2013.
- Methadone by LCMS. Effective December 30, 2013.
- **Casework Certification**-Certified to test for the presence of drugs in biological fluids, analyze casework, and perform all the duties of a forensic toxicologist. Effective January 2, 2008.
- **Cocaine/Opiate Analysis Certification**- Certified to analyze and quantify submitted samples for the presence of cocaine, cocaethylene, benzoylecognine, morphine, codeine, 6-mono acetylmorphine, hydrocodone, oxycodone, hydromorphone and to collect experimental data on morphine-3-glucuronide and oxymorphone. Effective October 30, 2007.
- **THC Analysis Certification**- Certified to analyze and quantify submitted samples for the presence of THC and the major metabolite carboxy-THC. Effective July 5, 2007.
- **Blood Alcohol Analyst Permit**- Issued by the Washington State Toxicologist. Effective March 22, 2007 (Re-issue dates: March 22, 2010; March 11, 2013).