

Curriculum Vitae

Rebecca Flaherty

Forensic Toxicologist

Washington State Toxicology Laboratory
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Education:

- M.S.F.S Forensic Science, Sam Houston State University, Huntsville, TX May 2006
 - **Toxicology Internship** May 2005 – July 2005
Ameritox, LLC. – Midland, TX

Internship in postmortem toxicology and therapeutic monitoring by urine analysis. Experiences include maintenance of chain of custody, preparation of tissue samples, solid phase extraction, ELISA immunoassay, preparation of internal controls, GC-FID, GC/MS and spectral interpretation. Projects included internal standard validation study and ritalinic acid method development.

- B.S. Biochemistry and Psychobiology, UCLA, Los Angeles, CA June 2004

Employment:

1. **Forensic Scientist 3** April 2010 – Present
Washington State Toxicology Laboratory – Seattle, WA

Analyze biological specimens for the presence of drugs and alcohol using a variety of scientific instrumentation. Prepare and certify external standard solution for use with the BAC Datamaster. Provide expert testimony.
2. **Forensic Scientist 2** February 2008 – April 2010
Washington State Toxicology Laboratory – Seattle, WA

Analyze biological specimens for the presence of drugs and alcohol using a variety of scientific instrumentation. Prepare and certify external standard solution for use with the BAC Datamaster. Provide expert testimony.
3. **Forensic Scientist 1** February 2007 – February 2008
Washington State Toxicology Laboratory – Seattle, WA

Analyze biological specimens for the presence of drugs and alcohol using a variety of scientific instrumentation. Prepare and certify simulator solution for use with the BAC Datamaster.
4. **Chemistry Teaching Assistant** September 2005 – December 2005
Sam Houston State University – Huntsville, TX

Teaching experience in two first semester freshmen and one sophomore level organic chemistry laboratories. Responsibilities included supervision of laboratory exercises, preparation of weekly quizzes, grading of submitted science, and class presentations on relevant course material.

5. **Laboratory Assistant 1** September 2003 – June 2004
UCLA Pasarow Mass Spectrometry Laboratory – Los Angeles, CA

Duties included daily operation and maintenance of several high-pressure liquid chromatography and mass spectrometry instruments. Experience in the preparation and digestion of proteins for analysis, preparation of buffer solutions and training of outside personnel in instrument operation. Focus project: Determination and analysis of the *Synechocystis* 6803 proteome.

6. **Laboratory Volunteer** July 2003 – September 2003
UCLA Pasarow Mass Spectrometry Laboratory – Los Angeles, CA

Duties included daily operation and maintenance of several high-pressure liquid chromatography and mass spectrometry instruments. Experience in the preparation and digestion of proteins for analysis, preparation of buffer solutions and training of outside personnel in instrument operation.

Permits:

- Biological Fluid Drug Analysis Permit January 2008
Washington State Toxicology Laboratory
- Blood Alcohol Analysis Permit March 2007
Washington State Toxicology Laboratory

Courses and Training:

- **Advances in Forensic Analysis: When to use GC-MS/MS, LC-MS/MS & HRMS.** Sponsored by ThermoFisher Scientific. Attended online March 29, 2017.
- **Exploiting the Power of LC/TOF Data Mining.** Sponsored by National Institute of Justice and RTI International. Attended online March 1, 2017.
- **Troubleshooting LC-MS.** Sponsored by CHROMacademy. Attended online February 28, 2017.
- **Medical Cannabis & Public Health Implications.** Sponsored by NMS Labs. Attended online January 13, 2017.
- **Synthetic Cannabinoids.** Sponsored by the Center for Forensic Science Research and Education. Attended online November 24, 2015 - January 14, 2016.
- **Expert Testimony Training for the Prosecutor and Scientist II.** Online continuing education sponsored by the National Institute of Justice and the Center for Forensic Sciences at RTI International. September 22, 2014.
- **ASCLD/LAB-ISO Internal Auditor Training Course,** Seattle, WA January 28-31, 2014.
- **18th Annual Training IACP Conference on Drugs, Alcohol & Impaired Driving,** Seattle, WA. August 16-17, 2012.
 - **Bath Salts 101.** Presented by Lieutenant Tom Regan, Bangor, Maine Police Department.
 - **Narcotic Analgesics and Other New Opiates.** Presented by Dr. Marc Gonzalez, Perdue Pharma.
 - **Medical Conditions Which Sometimes Mimic Drug Impairment.** Presented by Dr. Jack Richman, Massachusetts and Dr. Don Alves, Maryland State Police Medical Unit.

- **Physiological and Psychophysical Effects of Cannabis Intoxication.** Presented by Dr. Carl Citek
- **Drug Facts – A DFSA Perspective.** Online continuing education sponsored by the National Institute of Justice and the Center for Forensic Sciences at RTI International. October 20, 2011.
- **Postmortem Toxicology: Interpretive Considerations & Challenges.** Midwest Forensics Resource Center. Ames, IA. October 4-7, 2011.
- **Horizontal Gaze Nystagmus.** Dr. Karl Citek, Seattle, WA. January 5, 2011.
- **Spice/K2 Presentation (DRE0178).** Jennifer Messick (Anchorage TSRP). Seattle, WA December 8, 2010.
- **Expert Testimony Training 1.** Online continuing education sponsored by the National Institute of Justice and the Center for Forensic Sciences at RTI International. July 23, 2010.
- **The Robert F. Borkenstein Course on The Effects of Drugs On Human Performance and Behavior.** Indiana University, Bloomington, IN. April 11-16, 2010.
- **Best Practices for Volumetric Measurement.** Online continuing education sponsored by the National Institute of Justice and the Center for Forensic Sciences at RTI International. December 28, 2009.
- **NHTSA Standardized Field Sobriety Test Training.** Presented by Seattle Police Dept., Washington State Patrol (Impaired Driving Section). Seattle Police Department Training Facility: Seattle, WA. May 13, 2009.
- **Intro to Uncertainty in Forensic Chemistry & Toxicology, Part III.** Online continuing education sponsored by the National Institute of Justice and the Center for Forensic Sciences at RTI International. March 31, 2009.
- **Intro to Uncertainty in Forensic Chemistry & Toxicology, Part 2 Live Examples.** Online continuing education sponsored by the National Institute of Justice and the Center for Forensic Sciences at RTI International. March 17, 2009.
- **Intro to Uncertainty in Forensic Chemistry & Toxicology.** Online continuing education sponsored by the National Institute of Justice and the Center for Forensic Sciences at RTI International. March 3, 2009.
- **Advanced Roadside Impaired Driving Enforcement.** Presented by Seattle Police Dept., Washington State Patrol (Impaired Driving Section). Seattle Police Department Training Facility: Seattle, WA. November 24-25, 2008.
- **Opioids and Pain Management.** Online continuing education sponsored by the National Institute of Justice and the Center for Forensic Sciences at RTI International. June 19, 2008.
- **Z Drugs, From Analysis to Interpretation.** Online continuing education sponsored by the National Institute of Justice and the Center for Forensic Sciences at RTI International. June 16, 2008.
- **Fundamentals of LC/MS/MS.** Online continuing education sponsored by the National Institute of Justice and the Center for Forensic Sciences at RTI International. June 11, 2008.
- **Horizontal Gaze Nystagmus.** Dr. Karl Citek, Washington DEC Program, Bainbridge Island, WA. April 23, 2008.

- **Olympus AU400e Training.** Olympus America, Inc. Diagnostic Systems Group: Seattle, WA, March 4-5, 2008.
- **Courtroom Testimony Techniques-Success Instead of Survival.** Ron Smith and Associates, Inc. Seattle, WA. January 28-29, 2008.
- **The Robert F. Borckenstein Course on Alcohol and Highway Safety: Testing, Research, and Litigation.** Indiana University, Bloomington, IN. May 6-11, 2007.