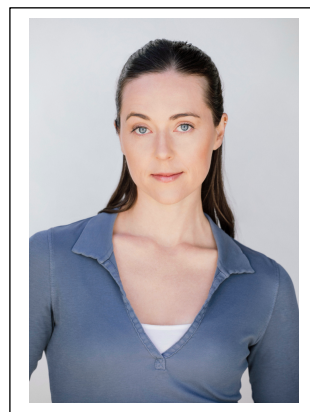


**Esther M. Krimmel, M.S.**  
**Associate Toxicologist**

Paustenbach and Associates  
970 West Broadway  
Suite E  
Jackson, WY 83001

(370) 920 - 0433  
esther@paustenbachandassociates.com



### **Education and Degrees Earned**

- M.S. Toxicology, Colorado State University
- Bachelor's Degree in Biology (pre-med), Cal Poly Pomona

### **Professional Honors/Awards/Certifications**

- Honor Society CSU
- Certificate of Leadership CPP
- Responsible Conduct of Research (RCR) and Good Laboratory Practices (GLP) Certificates
- American Heart Association - First Aid/CPR AED Certified

### **Membership and Service to Professional Societies**

- pending approval in Society of Toxicology (Associate Member)

### **Experience Summary (Professional Career)**

**Paustenbach and Associates**  
**Associate Toxicologist**  
**Jackson Hole, Wyoming Office**  
**December 2019 - Present**

- Consultant in toxicology, occupational health, industrial hygiene, risk assessment, ecotoxicology, state of the art, and safety
- Specializing in asbestos, talc, airborne particles, silica, e-cigarettes (vaping), radionuclides, environmental toxicology, and carbon monoxide poisoning

- Involved in litigation work, interpreting toxicological studies, conducting exposure assessments, assessing mathematical models for dose-response curves, and characterizing risks posed by chemicals in the environment

**Okorie Okorochoa, Forensic Toxicologist & Trial Lawyer**

**Toxicology Intern/Assistant**

**Pasadena Office**

**May 2018 – Aug 2019**

- Forensic toxicological research on analytical chemistry, pharmaceuticals, illicit drug and alcohol toxicological studies as well as substance abuse/chemical dependence and addiction in adolescents and adults

**Key Projects (Partial List)**

1. **Assessment of the impact of having about 1% of soil samples replaced by staff at the Hunter's Point site.** Reviewed all the available information and assembled a scope of work to conduct a sensitivity analysis and risk assessment. Evaluation of claims that airborne dust from a former Naval site posed a cancer hazard to the community. It was claimed that hundreds of persons who lived within ¼ mile of a former Naval base had been exposed to airborne dust (soil) from the facility and that it had entered their homes and was causing adverse health effects. We evaluated the air and dust data; then conducted an assessment (Winter 2019 - Summer of 2020).
2. **Assessment of the potential adverse effects of vaping products containing nicotine and various flavorings.** In light of the national concerns about whether E-cigarettes are a public health problem or a benefit to those who are trying to quit smoking (or both), this presents a classic opportunity for conducting a health risk assessment (Winter of 2019 - Spring of 2020).
3. **Assessment of hazards posed by replacing asbestos carburetor gaskets.** Retained by a firm to evaluate the possible hazards to workers/consumers replacing asbestos gaskets on carburetors on automobiles in both the workplace and for personal use (Spring 2020).
4. **Assessment of hazards posed by carbon dioxide poisoning from keyless automobiles.** Retained by a firm to evaluate the potential liability due to two citizens being poisoned by exposure to carbon monoxide from a keyless car (Spring 2020).
5. **Assessment of ophthalmic hazards posed by 2-Ethylhexanol (2-EH) solvent splashing on a worker.** Retained by a firm to evaluate the potential liability due to one employee having adverse health effects after 2-EH splashed in his eye (Spring 2020).

### **Volunteer Work**

- 2014 - 2019 Gottlieb Animal Health and Conservation Center, Los Angeles Zoo & Botanical Gardens, CA
- 2009 California Wildlife Center, CA
- 2007 Quistococha Zoo, Peru

### **Additional Experience**

- Within toxicology, trained with cell cultures, inoculation, cytotoxicity and chemotaxis assays, spectrophotometry, flow cytometry including the use of statistical analysis software FlowJo and Excel, and well versed in the use of and data analysis of ELISA, LC-TOF-MS and LC-MS/MS
- Within the veterinary field, trained in running anesthesia, assisting with surgery, working with a vast array of lab equipment to analyze blood and urine, and microscopy involving blood, urine, stool, bacteria, fungi, and parasites