

Grayson Abele, B.S.
Associate Toxicologist

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Academic and Professional Profile

Grayson Abele is an Associate Toxicologist and consultant with Paustenbach and Associates, focused on toxicology, ecotoxicology, epidemiology, occupational health, industrial hygiene, and state-of-the-art. His current focus is on asbestos, COVID-19, talc, and e-cigarettes and he has previously additionally worked with cannabis, environmental toxicology, PCBs, and cleaning products. Furthermore, he has a specific background in computational modelling both of pharmacokinetic data as well as structural-analysis relationships of various compounds to supplement known data. He has a B.S. in Biophysics from the University of Southern California.

Education and Degrees Earned

- Bachelor's Degree in Biophysics, The University of Southern California, 2018

Membership and Service to Professional Societies

- The International Society of Regulatory Toxicology & Pharmacology
- Society of Toxicology (Associate member)
- Cheminformatics and QSAR Society

Experience Summary (Professional Career)

Paustenbach and Associates
Associate Toxicologist
Jackson Hole, Wyoming
November 2020 – Present

- Consultant in toxicology, consumer products, industrial hygiene, and safety.
- Focused on asbestos, COVID-19, e-cigarettes, and environmental toxicology analysis and risk assessment

Cardno ChemRisk
Associate Health Scientist
Aliso Viejo, California

June 2018 – October 2020

- Consultant in toxicology, consumer products, risk assessment occupational health, and industrial hygiene.
- Focused on asbestos, talc, e-cigarettes, COVID-19, and cannabis toxicology.

Key Projects (Partial List)

1. **Quantitative Structure-Activity Relationship analysis of e-cigarette aerosol constituents.** Performed computational analysis of the toxicological hazards posed by hundreds of e-cigarette aerosol constituents and volatilization byproducts through use of a suite of QSAR softwares, then combined the data into a comprehensive analysis.
2. **Analysis of talcum powder documentation and state-of-the-art analysis.** Reviewed historic talc documentation and published literature to determine historic levels of tremolite asbestos in talc, or the lack thereof, as well as testing procedures used over time.
3. **Creation of toxicological profiles for e-cigarette Harmful and Potentially Harmful Constituents (HPHCs).** Synthesized data from published literature, public databases, and computational analyses on FDA-determined HPHCs for e-cigarettes into toxicological profiles that summarized the expected effects of individual compounds on all endpoints relevant to human health.
4. **Creation of Physiologically Based Pharmacokinetic Model for Nicotine.** Assisted in the creation of a PBPK model for nicotine following the inhalation of nicotine from e-cigarettes of various nicotine concentrations in the R coding language.
5. **Comparison of the regulations of cannabis contaminants across different states.** Researched and performed a comparison of the contaminants regulated for recreational or medicinal cannabis use across various states.
6. **Creation of cannabidiol toxicological profile.** Created a toxicological profile for CBD use both orally and via inhalation in response to evolving uses of CBD with the continuing legalization of cannabis as well as the EVALI outbreak of 2019-2020.
7. **Creation of report of COVID-19 impact on industrial settings.** Assisted with the creation of a report on COVID-19 safety principles, based on known data and published recommendations by the CDC, to help ensure a safe continuation of work.
8. **Analysis of currently-known health effects of polychlorinated biphenyls.** Researched and summarized the currently known health effects of PCBs with a focus on the concentrations of chemical needed to reasonably increase risk of adverse health effects.