Exponent®
Engineering & Scientific Consulting

Hrista Karapeneva, M.Sc.

Managing Scientist | Chemical Regulation and Food Safety
Harrogate
+441423878955 | hkarapeneva@exponent.com

Professional Profile

Miss Hrista Karapeneva is a Managing Regulatory Toxicologist with over 9 years of consulting experience, providing expert support for regulatory registrations across Europe and international markets. She provides support in plant protection products, biocides, industrial chemicals, and consumer products.

At Exponent, within the Chemical Regulation & Food Safety practice, Ms. Karapeneva is involved in a wide variety of complex and multidisciplinary projects that require in-depth technical evaluations, preparation of regulatory documentation, and hazard classification. She delivers strategic scientific and regulatory advice, with a particular focus on human health hazards. Ms. Karapeneva also represents clients in key regulatory and scientific meetings, ensuring their positions are clearly communicated and effectively advocated. Additionally, she serves as a study monitor for various projects, with specialized focus on Endocrine Disruption (ED) and Developmental and Reproductive Toxicity (DART) testing.

Over the last 9 years, Ms. Karapeneva has developed specialized knowledge in ED, conducting evaluations according to ECHA and EFSA guidelines, and providing Mode of Action (MoA) support to assess the human relevance of endocrine-related effects. Her deep understanding of CLP regulation in Europe, combined with her experience in ED evaluations, positions her as a trusted advisor, guiding clients through recent changes to the CLP Regulation regarding ED hazard classification.

Beyond her consulting work, Ms. Karapeneva is also an active member of the toxicology community, staying abreast of the latest developments across regulatory toxicology, regularly attending the Federation of European Toxicologists & European Societies of Toxicology and a frequent contributor to the European Teratology Society (ETS) as an invited speaker. These experiences highlight her expertise and contributions to advancing regulatory toxicology in Europe, providing the latest insights on key regulatory areas particularly within the ED and DART fields.

Ms. Karapeneva is dedicated to helping clients navigate the complexities of regulatory frameworks, supporting the safe and responsible use of chemicals across industries.

Academic Credentials & Professional Honors

M.Sc., Toxicology, University of Birmingham, UK, 2019

B.Sc., Human Embryology and Developmental Biology, University of Aberdeen, 2015

Prior Experience

Toxicologist, Vitis Regulatory (previously Peter Fisk Associates ltd.), 2016-2021

Professional Affiliations

European Register of Toxicologists

UK Register of Toxicologists

European Teratology Society

Languages

Bulgarian

Publications

Presentations

Hrista Karapeneva. Impact of Recent Update to the Steroidogenesis assay (OECD Test Guideline 456): Potential Reduction in Triggered Two-Generation or Extended One-Generation Reproduction Toxicity Studies. Oral Presentation. 51st Annual Meeting of the European Teratology Society, September 2023.

Hrista Karapeneva. DART dose selection issues with ECHA – an update. Oral Presentation. 52nd Annual Meeting of the European Teratology Society, September 2024.

Toltin A.C., Carlton K., Karapeneva H., Kent, L., Vaughan M., Richmond E. Non-EATS Modalities: Glucocorticoid (GC) Pathway and In Vivo Endpoints. Poster. 64th Annual meeting of the Society of Toxicology. March 2025.