



Lawrence Segal

Toxicologist

Education

PhD – Toxicology, University of Saskatchewan.

M.Sc – Toxicology, Carleton University

B.Sc – Toxicology, Carleton University

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About

Senior regulatory toxicologist with over 40 years' experience spanning pharmaceuticals, vaccines, chemicals, and regulatory agencies. Expert in nonclinical safety, risk assessment, and global regulatory strategy, with a strong track record of supporting successful submissions and complex product development. Recognised for leadership, scientific expertise, and cross-sector collaboration.

Skills & Impact

Vaccine Development: Significant experience in the nonclinical safety assessment of vaccines, adjuvants, and biologics, including leadership roles within global vaccine development programmes.

Occupational Health & Exposure Limit Setting: Long-standing contributor to occupational limit development through active membership in international committees. Experienced in reviewing and establishing exposure limits, supporting worker safety and regulatory compliance across industries

Risk Assessment: Expert in evaluating complex toxicological data to inform product safety and regulatory compliance, improving service standards and strategic decision-making throughout the product lifecycle.

Programme Leadership: Extensive expertise in the design, oversight, and interpretation of GLP toxicology studies, including repeat-dose, reproductive, developmental, and genotoxicity studies. Skilled in guiding study strategy, liaising with CROs, and ensuring that data packages meet regulatory expectations.

Global Regulatory Strategy: An expert in preparing and reviewing nonclinical sections of regulatory submissions, including INDs and CTAs for global markets. Agencies submitted to include but go beyond: FDA, EMA, MHRA, and Health Canada.

Chemical Hazard Classification: Deep knowledge of EU REACH requirements and global chemical safety regulations. Proven track record in hazard identification, classification, and communication, as well as occupational toxicology and product stewardship for industrial and consumer chemicals



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Areas of Expertise



Strategic
Planning &
Due Diligence



Assay &
Quality
Control



CMC &
Manufacturing



Preclinical,
Non-Clinical
& Toxicology



CDMO
Management



Formulation
Development
& Stability



QA, Auditing
& Regulatory
Affairs



Clinical
Development
& Monitoring

Languages

English (Fluent)

French (Fluent)

Experience

Senior Toxicologist, Regulatory & Risk Assessment Freelance

May 2018-Present

Freelance role working internationally. Providing overseas study placement, monitoring, and data interpretation, while liaising with CROs and regulatory agencies. Examples of work include working as a toxicology advisor for CEPI, and designing, placing and monitoring a GLP repeated dose study with adjuvanted Zika vaccine.

Senior Toxicologist Penman Consulting

Sep 2015-Present

Principal scientific contract for contracted toxicity studies, liaising with Study Directors and Scientific staff at testing laboratories, reviewing study protocols, monitor study progress, and assessing the regulatory significance of results.

Director of Nonclinical Toxicology & Pharmacology GlaxoSmithKlein

Apr 2006 – Aug 2015

Responsible for the preparation and review of the non-clinical toxicology sections of regulatory submissions, interacting with worldwide regulatory agencies as well as preparing and monitoring GLP studies.

Global Toxicology & Regulatory Specialist GE Advanced Materials

Sep 2004 – Mar 2006

Served as the global lead for EU REACH-related activities, providing strategic toxicology and product safety guidance across multiple regions. Advised on hazard classification, risk assessment, and regulatory compliance, while liaising with internal and external stakeholders. Oversaw toxicological data evaluation and study management.

Team Leader Hazard Assessment

Huntsman Corp

Sep 2004 – Mar 2006

Global Toxicology & Regulatory Specialist Senior Toxicologist and Head, WHMIS Evaluation

Health Canada, Product Safety Bureau

May 1988 – Mar 2000

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