

# Lisa Hoffman, Ph.D., ERT

SENIOR SCIENTIST II

## CONTACT INFORMATION

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ToxStrategies LLC  
Long Valley, NJ  
908-882-0878  
[lhoffman@toxstrategies.com](mailto:lhoffman@toxstrategies.com)

## PROFESSIONAL PROFILE

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Lisa Hoffman is a Senior Scientist II in ToxStrategies' Food and Consumer Products Practice. She holds a doctorate in Pharmaceutical Sciences with a specialty in Toxicology and is certified as a registered toxicologist in Europe. Dr. Hoffman has extensive experience in leading teams of toxicologists to ensure cosmetics and skincare products are safe for the consumer and the environment and that they comply with all global regulatory requirements. She has conducted hazard evaluations and human health risk assessments for global products at various stages of product development. Additionally, she has designed, monitored and evaluated toxicity studies, interpreting the results and incorporating those results into product risk assessments. Dr. Hoffman has provided scientific guidance on emerging safety and regulatory issues for ingredients in addition to preparing and evaluating safety dossiers, and she served as lead regulatory toxicologist for Proposition 65 compliance for a major cosmetics company. She also has expertise in evaluating the safety of nutritional and dietary supplement raw ingredients and products, and in ensuring that finished product documentation meets Good Manufacturing Practice (GMP) criteria.

Dr. Hoffman is skilled in using a variety of software packages, including *in silico*/QSAR Toxicology Programs, OECD Toolbox, Crème Model System, Benchmark Dose Software (BMDS), DEREK, Toxtree, ECOSAR, and EPI Suite.

## EDUCATION AND DEGREES EARNED

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- 2015 Doctor of Philosophy (Ph.D.), Pharmaceutical Sciences; specialty in Toxicology  
St. John's University, College of Pharmacy and Health Sciences
- 2006 Bachelor of Arts (B.A.), Biology; *summa cum laude*  
Long Island University, C.W. Post Campus; Honors Program

## CERTIFICATIONS

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2022 Registered toxicologist, Europe

## PROFESSIONAL HONORS/AWARDS

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2022 Corporate R&D Distinctive Achievement Award  
 2021 Corporate R&D Luminary Award  
 2017 Corporate R&D Distinctive Achievement Award  
 2011-2013 American Foundation for Pharmaceutical Education, Pre-Doctoral Fellowship  
 2011 Rho Chi; Pharmaceutical Sciences Honor Society  
 2009 Society of Toxicology Graduate Student Travel Award  
 2008-2015 St. John's University Doctoral Fellowship

## SOFTWARE AND DATABASES

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OECD Toolbox, Crème Model System, Benchmark Dose Software (BMDS), DEREK, Toxtree, ECOSAR, and EPISuite

## PROFESSIONAL ASSOCIATIONS

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2009–present Society of Toxicology (SOT)  
 2009–present Mid-Atlantic Regional Chapter of SOT (MASOT)  
 2010–present MASOT Education and Outreach Committee

## SELECTED PROFESSIONAL EXPERIENCE

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### *Toxicology and Clinical Safety Manager*

As both a senior manager and manager for a cosmetics company, led a team of safety assessors in all aspects of human and environmental product safety with responsibility for overseeing the safety and risk assessment of raw ingredients as well as finished products in all areas of cosmetics, fragrances, and toiletries. Worked with teams to ensure compliance with global regulatory standards and internal corporate requirements. Provided scientific guidance to senior leadership on emerging safety and regulatory issues for new and existing ingredients. Created safety dossiers for products and collaborated on the creation of a hazard-based eco-innovation tool to rank the impact of ingredients/formulas. Assisted in the development of the criteria and strategy to meet regulatory requirements for biodegradability. Lead regulatory toxicologist for Proposition 65 compliance. Established corporate Fragrance & Flavor Safety Policy. Provided quality assurance to ensure raw ingredient and finished product documentation met GMP criteria.

### Senior Scientist

In addition to monitoring the safety of raw ingredients and formulations for skincare and makeup, performed *in silico*/QSAR analyses to determine the toxicological profile and dermal compatibility of individual ingredients.

Designed and monitored *in vitro* toxicity studies, evaluated the results, and integrated those results into new and existing toxicological profiles. Provided guidance on safety-related warnings to the corporate marketing team.

### BOOK CHAPTERS

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Hoffman L, Mohapatra A. 2020. United Kingdom. Chapter 41 in: Wexler P (ed), Information Resources in Toxicology. Academic Press, pp 567-593.

Labib R, Amin R and Hoffman L. (2023). Regulatory and Safety Requirement for use of Recycled Polyethylene in Food and Cosmetic Packaging. Polyethylene - New Developments and Applications. DOI: 10.5772/intechopen.1003192 <https://www.intechopen.com/online-first/1146205>

### PEER-REVIEWED PUBLICATIONS

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Hilberer A, Hoffman L, Supilt T, Labib R, Costin-Gertrude E. Submitted for publication. Optimizations of the Reconstructed Human EpiDermis (RhE)-based phototoxicity testing to evaluate long lasting cosmetic products.

Labib R, Amin R, Barlett C, Hoffman L. 2024. Utilizing integrated testing strategy (ITSv1) defined approach and read across to predict skin sensitization of cannabidiol. Comp Tox 29:1100297. <https://doi.org/10.1016/j.comtox.2023.100297>

Labib R and Hoffman L. 2023. Evaluating the environmental impact of personal care products: The Eco-Innovation Ranking Method. Earth & Environmental Sciences. <https://doi.org/10.33548/SCIENTIA973>

Saxe J, Hoffman L, Labib R. 2022. Method to incorporate green chemistry principles in early-stage product design for sustainability: Case studies with personal care products. Green Chemistry 24:4969–4980; doi: 10.1039/d2gc00842d.

Hoffman L, Trombetta L, Hardej D. 2016. Ethylene bisdithiocarbamate pesticides Maneb and Mancozeb cause metal overload in human colon cells. Environ Toxicol Pharmacol 41:78–88.

Hoffman L, Hardej D. 2012. Ethylene bisdithiocarbamate pesticides cause cytotoxicity in transformed and normal colon cells. Environ Toxicol Pharmacol 34:556–573.

### RECENT ABSTRACTS AND PRESENTATIONS

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Hilberer A, Hoffman L, Supilt T. Modifications in the RhE phototoxicity assay to evaluate long-lasting cosmetic products. Poster presented at Society of Toxicology Annual Meeting, Nashville, TN, March 2023.

Saxe J, Hoffman L, Labib R. Automated assessment process guides sustainable down-the-drain product design. Poster presented at Society of Environmental Toxicology and Chemistry (SETAC), Oregon, November 2021.

Hoffman L. Assessment of the eye irritation potential of cosmetics and personal care products. Oral presentation at CTPA Safety Assessment Campaign, July 2021.

Hoffman L. Evaluating the biodegradability of cosmetics and personal care products. Oral presentation at OpenTox Virtual Conference 2021, September 2021.

Hoffman L, Hardej D. The toxicity of mancozeb in human colon cells may be related to an alteration of metal homeostasis. Poster presented at Society of Toxicology Annual Meeting, San Diego, CA, March 2015.

Hoffman L, Hardej D. Escape from Toxic Island (Life Size!): A toxicology awareness program using demonstrations and hands on activities. Poster presented at Society of Toxicology Annual Meeting, Phoenix, Arizona, March 2014.

Hoffman L, Hardej D. The toxicity of maneb in human colon cells may be related to the transchelation of the metal moiety and the organic backbone. Poster presented at Society of Toxicology Annual Meeting, Phoenix, Arizona, March 2014.

Hoffman L, Hardej D. Escape from Toxic Island: Learning toxicology concepts through informational posters and a board game. Poster presented at Society of Toxicology Annual Meeting San Antonio, TX, March 2013.

Hoffman L, Hardej D. Both the metal moiety and the organic backbone of ethylene bisdithiocarbamate fungicides maneb and mancozeb contribute to toxicity in human colon cells. Poster presented at Society of Toxicology Annual Meeting, San Antonio, TX, March 2013.

Hoffman L, Hardej D. Ethylene bisdithiocarbamate pesticides maneb and mancozeb cause toxicity in normal and transformed colon cells via an apoptotic mechanism. Poster presented at Society of Toxicology Annual Meeting, San Francisco, CA, March 2012.

Hoffman L, Hardej D. Ethylene bisdithiocarbamate pesticides maneb and mancozeb cause toxicity in normal and transformed colon cells. Poster presented at Society of Toxicology Annual Meeting, Washington D.C. March 2011.

Hoffman L, Hardej D. Investigation of ethylene bisdithiocarbamate pesticide toxicity in HT-29 and Caco-2 human colon cells. Poster presented at Society of Toxicology Annual Meeting, Salt Lake City, UT, March 2010.