

## RESEARCH REMOTE SEMINAR SERIES

The Center for Dermal Research welcomes

Dr. Junhong Mao, Manager of Technology  
Early Research Personal Care; Colgate-Palmolive Company  
and

Isabel Diaz, Manager, Dermal Clinical Research  
Colgate-Palmolive, Co. - Personal Care, Skin Health and Home Care

*“Topical Delivery of Vitamins C & E and Their Skin Benefits”*

**October 18, 2021; 5:30pm EST**



Dr. Junhong Mao has 17 years of experience in the consumer product industry. Her current research focuses on identifying and developing biotics and delivery technologies for personal care and premium skin care products. Leading a team of scientists from diverse chemistry and biology fields, she has developed and validated multiple pipeline technologies and provided critical support for many new product launches. She received several technology excellence awards internally and co-authored multiple peer-reviewed papers, conference presentations, patents and patent applications. Dr. Mao received her PhD in Chemistry from the University of Illinois at Urbana-Champaign. During her graduate study, she received the American Heart Association’s fellowships to conduct research on the structure and activity relationships of bisphosphonates as well as respiratory proteins.

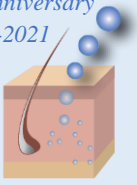


Isabel Diaz has 20 plus years of experience in clinical research. Her experience covers both sides of the consumer product industry by having worked at a leading CRO focusing on in-vivo testing and by currently working at Colgate-Palmolive, marketing cosmetics/premium skin care and OTCs. In her current role, she along with her team of clinicians and a US Board-Certified Dermatologist supports personal and home care clinical testing by partnering with leading CROs globally for claim substantiation. She also leads an Advisory Board made up of leading Dermatologists and KOLs in skin health. Isabel holds a BA degree from Rutgers University, New Brunswick, New Jersey, USA. Prior to joining Colgate, Isabel held positions in clinical testing at Hill Top Research and the University of Medicine and Dentistry of New Jersey (UMDNJ) – Cancer Institute, located in the USA.

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**Abstract:** Skin is under constant challenge from a variety of external aggressors, such as photoaging, which is due to prolonged sun exposure. The process produces harmful free radicals, such as reactive oxygen species and leads to a host of deleterious effects, including collagen breakdown in the extracellular matrix, wrinkle formation, pigmentation and carcinogenesis. Antioxidants such as vitamin C and vitamin E can effectively mitigate the oxidative stresses and are therefore beneficial to skin. The combination of the two can potentially provide a synergetic protective effect. However, challenges remain in developing topical vitamins C and E formulations due to their very different solubility properties. This research examined a new skincare formulation containing hexylresorcinol and silymarin in a proprietary anhydrous base incorporating 20% vitamin C and 5% vitamin E. The new formulation demonstrated improved vitamin C stability as well as enhanced delivery of both vitamins C and E to skin as compared to a marketed benchmark. It also showed the ability to protect skin from UV-induced photodamage. In addition, the formula was tested in a clinical study and demonstrated improvement in skin brightening, skin tone evenness, fine lines and global facial appearance.

### CONFERENCE LINK:

Meeting link:

<https://rutgers.webex.com/rutgers/j.php?MTID=mf19feef4354a6a00d810a98a9d9c16e6>

Or send an email to [cdr\\_frontdesk@dls.rutgers.edu](mailto:cdr_frontdesk@dls.rutgers.edu) to request a direct invite

