

New JID Publication Demonstrates Bio-Me's PMP™ Enabling Advanced Quantitative Skin Microbiome Research

Bio-Me, a leader in Microbiome Profiling, today announced having co-authored a new POC study in the Journal of Investigative Dermatology led by dsm-firmenich

OSLO, NORWAY, August 18, 2026 /EINPresswire.com/ -- Bio-Me, a leader in [Precision Microbiome Profiling](#), today announced having co-authored a new proof-of-concept study in the [Journal of Investigative Dermatology](#) led by dsm-firmenich: "3-Dimensional Facial Skin Microbiome Mapping: An Integrated Technology for Continuous Visualization of Absolute Microbial Densities."

The study demonstrates how absolute microbial quantification can be integrated with 3D spatial interpolation to generate continuous, high-resolution visualizations of bacterial and fungal distributions across the human face. According to the authors, this approach can help identify site-specific dysbioses, guide targeted interventions and track treatment effects, thereby linking microbial biogeography more directly to applied dermatology and skin health.

At the analytical core of the study, Bio-Me's quantitative PCR-based Precision Microbiome Profiling platform, PMP™, was used to determine absolute abundances of 35 bacterial and fungal species/genera from facial skin samples. The paper further reports that PMP™-based quantification was validated by droplet digital PCR.

"This publication is a strong example of the type of high-quality, application-oriented skin microbiome research that our clients can achieve with PMP™," said Dr. Ana Finzel, PMP™ product owner at Bio-Me and co-author. "For ingredient manufacturers, skincare developers and dermo-cosmetic brands, absolute quantification provides a more robust basis for understanding how specific microbial taxa vary across skin sites, respond to interventions and support product-relevant insights."

Skin microbiome analysis is technically demanding because skin samples often contain low microbial biomass and substantial human background DNA. Bio-Me's PMP™ platform is designed to address these challenges through targeted, sensitive and reproducible quantification of a wide range of defined microbial taxa. Its combination of absolute quantification, quantitative accuracy, precision, fast turnaround, and scalability makes PMP™ well suited for commercial R&D in skin, scalp and intimate care.

The DSM-Firmenich-led study revealed marked topographical heterogeneity in core facial microbial species, including distinct distribution patterns for *Cutibacterium acnes* and *Malassezia restricta*. The authors also showed that strategic selection of sampling sites may support comprehensive facial microbiome characterization while reducing participant burden and study costs.

For Bio-Me's customers, the broader relevance of the publication is clear: advanced microbiome insights require robust quantitative data that can support more interpretable research, stronger product development decisions and more credible microbiome-related claim substantiation. "We are proud to see PMP™ supporting client-led innovation at this level," added Bio-Me CEO Dr. Arne Materna. "This study highlights how quantitative microbiome profiling can help translate complex skin microbiome signals into actionable R&D insights for the next generation of skincare and dermo-cosmetic innovation."

For more information about Bio-Me's PMP™ platform and microbiome analysis services, visit www.bio-me.com.

About Bio-Me:

Bio-Me is an Oslo-based biotechnology company specializing in high-resolution microbiome analysis. Its proprietary Precision Microbiome Profiling platform, PMP™, provides rapid, accurate and absolute quantification of a wide range of microbial taxa across gut, skin and vaginal microbiome applications. Bio-Me supports clients in skincare, intimate care, nutrition, healthcare and life sciences by translating complex microbiome biology into actionable quantitative insights.

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