



Center for Dermal Research
Innovations in Dermatological Sciences Conference 2025
Spotlight Session on Sensill

Sensill: Reshaping Dermatology Research and Skin Health

Speaker: Dr. Ardeshir Bayat, Founder

At Sensill, we are pioneering a groundbreaking platform for volatile organic compound (VOC) detection and quantification. Imagine a world where subtle biological signatures, invisible to the naked eye, can be unveiled in minutes. That is the power of our real-time, quantitative metabolic readout – a versatile tool designed to precisely identify and quantify not just skin infections, but also various skin diseases, and even inform certain drug evaluations.

For the dermatology community, this represents an extraordinary leap forward:

- **Revolutionizing Skin Infection Management:** Our validated platform empowers clinicians with rapid, precise, and non-invasive diagnosis of skin and wound infections. We aim to obliterate the agonizing delays of traditional methods, combating antibiotic resistance and significantly improving patient outcomes.
- **Unlocking New Biomarkers for Skin Diseases:** The capacity for universal metabolite detection opens unprecedented avenues for discovering novel VOC profiles. This means the potential for non-invasive, real-time diagnostic biomarkers for a myriad of skin conditions, offering new insights into disease progression and treatment response.

- Advancing Drug Compliance and Skin Physiology Insights: Our platform's ability to monitor VOCs through the skin can inform crucial research into identifying drug intake and evaluating drug levels for compliance, via the detection of extrinsic drug metabolites. Furthermore, it provides a dynamic lens through which to observe and understand the intricate metabolic shifts underlying skin physiology, inflammation, and healing processes.
- Transforming the Cosmetics and Skincare Industry: Sensill's VOC analysis aims to revolutionize personalized skincare. We can diagnose skin health, monitor biological skin aging, and evaluate the response to targeted beauty regimens, ensuring highly individualized product recommendations and insights into product efficacy.

In essence, Sensill is delivering a powerful, precise, real-time and non-invasive instrument that promises to transform both clinical dermatology and foundational dermal research. We are building the tools to unlock a deeper understanding of skin health, paving the way for a new era of personalized and predictive care.

www.sensill.ai