

## MatTek's EpiDerm Skin Irritation Test Workshop



### Details

The workshop will provide a brief overview of *in vitro* 3D reconstructed human skin tissue models, their use in toxicology and pharmacology, and the practical demonstration of EpiDerm Skin Irritation Test (SIT) according to OECD test guideline 439 (TG 439).

EpiDerm human tissue model (Figure 1) is used across various applications including safety and risk assessment, and biological efficacy. Simple protocols and the evaluation of early cellular endpoints allow researchers to acquire data in a few days. EpiDerm, a Reconstructed Human Epidermis (RHE), is a ready-to-use, highly differentiated 3D Tissue model consisting of normal, human-derived Epidermal keratinocytes (NHEK) cultured on specially prepared tissue culture inserts cultured at the air-liquid interface (ALI) and allows for the evaluation of topically applied compounds, chemicals, cosmetic/personal care product ingredients, and final formulations.

With multiple ECVAM validations and OECD-accepted test guidelines, EpiDerm is proven *in vitro* model system for chemical, pharmaceutical, and skin care product testing. EpiDerm SIT is validated and accepted method under OECD TG 439, EpiDerm Skin Corrosion test as OECD TG 431, EpiDerm phototoxicity test as OECD TG 498, and for biological evaluation of medical devices ISO 10993-23.

Participants will have a hands-on opportunity to practice the EpiDerm SIT with actual tissue models. The workshop is suitable for everybody who would like to practice the method, consult the specific problem, and get information as well as those who are just considering the use of *in vitro* models in their research.

The number of participants for practical work is limited to 30.

