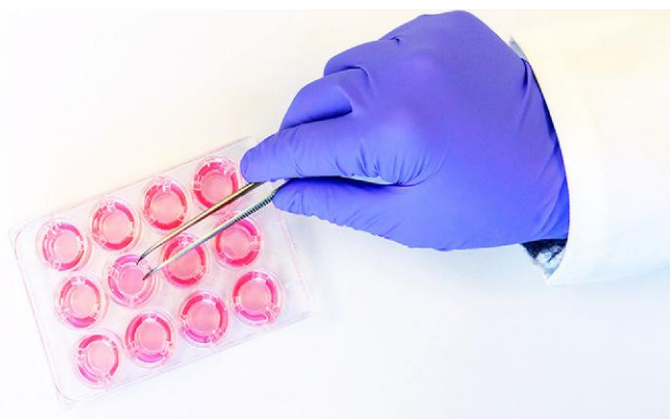


**MatTek workshop at
12th INTERNATIONAL CONGRESS OF THE TURKISH
SOCIETY OF TOXICOLOGY,
06-09 NOVEMBER 2025, HILTON MALL ISTANBUL**



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

EpiDerm 3D human tissue model is used across a diverse range of 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 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. EpiDerm is a proven *in vitro* model system for chemical, pharmaceutical and skin care product testing.

EpiDerm is a validated testing method for OECD TG 439 (skin irritation), OECD TG 431 (skin corrosion), OECD TG 498 (phototoxicity), and ISO 10993-23 (biological evaluation of medical devices).

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, 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 40.

Stratum Corneum

Stratum Granulosum

Stratum Spinosum

Stratum basale

