

# MATTEK

A BICO COMPANY



MatTek Life Sciences was founded in 1985, and acquired by BICO in 2021. We began producing human tissue models as reliable replacements for animal testing.

MatTek's advanced tissue models of the skin, eye, oral, respiratory and intestinal systems empower companies in the cosmetics, chemical, and pharmaceutical industries to achieve our goals of non-animal testing while lowering preclinical costs and providing human-relevant results.



## 2022 Annual Stats & Facts

1,000+

TECHNICAL REFERENCES

500+

PATENT CITATIONS

93

GLOBAL EMPLOYEES

20+

YEARS OF PUBLICALLY AVAILABLE  
VALIDATION DATA

95,000+

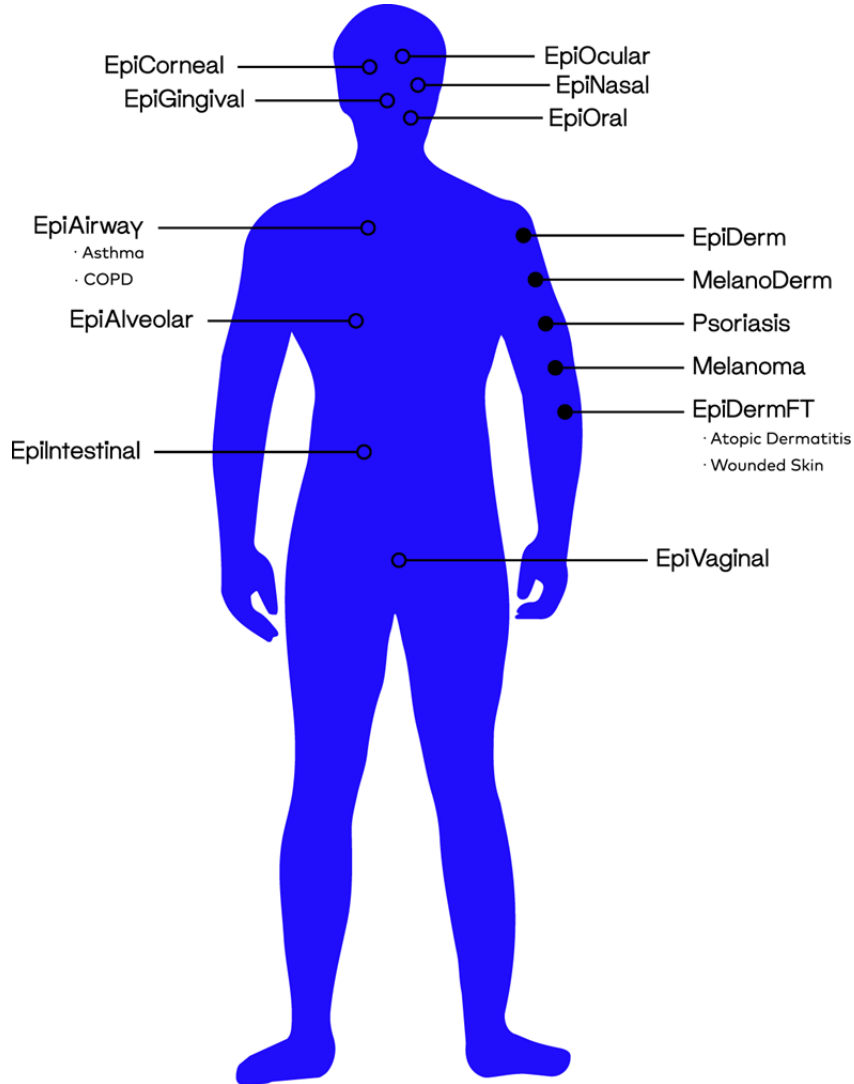
LABORATORY ANIMALS SAVED

OECD TG 439, 431, 498,  
ISO 10993-23  
FDA MODERNIZATION ACT



## WORLD LEADER

PIONEERING 3D HUMAN TISSUE MODELS



Tissue Models



Cultureware



Contract  
Testing



Cells & Media



3DIY



# A Shift in understanding how chemicals and pharmaceuticals impact humans is underway with testing guidelines

Animal Testing	<i>In vitro</i> alternative methods	
<p><b>Draize Test</b> Predict irritancy or corrosivity on the rabbits' eye</p>	<p><b>OECD TG 492</b> Eye Irritation Test</p>	<p>Reconstructed human Cornea-like Epithelium (RhCE) test method for identifying chemicals not requiring classification and labelling for eye irritation or serious eye damage</p>
<p><b>Draize Skin Irritation Test</b> Predict chemicals causing skin reactions</p>	<p><b>OECD TG 439</b> Skin Irritation Test</p>	<p>In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method</p>
<p><b>Draize Skin Corrosion Test</b> Tests highly reactive. Aggressive substances for their skin corrosion</p>	<p><b>OECD TG 431</b> Skin Corrosion Test</p>	<p>In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method</p>
<p><b>In Vivo tests</b> on mice, rats, rabbits, and guinea pigs</p>	<p><b>OECD TG 498</b> Phototoxicity Test</p>	<p>In Vitro Phototoxicity: Reconstructed Human Epidermis (RHE) Test Method</p>
<p><b>Skin Irritation Test</b> For topical and systemic application Intracutaneous rabbit assay</p>	<p><b>ISO 10993-23</b> Biological Evaluation Of Medical Devices - Part 23: Tests For Irritation</p>	<p>In Vitro Skin Irritation: Biocompatibility assessment of medical devices by direct contact or with polar and non-polar solvent extracts</p>