

**Derma** Research Services

# Providing customized solutions

to support research and  
science-driven product  
development

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# About us

Genemarkers is a precision health company based in Kalamazoo, MI. The Company is a majority woman-owned business that has been offering quality testing services for over 15 years.

We support preclinical and clinical research services, with expertise in dermal cell biology and genomics-based technologies. Our attention to detail, flexible approach and commitment to quality are embedded in our core principles and have earned us a positive reputation in the research service industry. We value each customer relationship and strive to ensure value is derived from each project.



# Core Services

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## EARLY SAFETY SCREENING

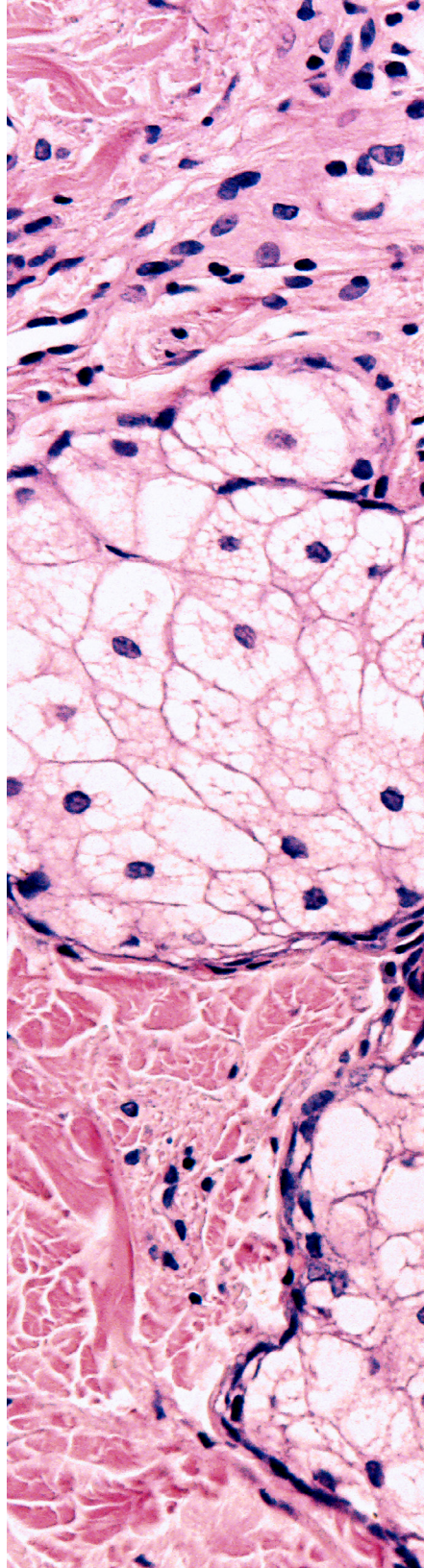
- Skin Irritation
- Skin Sensitization
- Ocular Irritation
- Phototoxicity

## GENOMIC BIOMARKER ANALYSIS

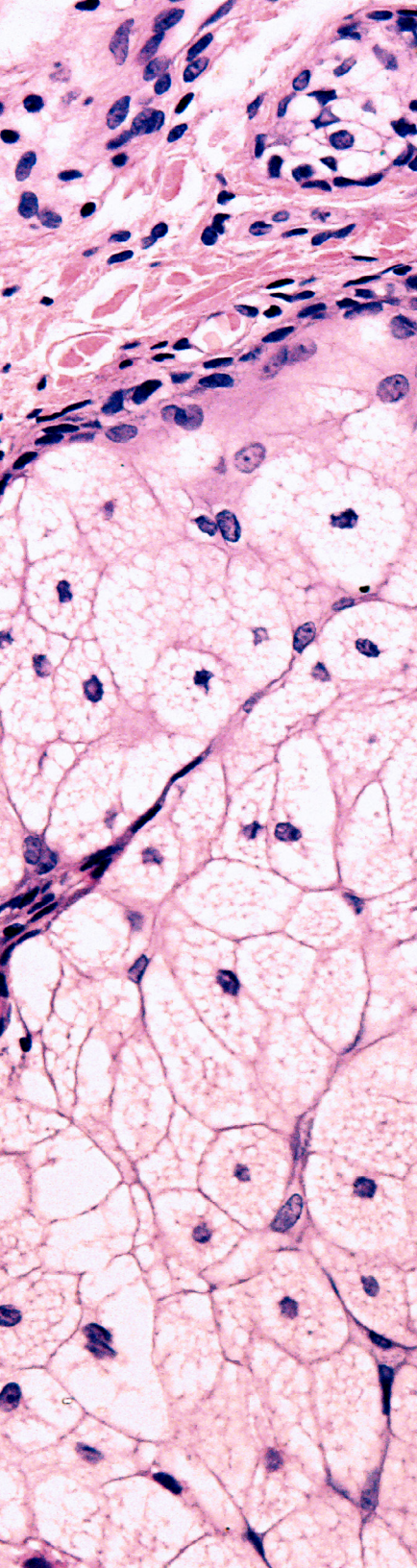
- Gene Expression
- Genotyping
- Epigenetic Analysis
- Next Gen Sequencing

## PROTEIN EXPRESSION ANALYSIS

- Enzyme-Linked Immunoassay (ELISA)
- Immunohistochemistry (IHC)







# Cell & Tissue Models

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## CELL CULTURE

2D Cell Culture (fibroblasts, keratinocytes, melanocytes, adipocytes, dermal papilla cells)

2D Co-cultures

*in vitro* Skin Cultures

*ex vivo* Skin Explants

## TISSUE CHALLENGES

UV Irradiation

Blue Light (HEV)

Diesel Particulate Matter (DPM)

Wound Methods

Inflammatory Responses

# Applications

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TOPICAL PRODUCTS

NUTRITIONAL SUPPLEMENTS

CANNABINOIDS

HAIR CARE

DERMAL DEVICES & DELIVERY





## Discover

Biological Mechanisms of action

Specific Molecular Targets for Desired Results



## Identify

Biological Activities of Raw Materials

Effects of Combinations of Ingredients

Dose-Response Relationships



## Validate

Efficacy

Safety



## Improve

Formulation Development & Optimization

Marketability

Consumer Confidence & Brand Loyalty

State-of-the-art  
testing to expedite the  
development of safe  
and effective products

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