# SKIN FUNCTIONAL INVESTIGATIONS AFTER APPLICATION OF COSMETIC AND PHARMACEUTICAL PRODUCTS

**Skin functional laboratory** at the Department of Dermatology and Venereology, University Hospital, Plovdiv, Bulgaria is specialized in performing skin functional investigations in the field of dermatology and cosmetics. The laboratory is equipped with modern skin bioengineering devices manufactured by Courage & Khazaka, Cologne, Germany. Using non-invasive and objective methods we can determine the effects of cosmetic and pharmaceutical products tested on the following skin functions:

- **LASTICITY CUTOMETER MPA** with two probes **CUTOMETER**
- **★** VISCOELASTICITY probe REVISCOMETER
- **WATER CONTENT probe CORNEOMETER**
- **★** COLOR (PIGMENTATION) probe MEXAMETER
- **♣** SURFACE (SMOOTHNESS) probe FRICTIOMETER
- **SURFACE (RELIEF)** camera **VISIOSCAN** and software **SELS**
- **♣** SKIN GLOSS probe GLOSSYMETER
- # SEBUM (SKIN LIPIDS) probe SEBUMETER
- **SEBUM SECRETION** camera **VISIOSCAN**, tests **SebuFix** and software **SELS**
- **BACTERIAL COLONIZATION** probe **VISIOPOR**
- **DESQUAMATION** (SKIN DRYNESS) camera VISIOSCAN, tests CorneoFix and SELS
- # FACIAL SKIN ANALYSIS VISIOFACE, software CSI; COSCAM, software SKINSYS
- # HAIR ANALYSIS COSCAM, software HAIRSYS
- **★** DERMOSCOPY, TRICHOSCOPY, CAPILLAROSCOPY DINOLITE MICROSCOPE

**Study protocols** are consistent with the Good Medical Practice (GMP) and adapted to the specific aims and requirements of the customer. Effects of the products tested are determined after single application (up to 120 m after the application) and/or after long-term application (up 8-weeks application).

Time limit for short-term studies is 1 month, and for long-term studies is 4 months.

Study results are manipulated statistically, presented graphically, and discussed in Study protocol.

Applications Specialized skin functional investigations in the field of dermatology and cosmetics aimed to claim support of new cosmetic and pharmaceutical products like us: improvement of skin mechanical properties, increase of epidermal water content, decrease of skin desquamation (dryness), degreasing effect/durability of emulsion film, anti-dandruff effect, skin bleaching effect, anti-wrinkle effect (improvement of skin relief and smoothness), changes in skin microcirculation (capillaroscopy), dermoscopy, trichoscopy, onychoscopy.

## **Assignation**

All aspects of efficacy and clinical studies are discussed with the chief of Skin functional laboratory.

## Reliability

Based on 20-years professional experience and international recognition.





#### SKIN FUNCTIONAL LABORATORY

MEDICAL UNIVERSITY
UNIVERSITY HOSPITAL "SAINT GEORGE"
DEPARTMENT OF DERMATOLOGY AND VENEREOLOGY
15A V. APRILOV STR., 4002 - PLOVDIV, BULGARIA



# SKIN FUNCTIONAL LABORATORY

**CUTOMETER** 

REVISCOMETER

**FRICTIOMETER** 

**MEXAMETER** 

**CORNEOMETER** 



DIGITAL MICROSCOPE

**SEBUMETER** 

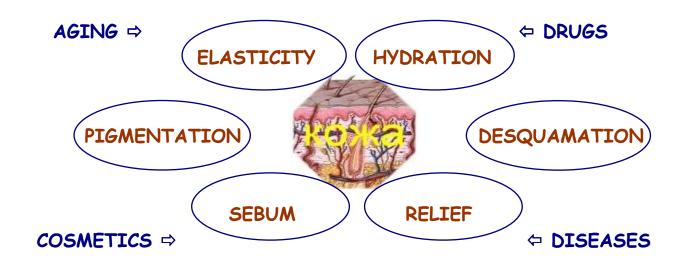
**GLOSSYMETER** 

VISIOSCAN

**VISIOPOR** 

**VISIOFACE** 

# PRACTICAL APPLICATIONS



# NON-INVASIVELY - PRECISELY - PROFESSIONALY

### Contacts:

Prof. Hristo Dobrev, MD, PhD

@mail: hristo\_dobrev@hotmail.com; http://bulderma.tripod.com