

MAJOR RESEARCH/TECHNOLOGY TOPICS OF INTEREST

1. In vitro validated alternatives to animal experiments and human volunteers for the development of topical dermatics and for studying the risk analysis.
2. Percutaneous absorption from different skin models; Excised Human and Pig Skin, Reconstructed Epidermis, Full-Thickness Skin Models and Epiairway Models.
3. Development or adopting, and validation of radioimmunoassay methods for the analysis of pharmaceutical compounds, steroidal hormones in biological fluids and skin tissues.
4. Development and validation of enzyme-immunoassay methods for the analysis of pharmaceutical compounds and cancer markers in biological fluids.
5. Development and validation of HPLC methods for the analysis of the pharmaceutically active compounds and their metabolites in biological fluids.
6. Development and validation of fluorimetric and spectrophotometric methods for the analysis of pharmaceutical compounds in pure forms and pharmaceutical dosage forms.
7. Quality control for the analysis of drugs in dosage forms or/and in biological fluids.