



REMOTE CDR RESEARCH SEMINAR SERIES

The Center for Dermal Research Welcomes

Witold Stanislaw Musial, MSc, PhD, DSc, Professor
The Silesian Piasts Memorial Wroclaw Medical University

“Selected practical model studies on drug release and penetration intended for
topical drug application to the skin”

May 23 at 5:30pm EST



Professor Witold Musial, MSc, PhD, DSc, is a pharmacist, specialist in dispensing pharmacy and clinical pharmacy, obtained his MS degree in pharmacy - based on the thesis "The effect of surfactants on the kinetics of the release of hydrocortisone from hydrogels". Professor Musial received his PhD degree in pharmaceutical technology and biopharmaceutics - based on the thesis "Application of anionic polymers as carriers for cationic factors presumed in prophylactic activity against Acne vulgaris" and received his DSc degree in pharmaceutical technology - based on the thesis "Synthesis and properties of thermosensitive polymeric microspheres as carriers for active pharmaceutical ingredients". He is a

Professor of Pharmaceutical Sciences, Head of the Department of Physical Chemistry and Biophysics at the Pharmaceutical Faculty of the Silesian Piasts Memorial Wroclaw Medical University, in Wroclaw, Poland. Professor Musial is also the Deputy Dean of the Faculty of Pharmacy in charge of pharmacy studies. Professor Musial is interested in physico-chemical and biophysical aspects of the technology of controlled and targeted drug delivery. Publications: 285, PhD supervisions: 5 realized and 3 ongoing, patents and inventions: 5, classified science discipline: pharmacology and pharmacy: 100%, ORCID: 000-0001-5695-5998. Key words: controlled drug delivery, targeted drug delivery, pharmaceutical technology, kinetics, pharmacokinetics, drug release, polymers, surfactants, membranes.

Abstract: The skin is an attractive organ for researchers involved in the controlled and targeted administration of medicinal substances. The barrier functions of the skin are the basis of its tissue organization and in most cases under physiological conditions we expect some substances to be released through the skin, while the absorption of medicinal substances is much more difficult. There is, however, a number of situations in which one can expect an intense interaction of medicinal substances with the skin and skin appendages. Examples of such appendages are hair follicles, sebaceous glands, and the nail plate. Phenomena at the interface drug - skin layers, and at the interface of the skin layer - blood vessels constitute an important research object, the modeling and reflection of which using physicochemical methods may bring beneficial effects in preformulation, technological and clinical research. Selected examples and concepts in this area will be briefly presented in the lecture.

Meeting Link:

<https://rutgers.zoom.us/j/96829451941?pwd=ZlpoSWcvalUrVGo2aTJRXVhVnJCdz09>

For a direct invite, please email cdr_frontdesk@dls.rutgers.edu



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