

**UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE
„CAROL DAVILA” BUCUREȘTI
ȘCOALA DOCTORALĂ
DOMENIUL MEDICINĂ**



**Microbiome, Chronic Infections and Inflammation:
From Pathogenetic Studies to the Development of Innovative Therapies.
Expanded Applications in Dermatology**

ABSTRACT OF THE HABILITATION THESIS

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ABSTRACT

The habilitation thesis with the title **”Microbiome, Chronic Infections and Inflammation: From Pathogenetic Studies to the Development of Innovative Therapies. Expanded Applications in Dermatology”** represents a summary of all the scientific, academic, and professional activities undertaken to date and aims to reproduce the main motivation of my career - that of successfully managing patients with complex dermatological conditions, based on an advanced understanding of hidden physiopathological mechanisms and state-of-the-art treatment options.

Chapter 1 includes the main activities and scientific achievements carried out since the beginning of my career, initially in the Department of Microbiology II- Cantacuzino Institute of the Faculty of Medicine, University of Medicine and Pharmacy "Carol Davila" and later on in the Department of Oncologic Dermatology- „Elias” Emergency University Hospital, of the same university. The first chapter is structured in four subchapters:

1.1. The main field of research and the derived topics. This subchapter consists of an overview of scientific activities and achievements, associated with my academic and professional career, consistent with the topic of the habilitation thesis.

1.2. Research topics - This second subchapter on research topics is divided into six main, thoroughly described topics of discussion and research. The scientific papers resulting from my research are presented separately, together with the research topic they represent.

1.3. Research projects –research projects I participated in during my doctoral and post-doctoral career. These include two important research projects I conducted and finished, regarding the phenotypic and genotypic characterization of bacterial strains isolated from chronic wounds.

1.4. The results of scientific and research activity – Here I presented the scientometric indices related to my scientific work- a Hirsch index of 14, 1102 citations in ISI Web of Science Core Collection journals and a Hirsch index of 17, 1989 citations according to Google Scholar. Reviewer activity for eminent ISI-rated publications and membership of various national and international professional-scientific structures, as well as the awards of scientific activity at the national or international level, are also included in this subchapter.

Chapter 2 describes my academic achievements, from the positions of assistant lecturer and senior lecturer. My academic activity includes teaching in Romanian, in both Microbiology and Dermatology modules, for second year, respectively sixth year medicine students. It includes my contribution as an author or co-author of several Microbiology and Dermatology

textbooks, as well as the bachelor's thesis of medical students that I coordinated. My participation in admission, bachelor and residency exams is also mentioned.

Chapter 3 states my professional achievements, firstly as resident doctor in Dermatology, then specialist and senior dermatologist. It also includes a list of training courses, certifications, and examination committees I participated into. On the professional path, this chapter describes my clinical activity in the Dermatology field.

Chapter 4 summarizes my future plans and main objectives for academic career development. It is structured into four subchapters: my general objectives, the development of educational activity, the development of scientific activity and not lastly, the development of clinical activity. These three aspects are, in my opinion, linked, as I plan to deeply encourage my students and residents the desire to do research work. Based on my current and future knowledge I plan to inspire as many willing students, residents, and PhD students, as possible to prepare future research projects. I also plan to maintain and expand my connections with my colleagues in Dermatology, but also in other specialties, as Dermatology brings many interdisciplinary research opportunities.

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