

**THE „CAROL DAVILA” UNIVERSITY
OF MEDICINE AND PHARMACY, BUCHAREST
DOCTORAL SCHOOL
MEDICINE DOMAIN**

**ANATOMIC-CLINICAL AND IMAGING CORRELATIONS AS BASIS FOR
INTERDISCIPLINARY COLLABORATION**

SUMMARY OF THE HABILITATION THESIS

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ABSTRACT OF THE HABILITATION THESIS

This thesis describes the evolution of my teaching and clinical activity in accordance with the main research areas in which I have been involved. My professional training as an anatomist, intertwined with that of radiologist, and has shaped my entire teaching and scientific activity. Anatomy was the cornerstone in developing strong diagnostic imaging skills, especially in terms of diagnostic presumption and the direction of interdisciplinary collaboration in each individual patient. As a result, my research work has been based on a correlation between imaging and anatomical knowledge.

The first chapter presents the achievements in the scientific activities, mainly developing the papers elaborated in the personal dominant fields of research: anatomy and imaging with interdisciplinary applications. Furthermore, in this chapter, I have presented the scientific and research results, being a coauthor for numerous chapters included in more than 20 books. Regarding the publications in scientific journals, I published 22 articles published in journals with Impact Factor indexed in Web of Science (Core Collection) and 41 articles in journals indexed in international databases (IDB).

As for the elements of recognition of the scientific and research activity, I currently have a Hirsch index of 8 using ISI Web of Science, Core Collection, Thomson Reuters for the entire academic career, and a Hirsch index of 11 calculated in Google Scholar (Google Academics). I have accumulated 199 citations in ISI Web of Science with an average of 8.7 citations per paper and a total of 492 citations in international databases, according to Google Scholar. Also, I have been involved in national interdisciplinary research grants on the subject of anatomy and biology compatible prosthetic devices.

Chapter 2 presents the personal academic track, describing my evolution within the discipline of Anatomy, starting from the position of Teaching Assistant which I occupied since 1991, then promoted to Senior Lecturer in 2003, and later promoted to Associate Professor in 2007. This chapter features the main academic roles of the currently occupied position, as well as other supplementary academic steps taken. Furthermore, I have teaching experience not only

within the discipline of Anatomy, but also in related disciplines as well as within the postuniversity teaching system.

As part of the teaching activities, I have been responsible for the course coordination for the 2nd Series of students both first and second year of Anatomy study. I have coordinated approximately 5 license thesis each year and I have participated in the organization of the admission examination for the “Carol Davila” University of Medicine and Pharmacy, Bucharest in the last decade. I have participated as a member in internal competitions, and I am one of the founding members of the national Anatomy Society. I have been member in the final commissions for defending PhD thesis for 10 members of the academic community from Carol Davila University of Medicine and Pharmacy, Bucharest.

In the next chapter I present my professional record, starting from the admission in the medical specialty of Radiology and Medical Imaging in 1992, at The University Emergency Hospital in Bucharest. I have obtained several certifications for complementary studies, as follows: Certification for complementary studies in Computed Tomography, Certification for complementary studies in General Sonography, Certification for complementary studies in the Management of Health Services.

I have continuously improved my professional training by participating in over 50 medical congresses, conferences, seminars, and workshops which allowed for the integration of my medical specialty with my academic field, allowing for a broader, more complex, and detailed view of the mechanisms and processes involved in the pathology investigated. My current position is head of the Imaging Department at the Foisor Clinical Hospital of Orthopedics in Bucharest.

The last chapter comprises my proposal for the evolution and development of my academic career. I have identified a series of current critical problems requiring additional focus as soon as possible. I performed a SWOT analysis for consolidating the proposal for the evolution and development of the academic career. Furthermore, I underline the need to develop and consolidate the research group of the Anatomy Department, developing professional transdisciplinary teaching applications. One strong point in my proposal is the need to attract young professionals from various domains of activity towards undertaking PhD studies in Anatomy and translating their findings into clinical practice.

In conclusion throughout my activity, I tried to unite the anatomy basis with the imaging data and translating this information into clinical practice. I am proud of the research teams I collaborated with along the years. Proof to my interdisciplinary approach towards the patients are numerous articles published along specialists from radiology, surgery, pathology, orthopedics, ophthalmology, and ENT departments. In the future I will encourage the PhD students to submit complex and translational research themes starting from anatomy state of the art knowledge towards a better clinical management.