

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

**Integrated Research in Dermatological
Pathology - Advances in the Field of
Investigations, Therapeutics and Doctor-
Patient Relationship**

REZUMATUL TEZEI DE ABILITARE

CANDIDAT:

ORZAN Olguța Anca, șef de lucrări

Universitatea de Medicină și Farmacie “Carol Davila” București

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Summary of the habilitation thesis

The habilitation thesis entitled „Integrated Research in Dermatological Pathology - Advances in Investigations, Therapeutics, and Doctor-Patient Relationship” reflects my professional, academic, and scientific activity in Dermatovenereology after obtaining the title of Doctor of Medicine in 2014 (Order of the Minister of Health no. 1124/2014).

The content of the habilitation thesis is divided into 5 chapters as follows:

- Chapter 1 presents the main career development directions;
- Chapter 2 contains information about the professional activity, including the professional journey with the main fellowships and professional training courses, participation in examination committees for obtaining the title of specialist and senior physician, and recognition elements of the professional activity;
- Chapter 3 describes the academic career and main teaching responsibilities, detailing activities aimed at students and participation in admission and licensing exams;
- Chapter 4 was dedicated to scientific activity and was divided into 3 subchapters, which presented the main development directions: research in dermatological investigations; research in dermatological therapeutics; and research on doctor-patient relationship;
- Chapter 5 outlines the plans for the evolution and development of the academic career.

The main scientific contributions followed three major directions, developed in the three subchapters included in Chapter 4 of this work: research in dermatological investigations; research in dermatological therapeutics; and research on doctor-patient relationship.

Dermatology is one of the medical specialties where, for a long time, clinical examination was the only diagnostic method. However, given the need to improve diagnostic accuracy, with important therapeutic implications, my research activity has focused on advancing dermatological investigations, ranging from anatomical-pathological examination to immunohistochemical tests and imaging explorations. The research results have been disseminated through publications in peer-reviewed journals with an impact factor, indexed in ISI, as well as through the writing of books, chapters in books, and

presentations at various scientific events. Continuing the work started during my doctoral studies, I expanded my research in the field of dermatopathology and published the monograph *Insights into Granulomatous Dermatologic Disorders*. Orzan OA. Ed. Kf&T Kft. Budapest, 2024, ISBN: 978-615-60-56-16-0. I also collaborated in the writing of a textbook dedicated to clinical-pathological correlations in dermatology, coordinated by Dr. Irina Tudose, Head of the Department of Pathological Anatomy at Elias University Emergency Hospital, *Textbook of Clinical-Pathological Correlations in Dermatology*, Coordinated by Irina Tudose, Ed. Kf&T Kft. Budapest, 2024, ISBN: 978-615-6056-17-7.

I have extended the research to imaging investigations used in dermatology, which are based on non-invasive techniques and do not require a waiting period for the final result. As a result, I co-authored the book *Imaging Explorations in Dermatology*, Popescu I., **Orzan OA**, Ed. Carol Davila, 2014.

Dermoscopy and confocal microscopy are two imaging investigations that, although initially used in tumor pathology, are increasingly finding their place in inflammatory and infectious pathology. Through our research, we have made valuable contributions to identifying and diagnosing certain infectious pathologies and have communicated the results in the articles *In vivo reflectance confocal microscopy for the diagnosis of scabies*. Lupu M, Voiculescu VM, Vâjaitu C, **Orzan OA**. *BMJ Case Rep*. 2021;14(1):e240507 and *Rare Presentation, Critical Diagnosis: Primary Actinomycosis of the Foot*. Dorobanțu, A.M.; Lupu, M.; Popa, L.G.; Tatar, R.; Giurcăneanu, C.; Tudose, I.; **Orzan, O.A**. *Dermato* 2024, 4, 72-78.

Another work in which I presented innovative diagnostic and treatment techniques is *Recent advances in diagnosis and therapy of skin cancers through nanotechnological approaches*". Mihai MM, Holban AM, Călugăreanu A, **Orzan OA**. In *Micro and Nano Technologies, Nanostructures for Cancer Therapy*, Elsevier, 2017, Pages 285-306, ISBN 9780323461443. Nanotechnology, through the special properties of nanoparticles and complex nanosystems that can penetrate and be detected even in the deepest layers of the skin, can be used to rapidly and safely detect skin tumors.

The second subchapter was titled "Research in Dermatological Therapeutics." In recent decades, the therapeutic area in medicine has seen significant advancements. Biological therapies, targeted molecular agents, immune checkpoint inhibitors, etc. have been developed, and, with their widespread use, a new spectrum of adverse reactions has begun to be reported, followed by the development of specific management strategies for these reactions. We focused our research on documenting these adverse reactions, which

resulted in the publication of several articles in which, in addition to a systematic analysis of the literature data, we shared our experience from daily clinical practice.

The third subchapter was dedicated to research on the doctor-patient relationship. The research was conducted in collaboration with specialists in marketing and the study of patient behaviors (consumers of healthcare services) from the Academy of Economic Studies in Bucharest, and aimed to create an econometric model for measuring the influence of major determinants of patient satisfaction and its effects, based on structural equation modeling. The research results were published in the article *Modelling Patient Satisfaction in Healthcare*. Pentescu A, Orzan MC, Stefanescu CD, **Orzan OA**. Journal of Economic Computation and Economic Cybernetics Studies and Research 2014, 48(4), pg. 153-166.

In Chapter 5, based on my 15 years of teaching experience, I presented my plans for the evolution and development of my academic career. Thus, I intend to pursue the following strategic directions in my teaching career development plan: to provide quality education that is updated and relevant to the needs and requirements of students, as well as other academic categories; to develop and implement academic activities that promote critical thinking, practical skills, and the continuous updating of knowledge; to contribute to the innovation of teaching and learning methods by integrating educational technologies, actively utilizing online resources, and promoting practical experiences, thereby contributing to the development of a stimulating and interactive learning environment; and to continue my involvement in academic mentoring, providing guidance and support to students and residents in their professional and personal develop.

Because scientific research is a crucial aspect of our academic activities, I will prioritize high-quality research, such as clinical and experimental studies, and data analysis. This research will mainly focus on investigations in dermatology, therapeutic advancements, and doctor-patient relationships.