

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



**CONSTANT PURSUITS IN THE FIELD OF
PARIETAL DEFECT SURGERY,
ONCOLOGICAL SURGERY AND
MULTIDISCIPLINARITY**

ABSTRACT OF HABILITATION THESIS

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ABSTRACT OF HABILITATION THESIS

The qualification thesis entitled "Constant pursuits in the field of parietal defect surgery, oncological surgery and multidisciplinary" is structured in three sections, respecting the recommendations of CNATDCU from Romania and the national legislation.

First section presents the essence of the academic, scientific and research activity, chronologically detailing the stages of my medical and teaching career, together with the most important publications, research grants obtained through competition, monographies, scientific articles published in national and international journals and awards obtained. Through the lens of clinical activity, affiliations to specialized scientific societies are also presented.

I am a graduate of the Faculty of General Medicine of the Carol Davila University of Medicine and Pharmacy in Bucharest, class of 1995, with an average of 9.99. Following the National Residency Competition in November 2003, where I obtained the 10th position in the country, I obtained a position as a resident doctor in the specialty of General Surgery, training that I carried out in the General Surgery Clinic of the Colentina Clinical Hospital in Bucharest. In 2000, I took and passed the exam to obtain the title of General Surgery specialist, and in 2005 I became a senior physician.

I started my teaching career in 2003 as a University Assistant in the General Surgery Clinic of the Colentina Clinical Hospital, within the Faculty of Medicine of the University of Medicine and Pharmacy "Carol Davila" Bucharest. In October 2012 I became University Lecturer following the competition organized in September 2012, and in October 2017 I became University Associated Professor following the September 2017 competition.

Continuing my professional medical career, I sought to permanently improve and expand my area of expertise by attending advanced training courses and consecutively acquiring multiple certificates of complementary studies. I mention here, in chronological order, the following: Diagnostic Digestive Endoscopy (29.04.2002), Laparoscopic Surgery (21.04.2003), Health Services Management (21.04.2003), Oncological Surgery (28.05.2014), Therapeutic Digestive Endoscopy (18.05.2016), General Ultrasound (09.11.2022). Also in the field of acquired skills, I mention that I graduated the Trainer Course (Graduation Certificate No. 00158529 / March 16, 2016) and the Project Manager Course (Graduation Certificate No. 00398529 / 12.16.2014).

From my debut in medical activity until now, I have constantly participated in numerous national and international congresses, both as an invited lecturer and as a participant, with oral or poster presentations.

I am involved as a member in multiple national and international professional scientific societies: the Romanian Society of Surgery (member of the Board of Directors), the Romanian Association of Endoscopic Surgery, the European Society for Biomaterials, the Romanian Journal of Morphology and Embryology, the Romanian Association of Hydatology (Censor).

The PhD thesis, coordinated by Mr. Prof. Univ. Dr. Eugen Brătucu, entitled "Results of surgical treatment in rectal cancer", was held in public session on 14.02.2011, within the Doctoral School of the "Carol Davila" University of Medicine and Pharmacy in Bucharest. This moment represented the successful conclusion of a first phase (2003 - 2011) of assiduous research and sustained documentation, working tools that were subsequently cultivated and continuously improved towards obtaining important results in the medical field, a fact that facilitated their publication in ISI rated journals with impact factor, national as well as international.

I continued my postgraduate studies by completing a 2-year Master's degree at the Polytechnic University of Bucharest - Faculty of Medical Engineering, in the field of study "Applied engineering sciences", the study program "Smart biomaterials and applications", which I graduated in June 2021 with the work entitled "Investigation of methods to improve the integration of polypropylene meshes".

In 2016, I obtained a certificate of postdoctoral studies at the Postdoctoral School of Animal Biodiversity and Food Biotechnologies from the National Institute of Economic Research Costin C. Kirițescu from the Center for Biodiversity Studies and Research Acad. David Davidescu belonging to the Romanian Academy, with the theme of study "Scientific contributions to the holistic approach of general surgery, within the innovative framework of medical bioeconomy and ecosanogenesis".

My research activity is highlighted by the publication of 24 Clarivate - Web of Science indexed articles with impact factor and 33 Clarivate - Web of Science articles without impact factor published in extenso. I also mention the publication of 23 full-length articles in international and national journals indexed in international databases and 75 abstracts appearing in papers of the main international specialty conferences and abstracts of papers presented at international specialty conferences.

I participated as a member in 11 research grants, as a director/responsible in 2 national grants, as a member in an international grant and as a member in 8 national grants.

I have participated and participate as principal investigator in 22 national/international studies and sub-investigator in 2 studies.

In each of the 11 years since I have been leading the Colentina Surgery Discipline within the Department 10 of Surgery of the Faculty of Medicine of UMFCD, I have coordinated an average of 10 graduates of the faculty for the completion of their Bachelor's Thesis, many of them still remaining involved in various aspects of the medical and research activity carried out at the level of the Discipline.

I actively supported and participated in the Innovation and E-Health Center of UMFCD (CIEH/UMFCD) with minimally invasive surgery trainings and workshops supported by members of the discipline members. We have always supported the student scientific organizations of UMFCD in carrying out their scientific events.

I obtained an invention patent for a work carried out in 2008 with the title "Equipment for the preservation and cryopreservation of the human cornea" (OSIM no. RO 121757 B1 / 30.04.2008).

My academic career was completed by the editorial activity that includes the publication of a monography in a national publishing house as sole author, 6 monographies in national publishing houses as a co-author and 30 chapters in treatises published in national publishing houses.

I also worked as a Reviewer for Chirurgia Magazine, performing 18 article reviews in the period 2020-2023.

I was also concerned with the involvement in the organizational activity of the UMFCD, of which I am a part, and I participated twice, in 2016 and 2020, in the elections that decide the governing bodies of the University, being elected both times as a member of the Faculty Council of Medicine.

I was a member of 2 competition commissions at the UMFCD level (for university promotion, under the leadership of Prof. Mircea Beuran), in 3 specialist/primary doctor examination commissions (under the leadership of Prof. Dr. Traian Pătrașcu), as well as in 4 doctoral commissions to analyze the candidates' dissertations or even to final defend of the thesis.

I was President in 3 commissions organized for contests for Head of Section in the national health network and in 4 commissions organized for contests to occupy the positions of specialist surgeon.

I have been a member of the College of Doctors from Romania since the beginning of my work as a doctor, and on 17.10.2020 I was elected Representative of the College of Doctors from the Municipality of Bucharest in the National General Assembly of the College of Doctors from Romania.

In the **second section**, the directions for the development of the academic career and scientific research are presented, having as a starting point the studies carried out and the research projects carried out or in progress.

In the sense of the successful continuation of the teaching, research and medical career, I will have in the foreground, as before, the observance of the principles and norms of ethics and professional deontology, fundamental values such as: academic freedom, personal autonomy, equal opportunities, merit, justice and equity, professionalism, honesty and intellectual correctness, transparency, respect and tolerance and last but not least, responsibility.

A professional career becomes successful if teamwork is promoted: the teaching staff team, the teaching staff team - students, the teaching staff team - residents, the teaching staff team - medical staff. Respect for competence and professionalism in medical, research and teaching activities must be present in all conditions, even in special situations, such as those during the SARS-Cov2 coronavirus pandemic.

Based on the experience gained so far, I propose the following as specific research objectives:

1. Continuation of the surgical activity addressed to the abdominal parietal defects, seeking to extract that information to be published in the sense of developing techniques to increase the degree of tissue integration of the alloplastic materials used, avoiding subsequent recurrences and complications of any kind.
2. Continuation of surgical activity in the oncological field, with expansion of the techniques used and better integration of minimally invasive treatment options.
3. Continuation of the study for the selection of the best methods of treatment with direct application for the healing of wounds with chronic, difficult evolution.
4. Continuation, at team level, of the development and application of minimally invasive therapeutic techniques in the treatment of abdominal echinococcosis.
5. Continuation of the multidisciplinary activity within the complex teams that focus on neurological or other pathologies.

My didactic and scientific activity carried out up to now represents a good foundation for future directions of development. The maturity in research that I obtained by building this publishing portfolio will be the basis of my individual evolution and will contribute significantly to the success of future projects, which will be carried out within the "Carol Davila" University of Medicine and Pharmacy. I hope that in this way I can make a modest contribution to the better positioning of the university nationally and internationally.

The **third section** contains the studied bibliographic references that contributed to the development and support of this work.