

ABSTRACT HABILITATION THESIS

Clinical and biological interdisciplinary approach of the metabolic disorders and associated pathology

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The present Habilitation thesis comprises my research, professional and academic activity undertaken after being awarded the PhD title. This was accomplished in 2003 after presenting my PhD thesis entitled "The role of certain exogenous, physical and biological factors in the induction of hematological malignancies".

Scientific activity: The scientific activity materialized in numerous publications: a) 7 speciality books, out of which 4 as first author, and 3 as co-author; b) 1 lithographed course as co-author; c) 22 in extenso articles published in ISI journals, out of which 17 ISI articles with IF (10 ISI articles as main author and 7 ISI articles as co-author) and 5 articles in ISI journals without IF (3 as main author, 2 as co-author); d) 38 articles in B + / BDI indexed journals, out of which 31 as main author and 7 as co-author; e) 5 articles in B indexed journals (3 as main and 2 as co-author); f) 19 abstracts in ISI journals as co-author; g) 48 abstracts in ISSN/ISBN volumes, out of which 8 as first author and 40 abstracts as co-author.

I performed my research activity both within my postdoctoral studies and during several projects in which I was involved. Thus, as a postdoctoral fellow my theme was "Ethiopatogenic aspects concerning the involvement of certain factors in the various development of neoplasias" within the "Advanced research through post-doctoral programs in basic and clinical medical sciences". Through the grants that I submitted or I won as director or project manager, I have proven that I have the ability to lead and coordinate such projects, and as a member I demonstrated to have team spirit and openness to good communication with the entire research team. I took part in several projects as: a) project director in 2 grants that were won; b) project manager in 2 grants that were won; c) member in 3 grants that were won and d) 9 clinical trials in the field of diabetes.

The research directions were represented by the neoplastic, metabolic, nutritional and cardiovascular pathologies and their complications through the specialty of Internal Medicine, and interdisciplinary research related to cellular and molecular biology.

Due to the fact that, I am a teacher in a preclinical field, and also a specialist in Internal Medicine/ Diabetes in a clinical field, I have always searched a complex ,dual approach of the pathology I daily dealt with in the doctor-patient relationship. I participated in the project "Iowa Non-communicable Chronic Diseases Research Training Program in Romania" and won a Fogarty, Fall Semester scholarship, which has resulted in an internship training for five months at the University of Iowa, USA. Over the years I have guided and coordinated undergraduate, master's and doctoral students in developing their dissertation and scientific papers for publication and presentation at conferences and congresses. I am a member in the editorial teams and a reviewer of two BDI indexed speciality journals. Also I am a member in 4 national scientific societies.

Professional accomplishments: I graduated the Faculty of Medicine in Țirgu Mureș in 1991, and started work as a trainee doctor at the Mureș County Hospital. In 1996 I became a specialist in Internal Medicine, and in 2000 primary physician working in the Adult Outpatient Department No. 2 in Țirgu Mureș. In 2001 I acquired competence in general ultrasonography, which was a real help in my medical practice. In 2005 I sustained my master's degree thesis in Health management, which allowed me to develop my organizational and communication skills in this area. In 2013 I became a specialist in Diabetes, Nutrition and Metabolic diseases. Currently I work in the Department of Diabetes, Nutrition and Metabolic Diseases from the Clinical Emergency County Hospital from Țirgu Mureș. I attended several local, national and international continuing education courses in the field of Internal Medicine, Cardiology, Gastroenterology and Diabetology.

Academic achievements: Since 1993 I have been teaching at the University of Medicine and Pharmacy from Țirgu Mureș. I gradually went through the staff training stages: 1993-1995 junior lecturer; 1995-2005 assistant professor; 2005-2007 lecturer. Since 2007 I am an associate professor at the Cellular and Molecular Biology Discipline at the Faculty of Medicine, where I work with undergraduate and Master's students. I attended some training courses in the academic field: PROFEX "Medical English" Language Competence course in 2009, "Medical Education Course" between 2007-2008, a course as "Manager of Quality Management Systems" in 2012, ECDL course of "Computer use, information processing" in 2012. Besides these I attended postgraduate courses with topics related to cellular and molecular biology. During 2012-2014 I was Vice Dean at the Faculty of Medicine. I was chairman in the following commission: Election Commission of the University in 2012, 2015 and 2016; The Evaluation and Quality Assurance Commission of the Faculty of Medicine 2012-2014; Commission for granting social scholarships at the University level in 2012; Doctoral Dissertation Committee in 2012-2014. I was a member in: the Council of the Faculty of Medicine between 2012-2014 as Vice Dean; Commission for Postgraduate and Residency Training in 2013; Commission for student issues in 2014; Commission for recognition of ECTS credits in 2014; the ECTS Commission in 2013. I attended a leadership training workshop of the Faculties of Medicine, entitled "Deans' School", organized by the University of Medicine and Pharmacy „Iuliu Hatieganu” from Cluj-Napoca in collaboration with the International Deans' Conference and that of the Faculties of Medicine of French section in 2013.

Evolution and development plans: For the future I intend to develop my research activity in the directions mentioned above, especially concerning chronic diseases in the field of Internal Medicine, Diabetes and Metabolic diseases through a comprehensive interdisciplinary approach from the perspective of cellular and molecular biology as a fundamental science seen nowadays as an important domain of medicine. These plans can be achieved through teamwork and collaboration with the Center for Advanced Medical and Pharmaceutical Research, center whose exceptional endowment can ensure the practical implementation of research projects. The title that I have chosen for the Habilitation thesis, *“Clinical and biological interdisciplinary approach of the metabolic disorders and associated pathology”* reflects my orientation in the scientific, academic and professional career.