

**„VICTOR BABEȘ” UNIVERSITY OF MEDICINE AND
PHARMACY, TIMIȘOARA**



U M F T

**Universitatea de
Medicină și Farmacie
„Victor Babeș”
din Timișoara**

HABILITATION THESIS SUMMARY

**PEDIATRIC PSYCHIATRY BETWEEN RESEARCH, CLINICAL
IMPLICATIONS, MODERN TREATMENT APPROACHES,
MULTIDISCIPLINARY INTEGRATIVE - PHARMACOGENETIC,
NEUROIMAGISTIC CORRELATIONS AND NEW PERSPECTIVES**

Domain: MEDICINE

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The habilitation thesis, entitled "**Pediatric Psychiatry between Research, Clinical Implications, Modern Treatment Approaches, Multidisciplinary Integrative – Pharmacogenetic, Neuroimaging Correlations and New Perspectives**" represents the quintessence of my professional, scientific and academic activity, especially referring to the achievements acquired after the conferral of the PhD in Science title in 2011. The PhD had the pediatric psychiatry as domain and as theme and title - "*Psychoses with childhood and adolescence onset - premorbid adaptation, ways of onset and evolution*".

First part of the thesis includes the main scientific, professional and academic achievements. **Chapter 1** covers the main areas of research, presenting original studies, books, articles published in ISI or BDI indexed international journals and scientific papers presented at national and international congresses, in the current scientific context of the pediatric psychiatry domain. In recent years, I have been particularly interested in the research of the following topics: psychotic disorders in children and adolescents and their management, vulnerability markers, groups with risk of developing psychopathology, genetic studies, psychiatric habilitation and rehabilitation, the role of psychotherapy.

In **Chapter 2**, I focused on modern multidisciplinary integrative approaches in the context of new trends in current medicine. The subchapters refer to the personalized treatments and the role of pharmacogenetics in most recent researches done, respectively the integrative, multidisciplinary - pharmacogenetic, neuroimaging and neuroendocrinological correlations. The researches are original, innovative and valuable because, especially in the pediatric population, this type of studies don't exist or are very rare. **Chapter 3** incorporates the evolution and the main post-doctoral professional achievements. So, in 2015, I became a Senior Specialist in Pediatric Psychiatry and Head of Department of Pediatric Psychiatry Clinic at the Emergency Hospital for Children "Louis Țurcanu", Timișoara. The management and leadership experience is proven by the fact that: from 2015 until now, I am Chief of Discipline and Internship Coordinator in Pediatric Psychiatry. I am President of the Romanian Society of Child and Adolescent Neurology and Psychiatry. So, I have proven the skills and ability to lead or engage in research projects, also through the won grants - 2 as Director, 4 as Project Coordinator and 2 as team member. I am Head of Clinical Studies and Scientific Research at "Louis Țurcanu" Emergency Hospital for Children, Timișoara. I am also Head of

the Center of Excellence of Scientific Research for Family, Pediatric Psychiatry and Psychotherapy, "Victor Babeș" University of Medicine and Pharmacy, Timișoara.

In *Chapter 4*, I am talking about the scientific development and achievements and national and also international professional recognition. Throughout all my professional, medical, scientific and academic career, I have participated in numerous national and international congresses, both with oral presentations, but also as an invited speaker, disseminating the results of my post-doctoral researches. I am also the Chief editor of the Romanian Journal of Child and Adolescent Neurology and Psychiatry, an international database BDI indexed journal. I have organized several national congresses with international participation. I am a peer-reviewer for numerous ISI/BDI indexed national and international journals. As a recognition of professional and scientific merits, I was awarded both nationally and internationally. Regarding the relevance and impact of my scientific results, the chosen research themes approach several directions and aspects of pediatric psychiatry, with complex integrative and multidisciplinary interferences, reflected in published books and articles that prove originality, actuality, synthesis capacity, scientific concept integration, high scientific level, but also a comprehensive, complex approach. So, I have written and published books in CNCSIS recognized publishing houses: 1 treatise as the only author and 3 treatises as co-author or as a member of the editorial team, 5 chapters in medical books/treatises, 3 monographs and a book as main author. I have published 19 articles in extenso, as principal author or in collaboration with other authors, in ISI-rated scientific journals with impact factor and 31 articles in extenso in BDI, international databases indexed scientific journals. I have presented an important number of papers at international, national congresses with international participation and at national scientific events: 50 presentations at international congresses/ with international participation. I have published 50 articles in ISI, BDI indexed summaries, with ISSN/ISBN. I was invited as lecturer, "invited speaker" for 11 presentations (8 international and 3 national with international participation). Publications from various ISI international journals have been of scientific impact and recognized, accumulating a total of 79 citations in the ISI Web of Science system and a Hirsch index, h-index=7. Part of the research, I conducted at the Center for Excellence of Scientific Research for Family, Pediatric Psychiatry and Psychotherapy, of "Victor Babeș" University of Medicine and Pharmacy, Timisoara, that I coordinate. The professional experience I have gained in other international

institutions and clinics, following international scientific prizes or scholarships, has contributed to my training and academic, clinical as well as scientific development. I have carried out research activities in the framework of grants won through national and international competitions and through 40 international multicentric clinical trials.

Chapter 5 includes aspects of academic evolution and achievements. So, I went through all the stages of the academic hierarchy, and after the competition, in 2015, I became Lecturer in the Pedopsychiatry Discipline, Department of Neuroscience at the „Victor Babeș” University of Medicine and Pharmacy in Timișoara and in 2017 following the competition, I became Associate Professor at the Pedopsychiatry Discipline. I have been involved in modernizing and adapting the didactic activities in line with current requirements and international models. I have developed teaching materials and introduced new courses on previously not elaborated before directions - Genetics of psychiatric disorders; Family therapy; Pharmacogenetic courses. I also designed learning softwares - specialized audio-video research software accredited in the field of pediatric psychiatry and psychotherapy, processed within our Research Center of Excellence. I have developed these didactic materials in order to facilitate and modernize the didactic process, to familiarize the future doctors with the clinical elements. I organized workshops for students/resident doctors and coordinated papers presented by students/resident doctors at scientific events and numerous diploma papers.

Part 2 of the thesis elaborates evolution and development plans of the professional, didactic and research career. The lately achievements, allow me to step further into translating the scientific innovations from fundamental research to clinical practice and give me the opportunity of education in high-level medical research. I want to continue the research in the field of personalized therapies, already started also in research projects. This obtained multitude of multidisciplinary data can be innovatively elaborated, through a platform of neurobiological, pharmacogenetic, clinical, high-standard neuroimagic biomarkers and integrative correlation can be achieved through the matrix and algorithm of the support vector machine, choosing customized treatment according to the profile of each patient. I will continue, as my moral duty to promote high standards for the medical and university education of resident doctors and students. I want to combine both clinical practice and research at the Center of Excellence, involving new generations of students and resident doctors, and to support the development of Pedopsychiatry Discipline. Through the future

coordination of doctoral theses, I will boost the work of new PhD students and the dissemination of doctoral research results, in the national and international scientific environment together with increasing the visibility of the University. I will continue to support multidisciplinary, interdisciplinary collaboration and innovative, evidence-based research in psychiatry.

The *third section* contains bibliographic references, used to integrate the research activities described in previous sections.