CURRICULUM VITAE

PERSONAL DETAILS

Family name, First name: **LAMBRESCU Ioana-Maria**
Researcher unique identifier(s):
https://www.webofscience.com/wos/author/record/G-6477-2015
https://orcid.org/0000-0003-2040-8671
https://www.researchgate.net/profile/Ioana-Lambrescu?ev=hdr_xprf
https://www.ivb.ro/cell-biology-home

Education and key qualifications

2018	PhD Faculty of Medicine/Endocrinology, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania. Thesis: *Biological, histopathological, and immunohistochemical factors involved in the progression and prognosis of patients with neuroendocrine tumors*
2014	Specialist in Endocrinology Elias University Hospital, Endocrinology Department, Bucharest, Romania
2008	MD Faculty of Medicine, Carol Davila University of Medicine and Pharmacy Bucharest, Romania

Current position(s)

2024 - present	Scientific researcher gr. III Cell Biology, Neurosciences and Experimental Myology Laboratory, Victor Babes National Institute of Pathology, Bucharest, Romania
2023 - present	Lecturer Faculty of Medicine/Cell, Molecular Biology and Histology, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania

Previous position(s)

2019 - 2024	Assistant Researcher Cell Biology, Neurosciences and Experimental Myology Laboratory, Victor Babes National Institute of Pathology, Bucharest, Romania
2017 - 2018	Scientific researcher Elias University Hospital, Endocrinology Department, Bucharest, Romania
2014 - 2017	Consultant in Endocrinology Matei Basarab Medical Center, Bucharest, Romania

RESEARCH ACHIEVEMENTS AND PEER RECOGNITION

Research achievements

My research focuses on the integration of clinical, histopathological, immunohistochemical and molecular data to better characterize neuroendocrine neoplasms and to identify accessible biomarkers with prognostic and predictive value. A central objective of my work has been to bridge clinical endocrinology with cellular and molecular biology, aiming to translate laboratory findings into clinically relevant tools. During my PhD, I investigated biological and histopathological factors involved in the evolution of neuroendocrine tumors, highlighting their marked heterogeneity and emphasizing the need for multidisciplinary and personalized approaches. My work contributed to the understanding of therapeutic

strategies in neuroendocrine neoplasms, particularly metronomic and targeted treatments, as well as to the identification of circulating inflammatory indices and peripheral blood parameters as potential prognostic markers. In parallel, I expanded my research toward molecular diagnostics and experimental models, with a focus on droplet digital PCR applications and nucleic acid quantification, contributing to methodological advances in muscular dystrophies and minimal residual disease detection. More recently, my activity has extended to translational research in experimental myology and tissue repair, including immune–stem cell interactions and drug repositioning strategies. Thus, my activity supports an integrated translational framework that connects clinical data, histopathology, molecular profiling and experimental models, with the long-term goal of improving diagnosis, prognosis and therapeutic stratification in cancer and degenerative diseases.

Representative research outputs include:

- **Lambrescu IM**, Fica S, Martins D, et al. *Metronomic and metronomic-like therapies in neuroendocrine tumors – rationale and clinical perspectives.* Cancer Treatment Reviews, 2017.
- Georghișan-Gălățeanu AA, Iliești A, **Lambrescu IM*** et al. *The Complex Histopathological and Immunohistochemical Spectrum of Neuroendocrine Tumors – An Overview of the Latest Classifications.* International Journal of Molecular Sciences, 2023 (**corresponding author*).
- **Lambrescu IM** et al. *Assessment of peripheral blood cell parameters as a valuable tool in patients with neuroendocrine neoplasms.* Neuro Endocrinology Letters, 2022.
- **Lambrescu IM**, Popa A, Manole E, et al. *Application of Droplet Digital PCR Technology in Muscular Dystrophies Research.* International Journal of Molecular Sciences, 2022.
- Țăpoi A, **Lambrescu IM*** et al. *Preoperative evaluation of thyroid nodules – Diagnosis and management strategies.* Pathology Research and Practice, 2023 (*corresponding author*).
- Manole E, Niculite C, **Lambrescu IM** et al. *Macrophages and Stem Cells – Two to Tango for Tissue Repair.* Biomolecules, 2021.
- Martins D, Spada F, **Lambrescu IM** et al. *Predictive Markers of Response to Everolimus and Sunitinib in Neuroendocrine Tumors.* Targeted Oncology, 2017.
- **Lambrescu IM** et al. *The Potential Benefits of Drug Repositioning in Muscular Dystrophies.* In: Potential Therapeutic Strategies for Muscular Dystrophy, IntechOpen, 2023.
- Octavian Costin Ionghen, Gisela Gaina, **Ioana Maria Lambrescu** et al. *Bacterial products initiation of alpha-synuclein pathology: an in vitro study.* Scientific Reports, 2024.

Patent applications

- OSIM A2020 00820/2020 Cismasiu V, Gaina G, Ionescu V, Gruianu A, Lambrescu I. Amprentarea genetică umană prin detecția și dozarea unor mutații de tipul inserțiilor și delețiilor
- OSIM A2019/00719 Valeriu Cismasiu, Gisela Gaina, Dan Soare, Ionescu Victor, Ioana Lambrescu. Set of two primers and two probes for the detection and determination of mutant NPM1 gene expression

Peer recognition

- ENETS CoE Training Fellowship Grant Recipient 2016
  Specialized training fellowship at European Institute of Oncology (Milan, Italy), within the Neuroendocrine and Digestive Cancer Program, under the supervision of Dr. Nicola Fazio.

I benefited from international mobility through dedicated training periods, including an ENETS Centre of Excellence Fellowship at the European Institute of Oncology (Milan, Italy) and a clinical training rotation in endocrinology and diabetes at CHU Lapeyronie (Montpellier, France). Earlier in my career, I also undertook volunteer research activities at the “Victor Babeș” Institute, which facilitated my transition toward laboratory-based research. Overall, my career reflects interdisciplinary mobility between clinical practice and laboratory research, supporting my current focus on translational oncology and molecular medicine.

ADDITIONAL INFORMATION

Total number of publications: 24 (Web of Science),
Total number of citations (excluding self-citations): 204 (Web of Science),
h-index: 8 (Web of science).

Career breaks, unconventional career paths and major life events
No career breaks, unconventional career paths or major life events to declare.

Other contributions to the research community

I have contributed to several national and institutional collaborative projects hosted by the "Victor Babeș" National Institute of Pathology and Biomedical Sciences, supporting the development of translational research infrastructure and interdisciplinary teams. I have been an active member of research groups addressing oncology, neurodegeneration, molecular diagnostics, and experimental myology, contributing to projects focused on sarcopenia associated with neurodegenerative diseases, intestinal microbiota and molecular detection of residual tumor cells. I also participated in institutional excellence and capacity-building initiatives, including the EXCELSAN program and the creation and operationalization of the National Center of Competence in Cancer (CNCC), where I contributed to projects aimed at standardizing and automating early and precision diagnostics in colorectal cancer. My role within these projects involved experimental work, methodological optimization, interdisciplinary collaboration, and knowledge transfer between laboratory research and clinical practice. I contributed to two pending patent applications in molecular diagnostics and genetic fingerprinting, focusing on primer/probe design for mutant gene detection and on methodologies for identifying insertion–deletion mutations, with translational relevance for oncology and post-transplant hematopoietic monitoring. In addition, I co-supervised two research theses for graduates of the Faculty of Pharmacy at Carol Davila University of Medicine and Pharmacy, Bucharest: one addressing diagnostic challenges in neuroendocrine tumors, and the other focusing on the application of artificial intelligence for the staging of membranous glomerulopathies.

Memberships:
- European Society of Endocrinology (ESE)
- European Neuroendocrine Tumor Society (ENETS)
- European Society for Medical Oncology (ESMO)