**DECLARATION IN LIEU OF CERTIFICATION AND SWORN AFFIDAVIT**
(Pursuant to Articles 46 and 47 of Italian Presidential Decree No. 445/2000)
Aware of the criminal penalties provided for under Article 76 of Italian Presidential Decree No. 445/2000 in the event of false statements, the use of forged documents, or the submission of false documentation, I, Francesca Paganelli, born in Vasto (CH), Italy, on 18 March 1994, hereby declare under my own responsibility the following:

*CURRICULUM VITAE*

# FRANCESCA PAGANELLI, **Fixed-term Researcher under Law 240/2010**

## • RESEARCH INTEREST AND SCIENTIFIC ACTIVITY

My research activity is consistently focused on understanding the molecular mechanisms underlying cancer cell aggressiveness and metastatic potential. Particular attention is dedicated to the study of nuclear envelope proteins and their role in key cellular processes such as differentiation, migration, and proliferation, especially in the context of bone sarcomas. The major research line involves investigating how alterations in nuclear proteins, such as lamin A/C and components of the LINC complex, affect nuclear morphology and chromatin architecture, with significant implications for genomic instability, tumor progression, and metastasis. Given that nuclear shape, size, and chromatin organization are considered critical diagnostic markers in oncology, their functional significance in cancer development remains a key focus.

Recently, I have expanded my research interests to regenerative medicine, focusing on the study of calcified tissues. Within the activities carried out at the Section of Human Morphology of the University of Modena and Reggio Emilia, directed by Prof. Carla Palumbo, I am involved in the functional testing of innovative materials with regenerative potential and in the subsequent morphological and histological analysis of the bone tissue in which these materials are implanted, in order to evaluate their effectiveness and degree of biological integration.

Over the years, I have developed solid expertise in cellular and molecular biology. I currently provide scientific supervision to undergraduate and graduate students, research fellows, and PhD candidates, and serve as co-supervisor for several Master's degree theses in the Biotechnology and Pharmacy programs.

Scientific contributions are supported by peer-reviewed publications in international journals.

**H-Index:** 13 (Scopus), **ORCID**: 0000-0002-8694-2140

## • EDUCATION

**2023** – Ph.D. in Biomedical and Neuromotor Sciences (BIO/16), University of Bologna
**Thesis:** *"Nuclear shape instability caused by lamin A deregulation promotes invasiveness in pediatric bone sarcomas: from nucleo-cytoskeleton dynamics to novel therapeutic opportunities"*

**2021** – Professional qualification as Biologist, obtained at the University of Parma

**2019** – M.Sc. in Medical Biotechnology (LM-9), University of Bologna
**Thesis:** *"A novel human diabody (dAbC7) directed against CD99 as a potential application in T cell acute lymphoblastic leukemia (T-ALL)"*

**2017** – Summer School: *"Innovation and Technology Management in Medical and Pharmaceutical Biotechnology"*
The course focused on key concepts related to the regulation of biotech companies, particularly bio-

business fundamentals such as product development, intellectual property rights, and funding models.

**2016** – B.Sc. in Biotechnology (L-2), University of L'Aquila
**Thesis:** *"Retinal neurodegeneration in diabetic retinopathy"*

- PROFESSIONAL EXPERIENCE

| | |
|---|---|
| **July 2025 – Present** | **Fixed-term Researcher under Law 240/2010** (BIOS-12/A – Human Anatomy)<br>Department of Biomedical, Metabolic and Neuroscience Sciences, University of Modena and Reggio Emilia |
| **July 2023 – June 2025** | **Postdoctoral Research Fellow** (BIO/16)<br>Department of Biomedical and Neuromotor Sciences, University of Bologna<br>**Project title:** *"Role of UHRF1 and its regulation as a potential novel therapeutic strategy in cancer"* |
| **November 2022 – June 2023** | **Postdoctoral Research Fellow**<br>National Research Council (CNR), Institute of Molecular Genetics, Bologna Unit<br>**Project title:** *"Epigenetic regulation of nuclear inositides in the MDS/AML microenvironment and progression: new targets, new therapies, and new drugs"* |
| **November 2019 – October 2022** | **Ph.D. Student**<br>Department of Biomedical and Neuromotor Sciences, University of Bologna |
| **June – October 2019** | **Postgraduate Intern**<br>National Research Council (CNR), Institute of Molecular Genetics, Bologna Unit<br>Awarded a scholarship for a postgraduate training internship |

- TEACHING ACTIVITIES

**2025/2026:** Lecturer for *Microscopic Anatomy II*, Degree Course in Medicine and Surgery, University of Modena and Reggio Emilia

**2024/2025:** Teaching Assistant ("Cultore della materia") in *Human Anatomy* (BIOS-12A), Degree Course in Medicine and Surgery, University of Modena and Reggio Emilia *(Approved by the Degree Program Board on November 7, 2024; ratified by the Faculty Council on November 26, 2024)*

Teaching Assistant ("Cultore della materia") in *Human Anatomy* (BIOS-12A), Degree Course in Pharmacy, University of Bologna *(Approved by the Degree Program Board on June 12, 2024)*

- ACADEMIC QUALIFICATIONS

***National Scientific Qualification (ASN) for Associate Professor (Second-Level Professorship)***
Competition Sector 05/H1 – Human Anatomy
Awarded on 12 June 2026.

- MEMBERSHIPS IN SCIENTIFIC SOCIETIES / RESEARCH NETWORKS

Member of the Italian Society of Anatomy and Histology (SIAI)
Member of the Italian Society of Histochemistry (SII)
Member of the Italian Association of Cell Biology and Differentiation (ABCD)
Italian Laminopathy Network

- INVOLVEMENT IN RESEARCH PROJECT

**CARISBO 2022**- PI: Dr. Francesca Chiarini
Project title: Role of lamina A in the malignancy of pediatric bone sarcomas and its modulation with statins: a new therapeutic opportunity for pediatric cancers with still unmet clinical needs.
Role:Phd student.

**PRIN 2017** – Protocol Number: 2017RKWNJT National coordinator: Prof. Matilde Y. Follo. Project title: Epigenetic Regulation of Nuclear Inositides in Bone Marrow Microenvironment and MDS/AML Progression: New Targets, Therapy and Drugs. Role: research fellow.

- AWARDS AND HONORS

**2020: Cover Image**: Martelli AM, **Paganelli F**, Chiarini F, Evangelisti C, McCubrey JA The Unfolded Protein Response: A Novel Therapeutic Target in Acute Leukemias. Cancers (Basel) 2020; 12:333

**2019: Awarded a scholarship by the School of Microscopy, IRST, Meldola (FC)**

- PUBLIC ENGAGEMENT

- Third Mission activities carried out in collaboration with LEO Scienza Association within the UniJunior project. UniJunior is an educational science communication and public engagement initiative for children, promoted by the cultural association LEO Scienza. It is the first Italian Children's University and is part of the European Children's Universities Network (EUCU.NET)
-Scientific Outreach Activities organized by the National Research Council (CNR), Institute of Molecular Genetics, Bologna Unit, within the framework of the "Society Next" project (Marie Skłodowska-Curie action, G.A. no. 101036092), funded by the European Commission – European Researchers' Night.
-LDR Project (Language of Research) – scientific outreach project in secondary schools, funded by the Italian Ministry of University and Research (MUR).
-Agenda 2030 for Girls and Boys – scientific outreach project in primary schools, funded by the Metropolitan City of Bologna.

Modena, 29/06/2026