

Dr. Stavroula (Lina) Pallada

Dr. Stavroula (Lina) Pallada, is an Associate Professor in Applied Nuclear Physics, a Medical Physicist, and a Radiation Protection Expert. She currently teaches and conducts research at **HEPIA** (Haute école du paysage, d'ingénierie et d'architecture) within the **HES-SO Genève**.

Professional Roles & Affiliations

- **Associate Professor:** Based at HEPIA-Geneva, she is part of the Nuclear Chemistry and Physics group.
- **CERN Researcher:** She serves as a Team Leader for the IS666 project at ISOLDE, focusing on nuclear spectroscopic techniques for biological and chemical applications.
- **Expert Consultant:** She provides expertise in radiation protection and medical physics, specifically regarding radiological risk communication and safety.

Key Research Areas

- **Gamma-MRI:** Dr. Pallada is a key figure in the Gamma-MRI project, a "radically innovative" biomedical imaging technology that combines the high spatial resolution of MRI with the extreme sensitivity of nuclear medicine.
- **β -NMR Spectroscopy:** She has led the development of advanced setups at CERN-ISOLDE to study biological systems, such as magnesium (Mg^{2+}) complexes in liquid samples.
- **Radon Mitigation:** She manages research projects dedicated to developing novel techniques for radon mitigation and dosimetry in indoor environments.
- **Environmental Bioremediation:** Her work includes studying green microalgae (such as *Tetraselmis chui*) as agents for the bioremediation of **Strontium-90** contamination.