PERSONAL INFORMATION

Domenico Aquino

Fondazione IRCCS Istituto Neurologico Carlo Besta
Neuroradiology

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Gender: M | *Nationality:* Italian

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WORK EXPERIENCE

01/01/2020-Today	**Italian NHS Researcher**

Fondazione IRCCS Istituto Neurologico Carlo Besta, Milan (ITALY)
Neuroradiology

- Use of advanced MR imaging (MRI) techniques for the diagnosis, follow-up and therapy evaluation in the main pathologies of the central nervous system (brain tumors, neurodegenerative, neuro-muscular diseases)

01/01/2005-31/12/2005	**Contract Researcher**

Fondazione IRCCS Istituto Neurologico Carlo Besta, Milan (ITALY)
Neuroradiology

- Use of advanced MR imaging (MRI) techniques for the diagnosis, follow-up and therapy evaluation in the main pathologies of the central nervous system (brain gliomas, neurodegenerative, neuro-muscular diseases)

EDUCATION AND TRAINING

2021   **Good Clinical Practice (Investigator Version), version 2.0**

Online course

- Good Clinical Practice is an international standard of ethics and scientific quality for designing, conducting, recording and reporting clinical trials involving human subjects.

2010   **Pulse Programming Course (Gyrotools - Zurich)**

Gyrotools – Zurich (Switzerland)

- Magnetic Resonance Philips pulse sequences programming

1996-2003   **Master's degree in Biomedical Engineering**

Politecnico di Milano

- Processing of biomedical signals and images with particular reference to images of Positron Emission Tomography (PET) and Magnetic Resonance Imaging (MRI). Programming in C++, Matlab and other languages. Knowledge of the main hospital diagnostic devices.

ACHIEVEMENTS AND AWARD

Grants   Institutional Principal Investigator of the Ministerial Reasearch Grant: "Multimodal nanotracking for exosome-based therapy in DMD" (PI. Torrente Yvan, Policlinico of Milan)

Patents   Co-owner of the patent: "SHE-BRAIN: wearable stereotactic device for low-intensity focused ultrasound neuromodulation" - 2022

TEACHING ACTIVITY

2006 - Today
- Speaker in many national and international conferences/courses.
- Assistant supervisor in many engineering, physics and medical theses

TECHNICAL SKILLS

- Processing of Biomedical Images, with particular regard to advanced MR techniques.
- I developed numerous scripts and programs in the MATLAB environment, Borland C/C++, Borland Delphi for the storage of DICOM files for the elaboration of MR images and signals.
- MR clinical protocols implementation and optimization.
- Very good knowledge of all the major applications for visualization and elaboration of medical images.
- Excellent ability to learn new applications and software development.