

## Cutting-edge neuroscience research applying optics to brain tumors

Candidates with a PhD in Neuroscience and a background in optics are encouraged to apply for a unique project opportunity within a multidisciplinary European Consortium (NanoBRIGHT, FET-OPEN) of neuroscientists, physicists and cancer researchers that will be initiated during 2019.

The main goal of the project is to explore, for the first time, the application of emerging optic technologies to study the impact of tumors (primary and secondary) on brain homeostasis. The research to be performed has the specific goals of implementing novel methods to better diagnose brain tumors using low-invasive approaches, learning about the how the presence of the tumor influences the brain as well as improving drug delivery for this unmet clinical need.

Two funded postdoctoral positions (3 years) are available to join our team in Madrid.

The Brain Metastasis Group ([www.valientelab.com](http://www.valientelab.com)) is an EMBO YIP laboratory part of the Molecular Oncology Programme at CNIO ([www.cnio.es](http://www.cnio.es)). The lab studies the biology of secondary brain tumors using mouse models and human samples. Given our mixed and unique background, we like to apply techniques widely used in neuroscience to cancer biology. This unique interdisciplinary approach allowed us to recently discover key aspects of the brain metastasis microenvironment with important clinical implications (Priego et al. Nat Med. 2018).

Both positions require experienced researchers with a background in neuroscience and optics with an excellent track record (main author publications during the last 2 years published in high impact journals/ leading journals in the respective field).

Candidates interested must submit a single pdf document to [mvaliente@cnio.es](mailto:mvaliente@cnio.es) containing:

- cover letter (max 1 page)
- short CV (max 2 pages)
- 3 references (no letters are needed at this point).

**→Those candidates not following this application format will not be considered.**

The position will remain open until positions are filled. Selected candidates are expected to join the laboratory between June 2019-March 2020.

CNIO is one of the top institutions for cancer research in Europe, with access to a broad variety of core facilities and an excellent scientific environment. Its international working environment promotes equal opportunities for men and women, regardless of their nationality, age, race, religion and beliefs, disability and sexual orientation, under criteria of scientific excellence.