



POSTDOCTORAL FELLOW IN CANCER BIOLOGY: CLONAL EVOLUTION

A main problem in the treatment of advanced cancers is the uncertainty at which we predict how individual patients will respond to DNA-damaging agents, especially on the long run. Despite a wealth of genomic information, “more-is-better” and “one-size-fits-all” remain the principles according to which DNA-damaging agents are administered. We seek applications from individuals with a PhD in Cancer Biology, Genetics, Pharmacology or Molecular Biology, to test the potential of the very long-term legacy that DNA-damage entails on a cell – genomic instability – as new biomarker of DNA-damage response. The position is fully funded through an NCI R00 awarded to Dr. Andor and an R35 NCI Outstanding Investigator Award awarded to Dr. Flores. The postdoctoral researcher will be co-mentored by Drs. Andor and Flores.

This person will be part of a multi-disciplinary team in the Departments of Integrated Mathematical Oncology (IMO) and Molecular Oncology, where wet- and dry-lab components of in-vitro and in-vivo experiments are seamlessly integrated to meet the project’s central challenge: quantifying the growth rates of coexisting tumor clones. Successful candidate will expose cell lines and mouse models of cancer to DNA damaging agents and quantify drug-induced changes in their clonal composition from different perspectives, including their transcriptome and histopathology. Successful candidate has extensive experience working in both, in-vitro and in-vivo systems, in particular with GEMMs. Ideal candidate will communicate with computer scientists and mathematicians and has interest in learning basics of programming to trace **long-term** trends in the clonal evolution of cell populations.

This position brings a unique opportunity to be co-mentored by multiple investigators at the forefront of this multidisciplinary field, in an environment where experimental and computational domains interact like clockwork. It includes funded travel to attend research conferences.

Required Application Materials:

- C.V.
- Contact information for 3 professional references
- A brief personal statement describing your perspective on the co-evolution of tumor cells and their therapy.

How to Apply: Please send your CV and cover letter to noemi.andor@moffitt.org and Elsa.Flores@moffitt.org.

