



2-YEAR POSTDOCTORAL POSITION

(Dec 2010 – Dec 2012)

Development of fluorescent biosensors for non-invasive optical imaging of cyclin-dependent kinases in animal tumour models

A two-year post-doc position funded by the INCA (Institut National du Cancer) is available from December 2010 in the lab of Dr. May C. Morris (CNRS, Montpellier, France).

One of the major hallmarks of cancer is the deregulation of mechanisms controlling cell proliferation, associated with genetic amplification, overexpression or hyperactivation of several cell cycle kinases, which constitute attractive pharmacological targets for the development of therapeutic drugs. However there is overall lack of strategies for detection of these intracellular cancer biomarkers, associated with a lack of reliable and sensitive tools for their direct visualization in situ and in vivo, thereby limiting clinical diagnostics and tailored therapeutic intervention. Our team is concerned with the development of bioprobes and inhibitors for probing and targeting protein kinases and phosphatases involved in coordination of cell cycle progression, and has recently developed an original biosensor that enables quantification of relative abundance of CDK/cyclin complexes in living cells. This project will involve the development of a new generation of fluorescent biosensors and their application in animal tumour models. In vivo these biosensors will be applied to undermine molecular alterations associated with deregulated cell cycle progression, thereby providing a diagnostic technology for subsequent therapeutic intervention. The candidate should have a good background in fluorescence technologies for studying protein/protein interactions in vitro and /or the dynamics of macromolecular assemblies in cellulo. Experience in handling animal models will be an asset.

Candidates should address their CV, motivation letter and reference letters to may.morris@crbm.cnrs.fr before October 15th 2010.

Further Information at Website : <http://www.crbm.cnrs.fr/spip.php?rubrique93>

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