**CNRS UMR 7213** 

Title:

Directeur : Yves MELY

	naman ghoshachema.
Team :	Intégrine et Cancer, LBP - UMR CNRS 7213, Université de Strasbourg
Fellowship :	PhD fellowship from Université de Strasbourg
Duration:	2012-Octobre/ 2015-Septembre
PhD Project :	Glioblastoma (GBM) are the most aggressive brain tumors and remain desperately resistant to chemotherapy. Despite the frequent over-expression or activation of the tyrosine kinase EGF receptor, targeted therapies failed to improve patient overall survival.
Université de Strasbourg Faculté de Pharmacie 74 route du Rhin	Our team has recently showed that $\alpha 5\beta 1$ integrin, a cell adhesion receptor that is over- expressed in the most advanced glioma, is a promising new therapeutics target. Integrins are known to crosstalk with tyrosine kinase receptors. Our project aims to examine
BP 60024 F-67401 ILLKIRCH CEDEX France	whether $\alpha 5\beta 1$ plays an important function in the EGFR oncogenic activity and if its over- expression is involved in GBM resistance to anti-EGFR drugs. The PhD student will be in
Tél : (33) 03 68 85 41 92 Fax : (33) 03 68 85 43 13	charge of the study of the crosstalk signaling pathway between these two cell surface receptors in GBM cell lines (including recycling experiments) and of the setup of new imaging tools aiming to quantify the formation $\alpha 5\beta 1/EGFR$ complex at cellular level, in
maxime.lehmann@unistra.fr	cultured cells and in tumor sections. An important task of the project will be to determine if $\alpha 5\beta 1$ antagonists developed in our team can sensitize $\alpha 5\beta 1$ over-expressing glioma to
http://www-lbp.u-strasbg.fr	anti-EGFR chemotherapeutic drugs, both in cultured cell (signaling, cell proliferation and survival, migration and invasion) and in animal models.
Publications:	From the team : Janouskova, Cancer Res 2012 (epub) ; Cosset, Int. J. Cancer, 2012, 131 :601-11, Markintova, Int. J Cancer, 2010 127 :1240-8 From the PhD supervisor : Faure, J. Cell. Sci, 2012 (epub), Taboubi, Mol Biol Cell, 2010 21:946-55 ; Sadok, Mol Cell Biol, 2009 29:3915-28
Profil :	Highly dynamic and motivated candidate with strong background in cell biology, molecular biology or physiopathology.
Contact:	Send a complete CV and a referent coordinate to:

Implication of  $\alpha 5\beta 1$  integrin in EGFR oncogenic function in

**Prof. Maxime Lehmann** maxime.lehmann@unistra.fr

human glioblastoma.



