

## Master Vie et Santé – Spécialité Physiopathologie : De la Molécule à l'Homme

### Appel d'offre 2015-2016 Stages de Master 2

<p>Unité : INSERM U1109</p> <p>Responsable : S. Bahram</p> <p>Equipe : MN3T</p> <p>Lien : University Strasbourg</p>	<p>Thème</p> <p>Analysis of the role of tenascin-C on immune modulation in cancer</p>	<p>Court résumé du projet (80-200 mots)</p> <p>The extracellular matrix molecule tenascin-C (TNC) is a highly expressed component of the malignant tumor microenvironment, that promotes multiple events on the road to cancer, as we had recently shown in a stochastic immune competent tumor model with no and high TNC expression. TNC enhanced survival, proliferation, invasion, angiogenesis and lung metastasis by a mechanism that involved Wnt signaling activation (Saupe et al., 2013, Cell Reports 5). We observed in two other immune competent tumor models (breast and tongue cancer) with spontaneous tumorigenesis with no and high levels of TNC, that TNC corrupts the innate and adaptive immune responses. We like to understand the underlying cellular and molecular mechanisms to interfere with these TNC functions in cancer. In particular, we want to know whether TNC impacts on immune cells through its anti-adhesive capacity and/or through its growth factor binding activity.</p>
<p>Responsable du stage : Gertraud Orend</p> <p>Adresse : 3 av. Molière, Hautepierre</p> <p>Tel : (0)3 88 27 53 55</p> <p>Email : orend@unistra.fr</p>	<p>Titre</p> <p>Analysis of the role of tenascin-C on immune modulation in cancer</p>	<p>Technologies acquises à l'issue du stage de M2 :</p> <p>Preparation of tumor tissue and analysis by immunofluorescence</p> <p>In vitro assays with immune cells (macrophages, T-cells) on cell derived matrices with low and high levels of TNC</p> <p>Analysis of survival, proliferation, migration and differentiation by MTS assay, Boyden chamber assay, FACS</p> <hr/> <p>Candidat(e) recruté(e) dans la(les) spécialité(s) : physiopathologie</p>