



## Fiche proposition de stage - *Internship offers*

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**Offre pour / Offer for** (you can make offers for both level, if the subjects are different, please use a new form)

**Master 2**

**Parcours concerné(s) : Any among the Master "Biologie Santé"**

<b>Intitulé du stage</b> <i>Title</i>	The importance of mRNA subcellular localization and local translation in cell adhesion.
<b>Laboratoire d'accueil</b> <i>Host laboratory</i>	CRBM CNRS UMR 5237
<b>Nom du responsable</b> <i>Name of the PI</i>	Anne BLANGY
<b>Nom d'encadrant</b> <i>Supervisor</i>	Anne BLANGY & Guillaume BOMPARD
<b>Description</b> (3 phrases) <i>Description</i> (3 sentences)	<p>Osteoclasts hyperactivity causes osteoporosis and is also associated with bone metastases, causing severe pain and fractures.</p> <p>We study the molecular mechanisms controlling the assembly of the actin ring, the osteoclast adhesion structure on bone necessary for bone resorption; our recent transcriptomic data identified candidate mRNAs translated locally at osteoclast actin ring.</p> <p>The aim this internship will be in particular to build and use molecular tools to follow the local translation of mRNAs in osteoclasts; techniques used are cell culture, smFISH, cutting edge fluorescence microscopy...</p>
<b>Durée prévue (2 à 6 mois)</b> <i>Duration</i> (2 to 6 months)	Up to 6 months
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