 2023-2024

Fiche proposition de stage - *Internship offers*

**Parcours : (Cocher une ou plusieurs cases - You can tick one or several boxes)**

* Chimie médicinale translationnelle
* Génétique, Epigénétique, Contrôle du déterminisme cellulaire
* Neurosciences
* Médecine expérimentale et régénératrice
* Microbiologie Immunologie
* Biophysique, structures et systèmes
* Cancer Biology
* Gestion et évaluation des essais thérapeutiques
* A déterminer - Undetermined

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

* **Master 1**
* **Master 2**

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| **Intitulé du stage**  *Title* | **Deregulated replication and cancer: Role of RB tumour suppressor inactivation by viral oncoproteins** |
| **Laboratoire d’accueil**  *Host laboratory* | **IGMM - DNA Replication, Genome Instability & Cell Identity** |
| **Nom du responsable**  *Name of the PI* | **Etienne Schwob** |
| **Nom d'encadrant**  *Supervisor* | **Vjekoslav Dulic** |
| **Description** (3 phrases)  *Description (3 sentences)* | High-risk” human papillomaviruses (HPV) are responsible for 5% of all human cancers, including cervical carcinomas. The oncoprotein HPV-16-E7, which inactivates the RB (retinoblastoma) tumor suppressor family, key cell cycle regulators, has recently been identified as the main contributor to carcinogenesis (Mirabello et al., Cell 2017). We use an inducible RB inactivation system by viral oncoproteins in human non-transformed cells to identify key mechanisms responsible for deregulated DNA replication leading to chromosome instability at the early and decisive stages of tumor initiation. |
| **Durée prevue (2 à 6 mois)**  Duration (2 to 6 months)  (En France, les stages de plus de 39 jours doivent être gratifiés) | 5-6 months |
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