

Position description

1. Position identification

Title of post : Post-doctoral position

Type of contract : Fixed-term contract

Category (A,B or C) : A

Contract/project period : 2 years

Expected date of employment : Starting in March or April 2024

Proportion of work : 100%

Workplace : Pharmacy department, University of Strasbourg

Desired level of education : PhD thesis

Experience required :

Contact(s) for information on the position (identity, position, e-mail address, telephone) :

Laurence Choulier, CNRS researcher, laurence.choulier@unistra.fr

Date of publication : 19/01/2024

Closing date for the receipt of applications : 19/02/2024

2. Research project or operation

A post-doctoral fellowship is available in the Laboratory of Bioimaging and Pathologies at the CNRS/Université de Strasbourg, funded for 2 years (starting date: March/April 2024) by the French National Cancer Institute (INCa).

The tumour cell environment influences tumour establishment, progression and response to treatment. Our project focuses on the use of RNA interference to deplete the expression of an oncogene in hepatocellular carcinoma (HCC) cells. We aim at optimizing siRNA delivery and bioavailability using targeting strategies based on nucleic acid aptamers, and to validate their therapeutic potential in tumoroids and murine models.

3. Activities

➤ **Description of the research activities :**

The post-doctoral fellow will be in charge of (i) the synthesis and characterization of different vectors (some of them based on liposomes), (ii) cell assays and (iii) bioimaging, aiming to improve their intracellular delivery using pharmacological and photophysical approaches.

➤ **Related activities :**

Seminars and working groups; eventually supervision of Master students

4. Skills

➤ **Qualifications/knowledge :**

Candidates must have obtained their doctorate within the last 3 years, ideally at the interface between biology and chemistry.

➤ **Operational skills/expertise :**

The post-doc should have an experience in chemistry and (/or) cell biology. A background in liposome formulation, bioimaging and/or nucleic acid delivery would be highly appreciated.

Candidates must have obtained their doctorate within the last 3 years.

Candidates willing to apply for a permanent researcher position are strongly encouraged to apply.

➤ **Personal qualities :**

Relational skills required to work in a team and willingness to participate to the activities of the research teams and units.

5. Environment and context of work

➤ **Presentation of the laboratories/units :**

The post-doctoral fellow will be working in a multidisciplinary environment, with biologists, chemists, pharmacologists, immunologists from different units of the Pharmacy department of the University of Strasbourg, located in Illkirch, in very close partnership with the Team Targeting signalling networks and microenvironment in cancer (Cancer Research Center of Marseille).

➤ **Hierarchical relationship :**

The postdoc will be supervised by Laurence Choulier.

➤ **Special conditions of practice (notice attached):**

To apply, please send your CV, cover letter and diploma to :

Dr. Laurence Choulier, Laurence.choulier@unistra.fr