



## Postdoctoral Scholar in Molecular Biology (Low Dose Radiation Effects)

### Position Description:

A postdoctoral position is available in the Experimental Radiotoxicology and Radiobiology Laboratory (LRTOX) at the Institute of Radioprotection and Nuclear Safety (IRSN), near Paris, France. As a part of its missions, the IRSN seeks to improve the understanding of low dose radiation effects to inform radiological risks assessment.

The understanding of the chain of events leading from low dose radiation (LDR) exposure to observable outcomes and pathologies requires the integration of data at multiple levels, starting from molecular and cellular mechanisms and leading to physiological and epidemiological studies. However, although a number of molecular mechanisms triggered by genotoxic stress and LDR have been demonstrated, the precise description of early molecular events and their interactions in experimental models relevant to radioprotection is still incomplete. The goals of this project are to study the interactions between transcriptional and translational control after LDR in a simple *in vitro* model, and then to measure the potential implications of those regulations for DNA repair, adaptive mechanisms and genotoxicity.

### Responsibilities:

The successful candidate will join a multidisciplinary team in the laboratory of Dr Dmitry Klovov and will be directly supervised by Dr. Guillaume Varès. In this fully-funded project, he/she will use various molecular biology tools and sequencing techniques (such as: western blot, RIP assays, RNA-Seq, Ribo-Seq, reporter constructs) to develop an integrated *in vitro* model of early responses to low dose ionizing radiation.

### Qualifications:

Candidates should hold a PhD and /or have postdoctoral experience in an area related to the project (biochemistry, molecular biology, or a related life sciences field). Candidates should be self-motivated and have a strong background and hands-on experience in molecular biology. Demonstrated experience in next-generation sequencing, long-read sequencing, bioinformatics tools, Ribo-Seq, would be an asset. Strong interpersonal and organization skills are essential. English and French are the working languages in the laboratory.

### Application instructions:



To apply, please visit the following page (or scan the QR code):

<https://www.linkedin.com/jobs/view/2526096246/>

We will be asking every applicant to submit a CV, two references with contact information and a cover letter outlining research interests and relevant work experience. The position is open until filled.

### Terms of employment:

This is a non-renewable 18 months position. **Starting date is as soon as possible**. IRSN is an equal opportunity employer.

### Inquiries:

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