

Post-doctoral position in RNA Molecular Biology, Séraphin Lab at the IGBMC (Strasbourg, France)

Overview: The Séraphin team working on protein complexes involved in RNA decay is hiring a post-doc (24 months with possibility of extension) to work on the **Control of deadenylation and translation by the CCR4-NOT complex**

Project

The importance of mRNA decay in regulating and finely tuning gene expression is now well established. The CCR4-NOT complex is a multi-subunit assembly, present in all eukaryotes, that plays a primordial role in this control. Indeed, this complex works as the major deadenylase that initiates mRNA decay by shortening their poly(A) tails. Further, the CCR4-NOT complex has been shown to link translation efficiency to mRNA decay.

We have recently identified new protein partners of the human CCR4-NOT complex. Interestingly, inactivation of one of the corresponding genes in mice leads to a severe phenotype. **Based on our initial observations, the successful candidate will elucidate the functions of the CCR4-NOT complex in relation to its interaction with this new partner.** The molecular function of this factor will be investigated using cutting-edge technologies including transcriptome and poly(A)-tail-seq analyses, CRISPR-Cas9 inactivation in cell lines, proteomic and imaging and benefit from parallel study of its impact on mouse development at the institute.

Profile

We are looking for a highly motivated and experienced candidate with strong expertise in **molecular biology**. Additional experience in **transcriptomics and genome-wide data analyses** would be a plus. Ability to work independently within a team environment, computer literacy and good communication skills are required. Applications are invited for 2 years with possibilities of extensions, starting in the coming weeks.

About us

The applicant will benefit from a highly collaborative and international environment at IGBMC (>700 researchers, 4 departments, 44 teams). The Séraphin team is a leader in the field of eukaryotic RNA decay, RNA processing and protein complex analyses using mammalian cells and yeast as model systems. IGBMC provides access to state-of-the-art platforms and technical support including imaging, proteomic, high throughput sequencing, cell culture, bioinformatics, and mouse facilities. The project will benefit from technical support and develop in the framework of national and international collaborations. IGBMC is located in the periphery of Strasbourg providing a scientifically and culturally rich and unique environment.

Your application

Please send your application including a statement describing research experience and expertise as well as future research interests, a curriculum vitae with publication list, date of

availability, and at least two contacts for references (including phone number and email) to “[mauxion\(at\)igbmc.fr](mailto:mauxion(at)igbmc.fr)”

Please, send your application before June 30, 2023, but note that applications will be processed continuously as they are received.

Benefits

Salary based on experience following Institute guidelines

Languages

English: good level

French speaking is NOT a requirement

Requirements

PhD in Molecular Biology