

## Postdoctoral fellowship in structural biology of protein-RNA complexes

Location:	Grenoble, France
Staff Category:	Postdoctoral Fellow
Contract Duration:	24 months
Grading:	Postdoc/Stipend
Closing Date:	31 March 19
Reference Number:	GR00133

A postdoctoral position in structural biology is available in the laboratory of Dr. Stephen Cusack at the EMBL Grenoble, France. The Cusack group uses X-ray crystallography and cryo electron-microscopy to study the structural biology of protein-RNA complexes involved in RNA virus replication, innate immunity and cellular RNA metabolism. Group website: <https://www.embl.fr/research/unit/cusack/index.html>

### Your role

We are looking for a highly motivated and ambitious individual to progress our understanding of the mechanism of transcription by influenza virus RNA-dependent RNA polymerase. The work is in the frame of the ANR-funded FluTranscript project that brings together the complementary expertise of the groups of Stephen Cusack (EMBL Grenoble, project coordinator) and Nadia Naffakh (Institut Pasteur) in structural biology and molecular virology, respectively. The project follows on from a recent joint publication (Structural basis of an essential interaction between influenza polymerase and Pol II CTD. Lukarska et al, Nature 2017) and aims to reconstitute and determine the structure of functional transcription complexes. A secondary goal is to use the acquired structural information to develop new approaches to anti-influenza drug development.

### You have

The successful candidate should have a PhD in Molecular Biology or related field and a strong background and interest in biochemistry and structural biology. We are looking for a creative and ambitious person with good communication skills and keen to work on a challenging project.

### You might also have

Experience in insect cell expression systems, reconstitution of protein-RNA complexes, X-ray crystallography or cryo-electron microscopy would be particularly beneficial.

### Why join us

EMBL is one of the world's leading research organizations in the life sciences. The Headquarters Laboratory is located in Heidelberg, with additional sites in Barcelona, Grenoble, Hamburg, Hinxton, and Rome. EMBL Grenoble has excellent access to state-of-the-art structural biology technologies with the in house EM facility being equipped with a T12 microscope and 200kV Glacios/Falcon III. Additionally, we have access to the Titan Krios at the adjacent ESRF as well as those in EMBL Heidelberg. Other facilities on the Grenoble Campus include ESRF synchrotron X-ray beamlines, neutron scattering at the ILL, high-field NMR at the IBS as well as high-throughput crystallization platform, mammalian and insect cell facilities, biophysical platform and confocal microscopy. The project is in collaboration with the Pasteur Institute, a world-famous biomedical laboratory in the heart of Paris.

### What else do I need to know

Please apply online through [www.embl.org/jobs](http://www.embl.org/jobs)

For any inquiries please contact Stephen Cusack: [cusack@embl.fr](mailto:cusack@embl.fr)

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