



**OXANA KLEMENTIEVA**

*From Sweden to France*



Project: **Image and characterization of molecular structures of amyloid proteins**

Research topic: **Medecine & Health**

Swedish Institution: **Lund University**

French Institution: **Soleil Synchrotron, SMIS beamline**

Dates of mobility: **21/07/2020 to 26/07/2020**

Program: **SFVE-A (ex FRÖ)**



## PRESENTATION

[Oxana Klementieva](#) is an Assistant Professor in Neurobiology in the [Medical Microspectroscopy](#) research group at [Lund University](#). Her research focused on developing, testing, and optimizing a novel approach regarding images molecular structures of specific proteins directly in neurons (biofunctionalized nanoscale spectroscopy – AmyloidNanoSpec).

## ACTIVITIES IN FRANCE

The aim of Oxana Klementieva's visit was to strengthen the existing collaborations between researchers from Lund University (Sweden) and [Soleil Synchrotron](#) (France). Their collaborations were focusing on building a nanospectroscopy platform at the Medical Faculty at Lund University, but also in terms of research projects. Indeed, Oxana Klementieva's research objectives focused on image and the characterization of molecular structures of amyloid proteins directly in the neurons, at the subcellular level. As she was developing a biofunctionalized nano spectroscopic approach, she collaborated with [Dr. Ferenc Borondics](#) from Soleil Synchrotron and had the opportunity to work with their [SMIS beamline](#), a large scale synchrotron facility. Thus, her visit was not only a good opportunity for research but also the occasion to test a new equipment and to learn which modality might suit best for biomedical applications.