



**SVETLANA ELISEEVA**

*From France to Sweden*



Project: **Molecular Biophysics**

Research topic: **Biology**

Swedish Institution: **Stockholm University**

French Institution: **CNRS-Orléans**

Dates of mobility: **28/05/2019 to 01/06/2019**

Program: **SFVE-A (ex TOR)**



## PRESENTATION

[Svetlana Eliseeva](#) is Associate researcher at the biomolecular physics centre at the [CNRS](#) in Orléans. She obtained her PhD degree 2006 in Inorganic Chemistry at the [Lomonosov Moscow State University](#). The general aim of her research is the creation, characterization and use of near-infrared probes on lanthanide ions for optical imaging of cells and small animals. The ultimate goal of this work is to provide to biologists and medical doctors the innovative tools for future research and diagnostic.

## ACTIVITIES IN SWEDEN

Svetlana Eliseeva met with [Anja-Verena Mudring](#), Head of Physicals Materials Chemistry at [Stockholm University](#) and [Gerd Meyer](#), affiliate professor at [KTH](#) in Stockholm. During the meeting with Mudring's group, the main research topic was the use of ionic fluids for the synthesis of monodispersed lanthanide-based nanoparticles with controlled size and photophysical properties biocompatible and suitable for easy functionalisation. She also had the opportunity to visit the laboratory and the available scientific equipment such as the thermogravimetry installation that is adapted for the synthesis of nanosized materials. Moreover, a potential application for an Innovative Training Network (ITN) program has been discussed.

Svetlana Eliseeva participated also in the [Terrare-Rarae conference](#) that gathered around 80 people working in the fields of chemistry and physics of rare earths. She held a presentation entitled "Functional properties and applications of Lanthanide-based metallocrowns emitting in the Near-Infrared Range". She met there [Vadim Kessler](#) and [Gulaim Seisenbaeva](#) from the department of Molecular Sciences at the [Swedish University of Agricultural Sciences](#) working on the creation of new organic and hybrid organic-inorganic materials for environmental and biomedical applications.