CELSA
Central Europe Leuven Strategic Alliance

Project: Discovery of CCR7 small molecule inhibitors by virtual screening andhit-to-lead optimization

Project duration: 2017 - 2020

Coordinator: Leuven Catholic University (KU), Virology and Chemotherapy, (Prof. Dr. Dominique Schols)
Project manager at UL FFA: Prof. Dr. Stanislav Gobec

Project summary:
Protein G coupled receptors are well-validated targets targeted by one third of all medicinal products on the market. CCR7 is an example of such a receptor, although it is poorly studied despite being involved in many human diseases (e.g. cancer, inflammatory and immunodeficiency diseases). In the project, the discovery of selective ligand for the CCR7 receptor will be attempted through the use of the chemical library, virtual screening and optimization of the already known non-selective ligands. Modulation of the receptor action will be confirmed by various *in vitro* biological tests.

Web page: CELSA.