



FRANCOIS BONNETBLANC

From France to Sweden



Project: **Oncological Neurosurgery**

Research topic: **Medecine & Health**

Swedish Institution: **Karolinska Institutet**

French Institution: **Université de Montpellier**

Dates of mobility: **11/06/2019 to 14/06/2019**

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



PRESENTATION

[François Bonnetblanc](#) is an Associate Professor in Neurosciences working at the Laboratory of Informatic, Robotic and Micro- electronic of Montpellier ([LIRMM](#)). Moreover, he works at the [INSERM U1093](#) in the research unit for Cognition, Action and Sensorimotor Plasticity at the [University of Burgundy](#) in Dijon. He is interested in motor control and relearning, neuroplasticity/functional rehabilitation, and awake surgery as well as in technologies of information and communication applied to health.

ACTIVITIES IN SWEDEN

François Bonnetblanc had the opportunity to meet some doctors including [Margret Jensdottir](#), a neurosurgeon, and [Jonas Persson](#), the head of the neurophysiology group.

The aim of the visit was to identify some complementarity between the teams in Stockholm and in Montpellier in the field of oncological neurosurgery. The French group is indeed at the forefront of awake surgery for slow brain tumours whereas the Stockholm group has very large patient cohorts for more aggressive tumours that are operated awake. They use electrophysiology for surgical planning in an extremely advanced way. The collaboration has thus enabled to develop in Montpellier in-vivo measurements of electrophysiology to complete the functional mapping traditionally carried out in awake surgery.

Potential projects have been discussed afterwards, including a clinical study on the measurement and comparison of cognitive fatigue and cognitive flexibility between different patients with different types of tumours and another study on the application of passive or evoked electrophysiological measurements.