



## Module 1

### Brief description

Diseases of the brain are common, serious and cover diseases, such as stroke and Dementia as well as autoimmunity disease and inflammation of the brain. Especially in an aging population such as Saxony-Anhalt brain diseases occur more frequently. An important feature is that they are all associated with inflammation responses. Therefore, understanding of the regulation and function of these disease-specific neuroinflammatory processes is the key to reach a better prevention and therapy of each disease in the brain.

Neuroinflammation can cause or impair a brain disease, e.g. the autoimmune disease multiple sclerosis and in later stages of the Alzheimer neurodegeneration. Otherwise, neuroinflammation can prevent the brain from damages, e.g. during infections and stroke. Interestingly, neuroinflammatory reactions are disease-specific and show an intensive alternating regulation of brain cells (astrocytes, neurons, microglia) with cells of the immune system. Particularly, this largely limited characterized interaction of brain cells with immune cells during diseases of the brain will be analyzed in module 1.

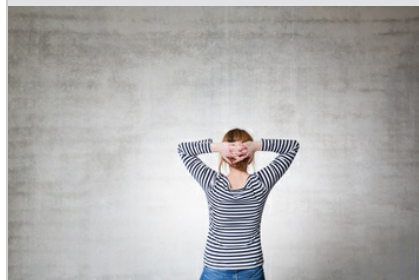
### Principal investigators



A total of 15 PIs are involved in this module...

### Projects of Module

1



Number of scholarships for PhD students: 5

## Fellows



### From left to right:

Rituparna Bhattacharjee, Carla Cangalaya Lira, Timothy French, Sarah Schreier, Ayse Malci

## Institutions involved



## News

3.  
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