

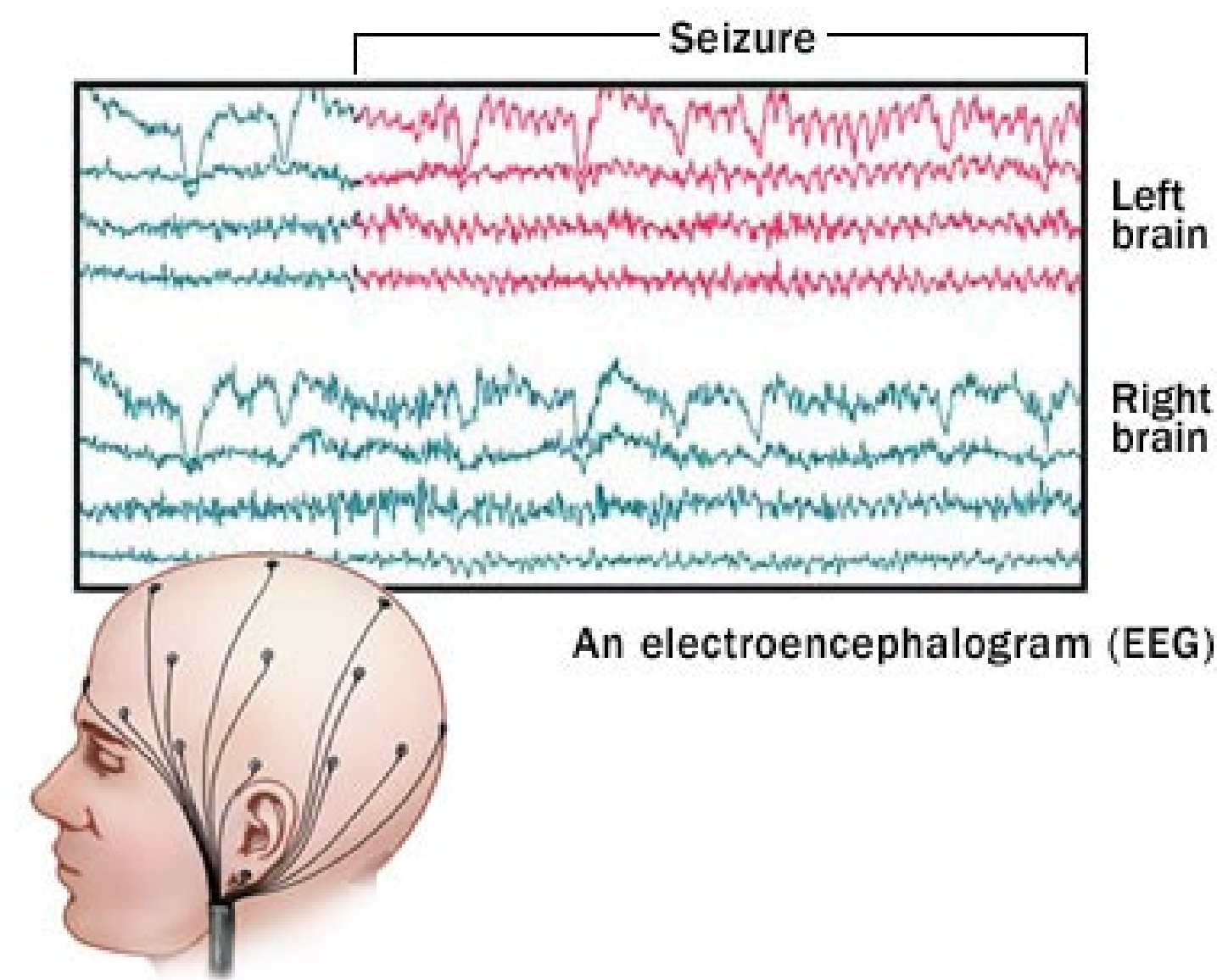
The Weckhuysen group is a team with members of diverse scientific backgrounds (clinicians, biomedical scientists, molecular biologists, ...)

Our aim is to combine our expertise and translate data from the clinic, genetic studies and functional work into better treatment for patients with epileptic disorders.

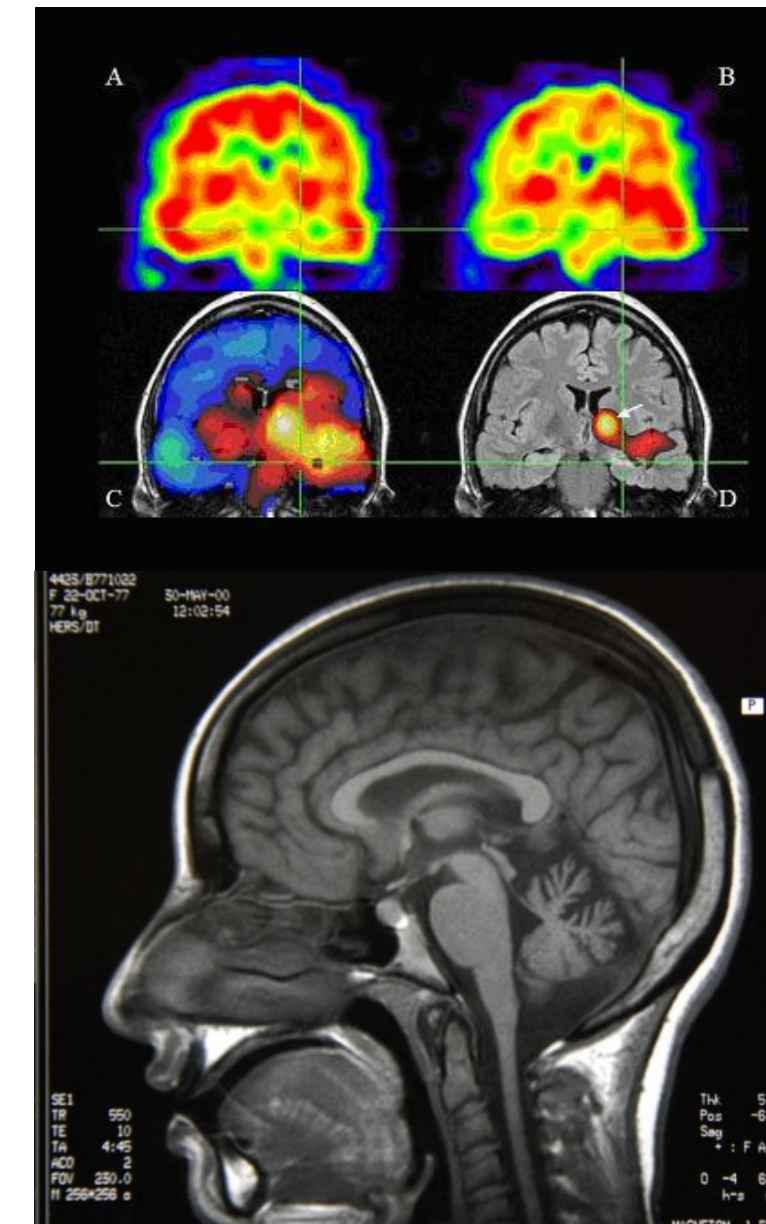
## Clinical



Phenotyping



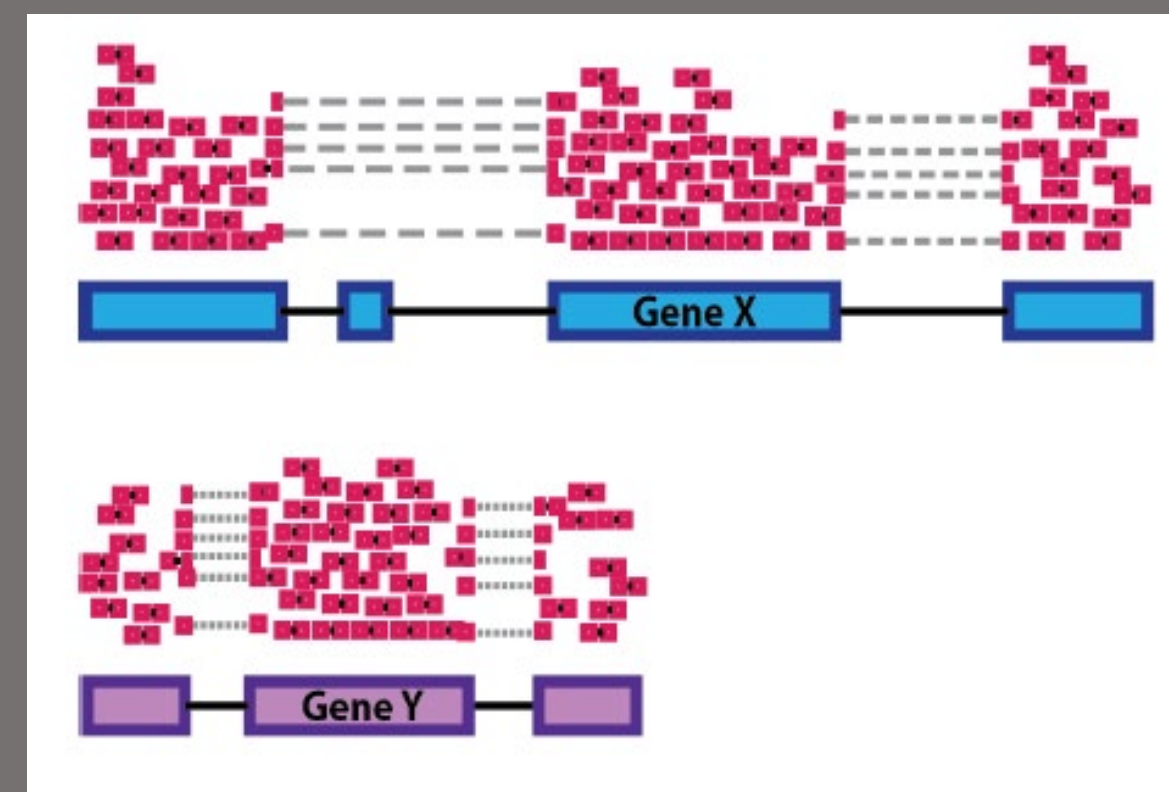
Electrophysiology



Imaging

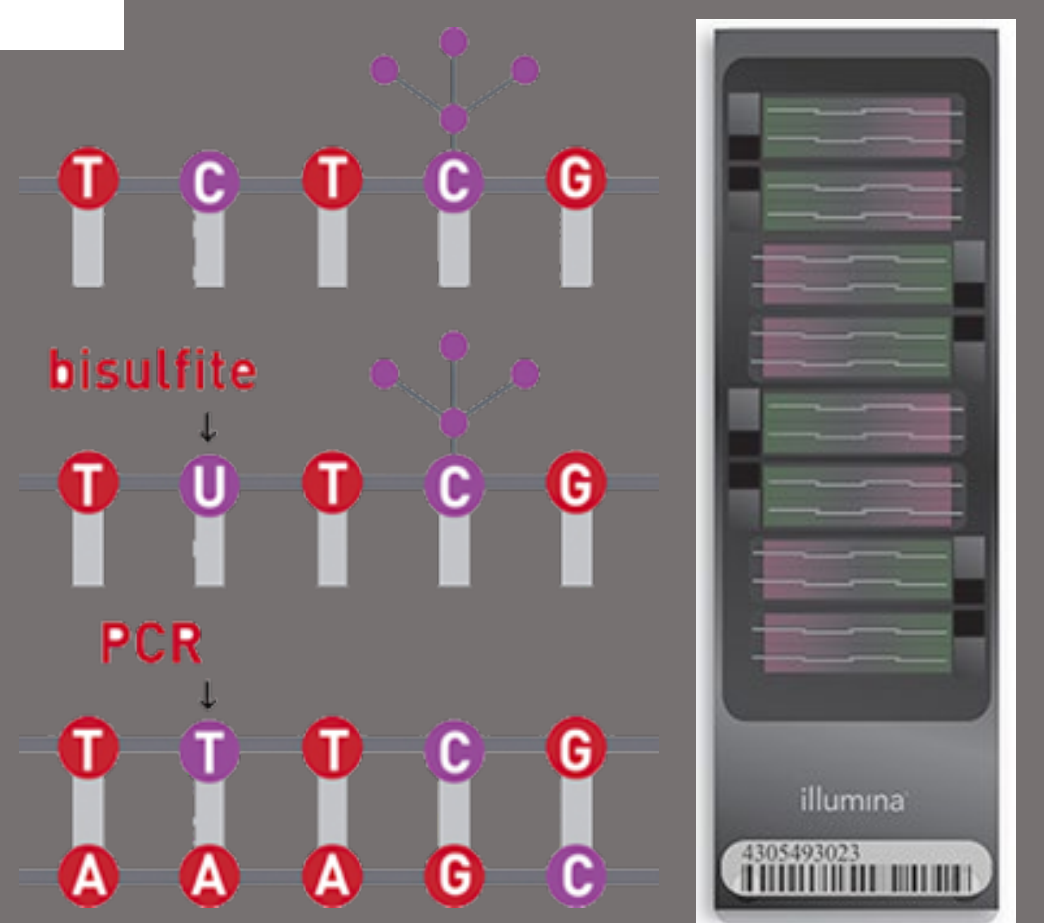
## Genetics

### Genomics



### Transcriptomics

### Methylomics

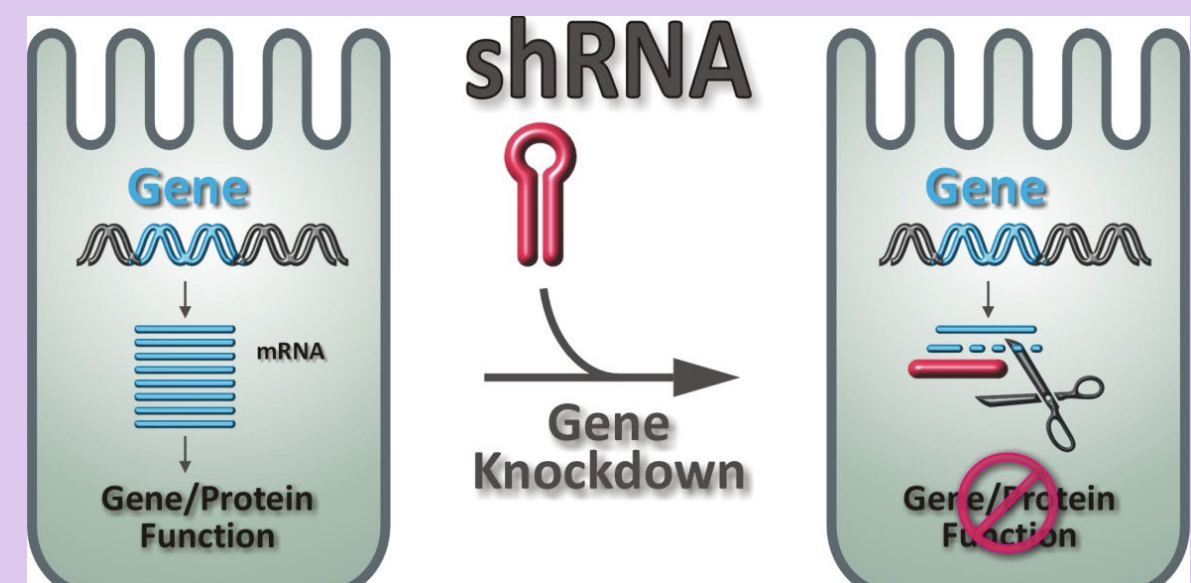


### Bioinformatics

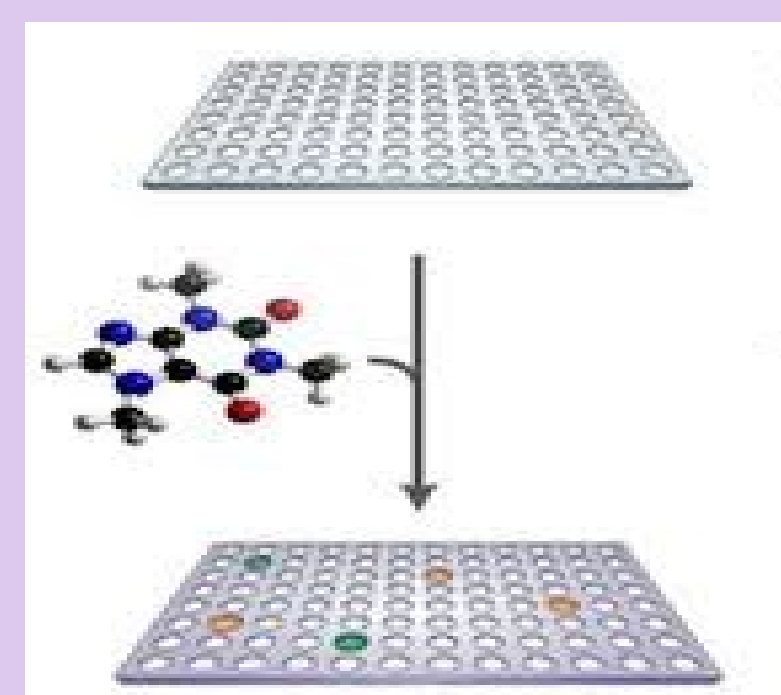


## Drug screening

### Target-based screening



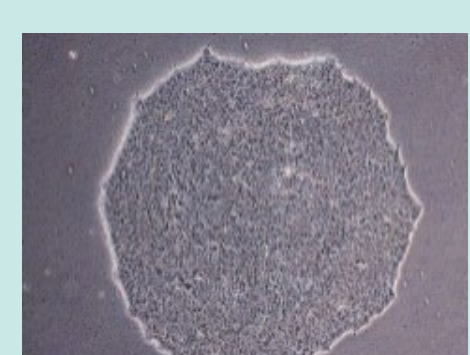
### Phenotypic screening



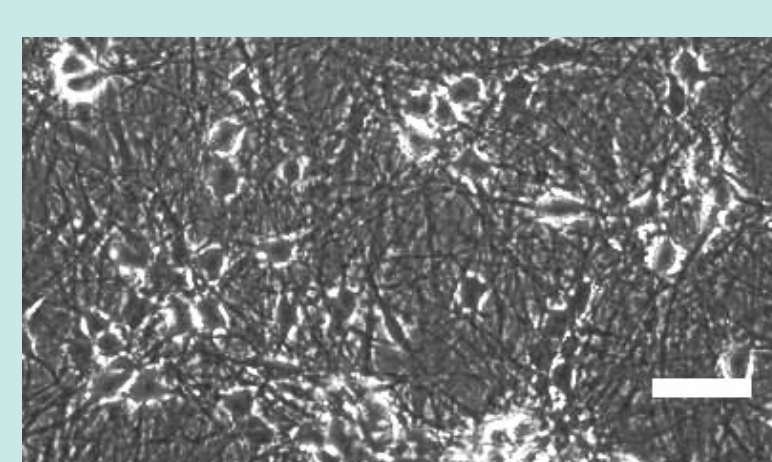
High throughput library drug screening

DECODING  
EPILEPSY

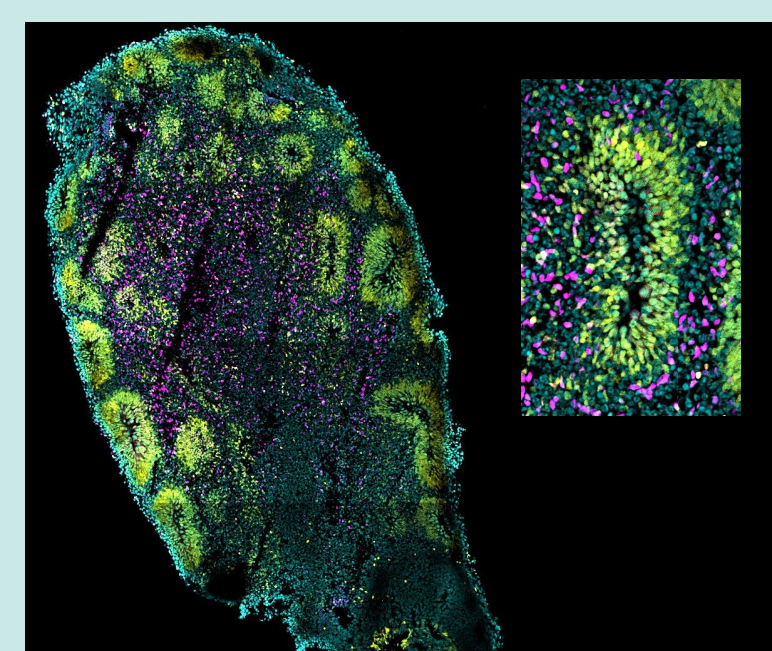
## Disease modeling & Functional characterization



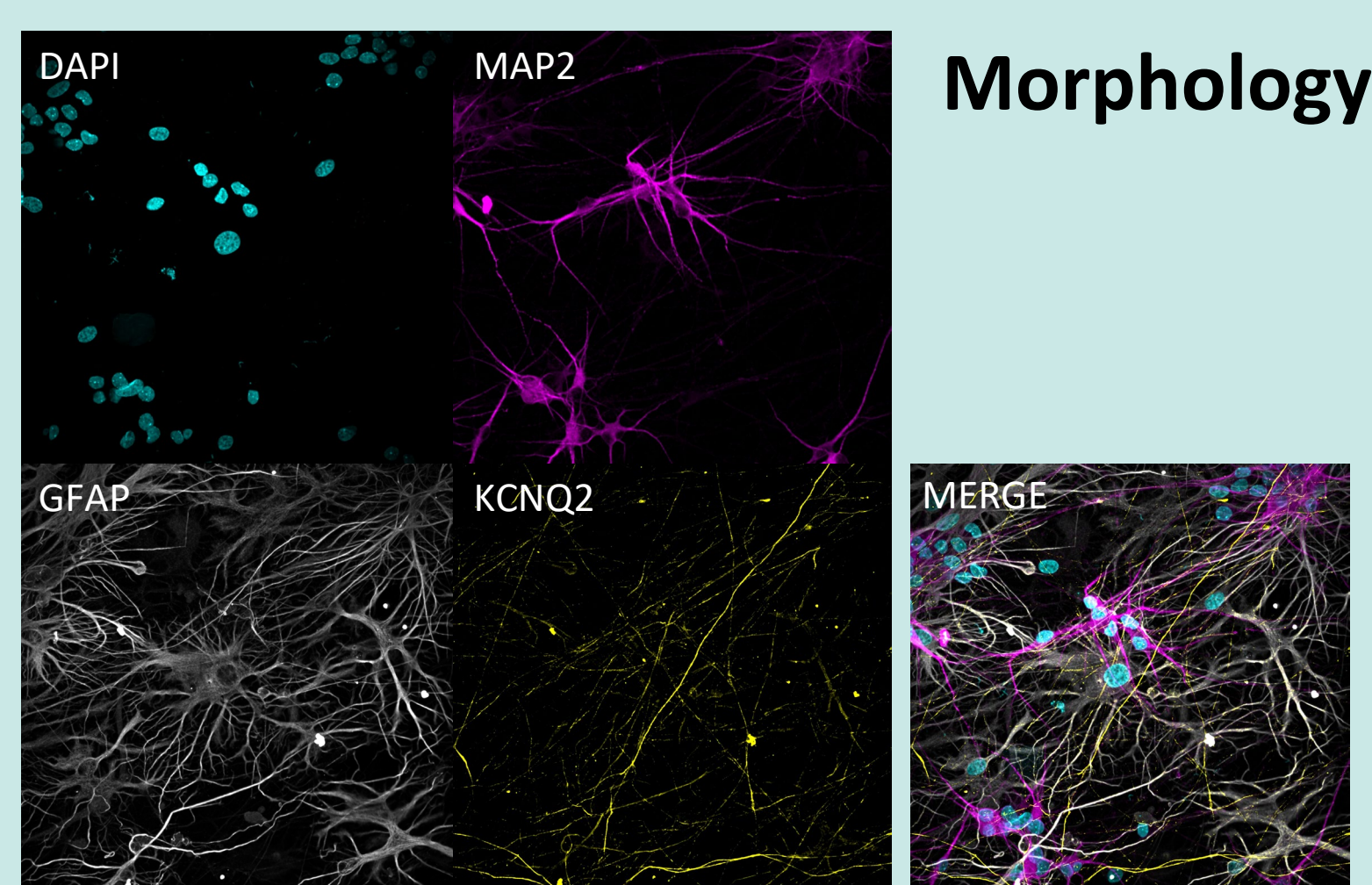
Human  
iPSC



2D neuronal cultures

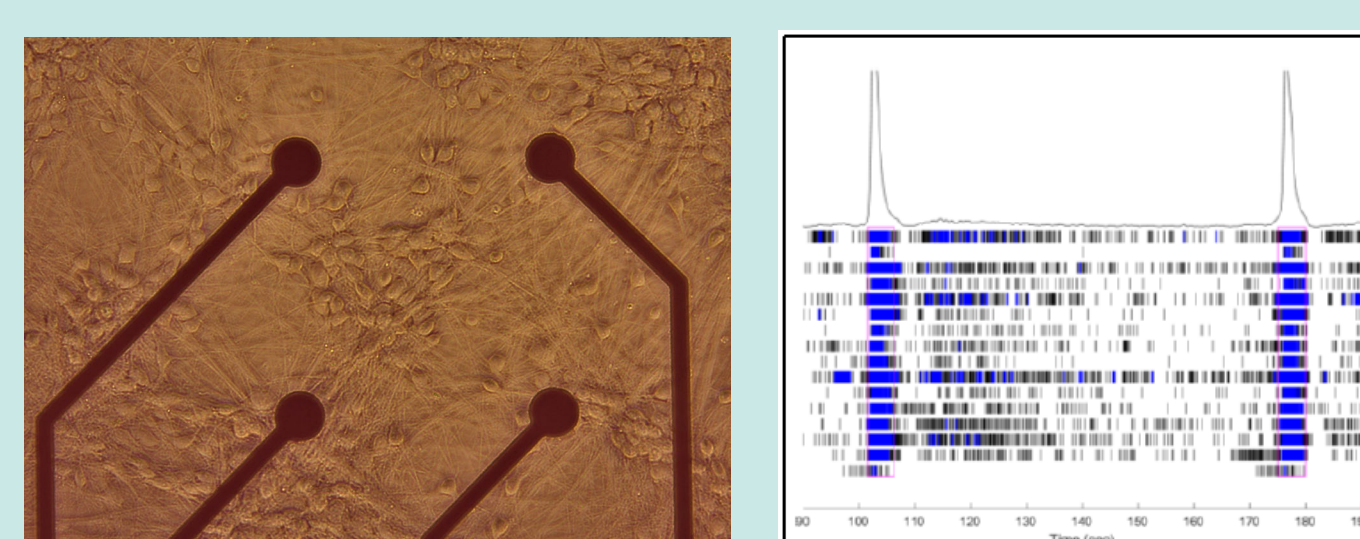


Brain organoids



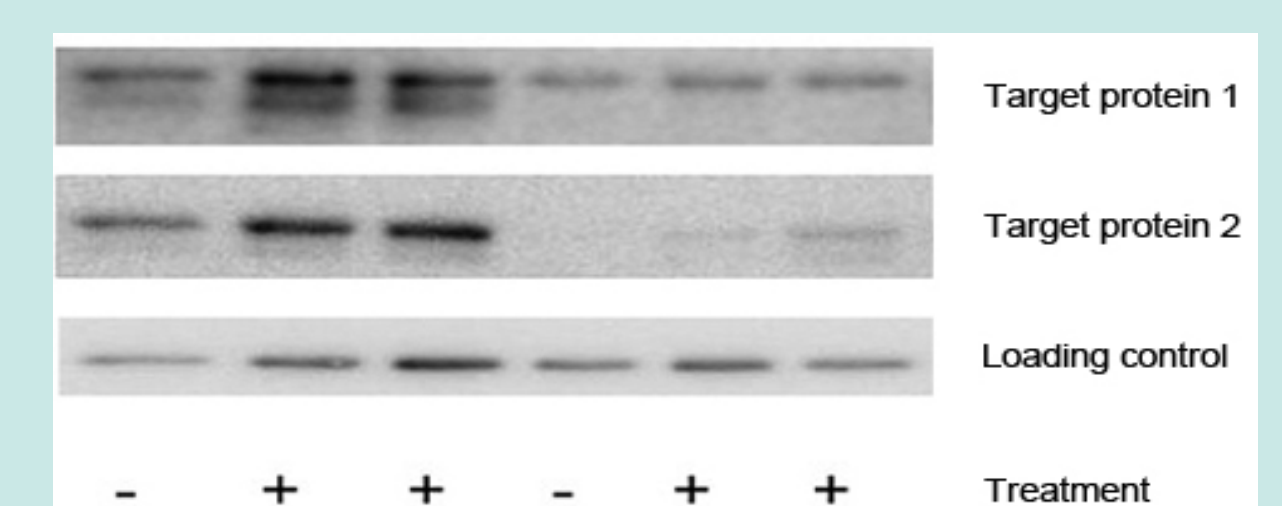
Morphology

### Electrophysiology



### Characterization

#### Western Blot



#### qPCR

