

## Laboratory

### Molecular Neurogenetics Unit



Genomics / Postgenomics

#### SUPERVISORY BODIES

Inserm / Université  
d'Evry-Val d'Essonne

#### DIRECTOR

Judith MELKI

#### CONTACT DETAILS

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#### MAIN TOPIC

- Post-genomics/physiopathology and post-genomics approach.

#### FIELD OF ACTIVITY

- Main objective: the understanding and therapeutic approaches of human neurodegenerative diseases using murine models.

#### ACTIVITY (KEYWORDS)

- Neurodegenerative and neuromuscular diseases, murine models, physiopathology, therapeutics.

#### RESEARCH THEMES

- The laboratory has been located on the Genopole campus in Evry since its creation in 1999.

The lab is currently funded by the INSERM, the AFM (the French Muscular Dystrophy Association), the University of Evry-Val d'Essonne and the newly established French National Research Agency.

Research for understanding and treating disabling diseases

The lab's research focus is on human neurodegenerative and neuromuscular genetic diseases, such as spinal muscular atrophy, amyotrophic lateral sclerosis and spastic paraplegia - all of which are particularly serious, disabling and incurable.

The objective of our research is two-fold: 1) to better understand the physiopathology of these diseases; 2) to develop innovative strategies for pharmacological or cell therapies.

The research (based on close collaboration between clinicians and scientists) is situated at the interface of preclinical biomedical research and clinical medicine. Our work has already led to the development of animals (essentially murine) models developing human diseases. It is now moving through to the development of medical applications for the treatment of rare genetic diseases.

All the research work performed by Judith Melki and her group is the fruit of close collaborations on the Evry campus with, notably, the AFM (the French Muscular Dystrophy Association), the National Genotyping Center, the National Sequencing Center and South Ile-de-France Medical Center.

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