



ISTT Online Workshop on Gene Editing via Mouse Embryo Electroporation

Highlights

- Electroporation principles and required setups for generating knockout and small KI mouse models
- Embryo survival & gene editing efficiencies
Electroporation vs Microinjection
- Updates on CRISPR-READI (electroporation coupled with AAV infection) for large KI targeting.

Meet the Experts



Dr Fabien Delerue



Fatima El Marjou

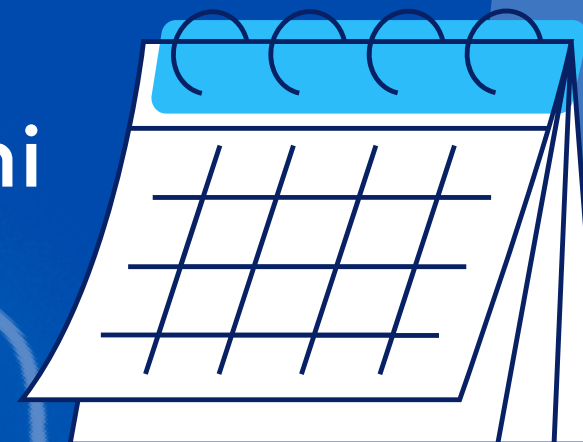
2 Offered Sessions:

24 May 2023 at 15:00 UTC

10AM Houston | 5PM Paris | 8.30PM New Delhi

25 May 2023 at 06:00 UTC

8AM Paris | 11.30AM New Delhi | 4PM Sydney



**REGISTER BY
20 MAY 2023**

**FREE Registration at
[ISTT workshop page](#)**

Contact: education@transtechsociety.org

Meet the Experts



Dr Fabien Delerue

Dr Fabien Delerue's career spans over 20 years of practice in animal handling, surgery, and the generation of animal models of diseases. He gained his first research experience in the Laboratory of Cognitive Neuroscience (Bordeaux, France) and moved to the preclinical CNS Centre of Hoffmann-La Roche Ltd (Basel, Switzerland) where he gained expertise in vivo activities, developing several animal models of human pathologies and implementing those models for the screening of new drugs. Further, Dr Delerue moved to the University of Sydney (Australia) where his research focused on the production and characterization of new transgenic mouse models of neurodegeneration. Dr Delerue established and managed transgenic core facilities for three different Australian universities.

Dr Delerue is the co-founder and director of Ideal Genetics, a consulting company specializing in transgenesis and genome editing services operating in Oceania. He is currently the Head of Genome Editing at Macquarie (GEM), a transgenic core integrated into the Dementia Research Centre at Macquarie University.



Fatima El Marjou

After obtaining a Bachelor's degree in biology, Fatima El Marjou was recruited by the CNRS as a technician in D. Louvard's team at the Institut Curie (Paris, France). Her major focus was to generate and analyze genetically modified mouse models for gene control and colorectal tumorigenesis. In particular, she generated a widely used mouse model that allows the expression of the gene of interest specifically in the intestinal epithelium at the desired time point (Villin:Cre/ERT2). She acquired expertise in molecular cell biology, mouse breeding management, and transgenesis techniques such as pronuclear and cytoplasmic microinjection, embryo transfer, and genotypic analysis. She then used this experience to set up an additive transgene service to meet the demands of Institut Curie researchers alongside her research activities. She capitalized on this experience by obtaining a master's degree and an engineer position at CNRS.

In 2013, she implemented CRISPR Cas9 technology to routinely generate knock-out and small knock-in mouse models. Being fascinated by these technological advancements, in 2018, Fatima El Marjou decides to devote 100% of her work time to genome editing activities. Through participation in national networks such as Celphedia and international networks such as ISTT, she continues to improve procedures such as in-vitro fertilization and electroporation to generate models for the researchers at the Institut Curie.