

# New Animal Models to Understand the Brain 3rd Edition

Faculté de Médecine, Boulevard Tonnelé, TOURS  
Amphithéâtre D  
21 Octobre 2019 8:30-17:30

8:30 Welcoming coffee  
9:00 Introduction. **Elodie Chaillou**. Inra Centre Val de Loire, Nouzilly

## Session 1 – Brain anatomy

- 9:10 **Björn Nitzsche**, Department of Nuclear Medicine University Hospital, Leipzig.  
A stereotaxic brain atlas of dogs.
- 9:40 **Mariam Andersson**, Danish Research Centre for Magnetic Resonance, Copenhagen.  
Diffusion and microstructure imaging in large animals.
- 10:10 **Luca Bonfanti**, Neuroscience Institute Cavalieri Ottolenghi, University of Turin.  
Large-brained, gyrencephalic mammals as a model for studying brain plasticity.
- 10:40 **Arsène Ella**, Inra Centre Val de Loire, Nouzilly.  
Developing MRI to track the effects of sex-steroids on brain sexual dimorphisms.

11:10-11:30 Coffee break

## Session 2 – Junior scientists (short communications)

- 11:30 **Manon Chasles**. Sheep : a model to study the physiological and behavioral consequences of a prenatal androgenization.
- 11:40 **Roberta Vitiello**. The prebiotic lactulose does not affect olfactory neurogenesis in a sheep model of early life stress.
- 11:50 **Nathalie Just**. Investigating hypothalamic neurogenesis in the sheep with MRI.
- 12:00 **Csilla Fazekas**. Effect of pharmacogenetic manipulation of the median raphe neurons on social behavior in connection with locomotion and thermoregulation.

## Session 3 – Technical developments

- 12:15 **Jean-Yves Ramel**, Laboratoire d'informatique, Université de Tours.  
SILA-3D.
- 12:45 **Dóra Zelena**, Institute of Experimental Medicine, Hungarian Academy of Sciences, Budapest.  
Using pharmacogenetic in mice and its possible application in gyric animals.

13:15-14:45: Lunch

## Session 4 – Translational research

- 14:50 **Ilyess Zemourra**, Service de Neurochirurgie, Hôpital Bretonneau, CHRU de Tours, iBrain, Université de Tours, Inserm.  
Intraoperative ultrasound stimulation. Feasibility study in sheep.
- 15:20 **Carsten Bjarkam**. Department of Neurosurgery, Aalborg University Hospital, Aarhus.  
A porcine brain abscess model: background and preliminary results.
- 15:50 **Alistair Lawrence**, Scotland's Rural College, Roslin Institute, Edimburgh.  
Using the pig as a model of neuroinflammation.
- 16:20 **Jean-Michel Escoffre**, iBrain, Inserm, Tours.  
Therapeutic Ultrasound for Brain Diseases
- 17:00 Conclusion

