

## AnHuTrAp workshop

### Cambridge/Oxford/Düsseldorf/Marseille Research Workshop on Animal-Human Translational Approaches to Decision-Making in Neuroeconomics October 7-8, 2021

Venue: AMU-AMSE, 5 boulevard Maurice Bourdet, 13001 Marseille

- October 7: amphithéâtre (3<sup>rd</sup> floor)

- October 8: amphithéâtre (3<sup>rd</sup> floor) to 12.35 and meeting room (2<sup>nd</sup> floor) from 14.00

#### October 7

*Open to the public (within the limits of available places)*

- 14.00-14.45 **Tobias Kalenscher**, Institute of Experimental Psychology, Düsseldorf  
*Purchasing power of effort in rat consumers - Budget effects on price elasticity depend on anterior cingulate cortex integrity*
- 14.45-15.30 **Christelle Baunez**, Institut Neurosciences Timone, Marseille  
*The subthalamic nucleus in decision making under various conditions in rats, monkeys, and human subjects*
- 15.30-15.45 Coffee break
- 15.45-16.30 **Wolfram Schultz**, Dept of Physiology, Development and Neuroscience, Cambridge  
*Economic risk and outlier rewards*
- 16.30-17.00 General discussion and coffee break

#### October 8

*Restricted to research group*

- 10.00-10.35 **Simone Ferrari-Toniolo**, Dept of Physiology, Development and Neurosc., Cambridge  
*Probability weighting and utility coding in orbitofrontal neurons - presentation online*
- 10.35-11.00 **Yue Hu**, Institute of Experimental Psychology, Düsseldorf  
*From Chocolate milk to Victoria secret: a comparative study of primary reward consumption under budget constraints*
- 11.00-11.25 Coffee break
- 11.25-12.00 **Stéphane Luchini** or **Patrick Pintus**, Aix-Marseille School of Economics, Marseille  
*Decision-making in rats is sensitive to rare and extreme events*
- 12.00-12.35 **Andrea Brovelli**, Institut Neurosciences Timone, Marseille  
*Functional connectivity during decision making*
- 12.35-14.00 Lunch break
- 14.00-17.00 Research groupe meeting

## Themes and Objectives of the Research Group

How the evolutionary roots of human decision-making processes relate to choice mechanisms and to their neural substrates in animals has been a traditional subject matter for biology, psychology and neuroscience. However, social sciences have hardly explored such a methodological approach to gain a better understanding of both how people make decisions and how societies get organized.

The interdisciplinary research group on Animal-Human Translational Approaches (AnHuTrAp) aims at advancing the research frontier on decision-making by building bridges between approaches developed in evolutionary ecology, neurobiology psychology and economics. The three teams from Cambridge/Oxford, Düsseldorf and Marseille are currently conducting research based on a translational approach that combines the use of animal (rats and monkeys) as well as of human models and that develops experimental methods to do so.

## Research Group Members

### Cambridge/Oxford team

- Wolfram Schultz and Simone Ferrari-Toniolo - Department of Physiology, Development and Neuroscience, Churchill College, University of Cambridge
- Fabian Grabenhorst - Department of Experimental Psychology, University of Oxford

### Düsseldorf team

- Tobias Kalenscher and Yue Hu - Institute of Experimental Psychology, Heinrich Heine University Düsseldorf

### Marseille team

- Christelle Baunez and Mickaël Degoulet - Institut Neurosciences Timone
- Stéphane Luchini and Patrick Pintus - Aix-Marseille School of Economics