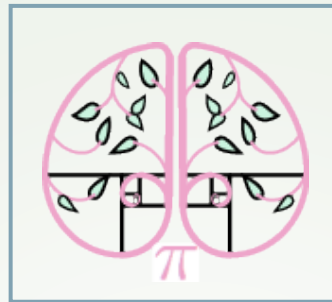


# Models of Life

JANUARY 24TH, 2017



Collège de France, 11 Place Marcelin Berthelot, Paris  
**Seminar Room D2**

09:15- 10:45 Boris Gutkin (Group for Neural Theory, École Normale Supérieure, Paris)  
*Dynamical Mechanisms of Bursting in Dopamine Neurons*

10:00 – 10:30 Aleksandra Walczak (Laboratoire de Physique Théorique, École Normale Supérieure)  
*Diversity of immune receptor repertoires*

*Coffee Break*

10:45 – 11:15 Thibaud Taillefumier (Department of Mathematics, UT Austin)  
*Microbial consortia at steady supply*

11:30 – 12:00 Olivier Rivoire (CIRB – Collège de France)  
*Information processing in evolving populations*

*Lunch Break*

14:00 – 14:30 Romain Brette (Institut de la Vision, Paris)  
*Neural geometry and excitability*

14:45 - 15:15 Hugues Berry (Inria)  
*Calcium signals in astrocytes: from intercellular towards subcellular models*

15:30 - 16:00 Gianluigi Mongillo (CNRS and Université Paris Descartes)  
*Inhibitory connectivity defines the realm of excitatory plasticity*