Objectives:

- Propose a theory and a hardware implementation of probabilistic computation inspired by biochemical cell signaling. Study probabilistic computation following three axes: algebra, biology, and hardware:

  - **Theory of probabilistic computation (WP1)**
  - **Biological signal processing and probabilistic computation (WP2)**
  - **Innovative probabilistic hardware developments (WP3)**

- Within the BAMBI consortium, ISR-UC will focus on the emulation hardware implementation and on the computational architecture to be developed, namely in the composition of basic building blocks for probabilistic computation.