

Florence TAMA

Position	Professor
Lab/Group	Computational Biophysics Laboratory (B Lab)
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Education and Degrees

1997, *M.S.*, Paul Sabatier University, France

2000, *Ph.D.*, Paul Sabatier University, France

Positions

2001–2005, *Postdoctoral Fellow*, The Scripps Research Institute, La Jolla, CA,
USA

2006–2012, *Assistant Professor*, Department of Chemistry & Biochemistry,
University of Arizona, USA

2013–present, *Research Unit Leader*, AICS, RIKEN

2015–present, *Professor*, Department of Physics, Nagoya University

2016–present, *Principal Investigator*, WPI-ITbM, Nagoya University

Research

Biophysics is a field of study that aims to understand biological phenomena using the principles and tools of physics. Every living organisms must be following the laws of physics, however, due to their complexity, our understanding on biological systems is still limited.

Our research group focuses on the studies of biological molecules such as proteins and nucleotides. Biological complexes, structured ensembles of proteins and nucleic acids, perform many vital cellular functions and dysfunctions of those result in severe diseases. In order to understand diseases and develop treatments, the functional mechanisms of these biological complexes need to be elucidated. A crucial step in this process is the characterization of the structures and dynamics of these complexes. We use

computational techniques, often in collaboration with experimental groups, to study important biological systems.

[Nagoya University Faculty Profile Page \(link\)](#)

[Lab/Group Homepage \(link\)](#)

List of Publications

[Google Scholar \(link\)](#)