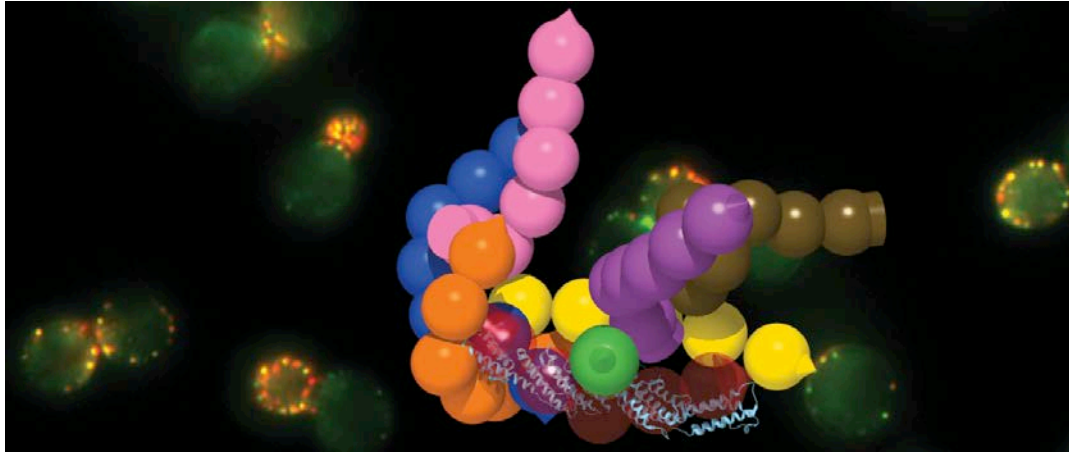


PhD in “Live-cell structural biology of supra-assemblies regulating cell growth”

Oriol Gallego laboratory, DCEXS (UPF), Barcelona, Spain



The project

We have recently developed a new **live-cell structural biology** method based on **cell engineering and advanced fluorescence microscopy**. Our approach allows visualizing the structure of complex molecular assemblies directly in living cells and thus we are capable of solving key questions in cell biology that were not accessible by other techniques (**Picco *et al*, 2017, Cell**). The student will combine this approach with **super resolution microscopy** and **genetics** to resolve the higher-order mechanism that controls exocytosis in the model organism *Saccharomyces cerevisiae*. Exocytosis is an essential cellular process conserved in all eukaryotes that is directly involved in cell growth, establishment of cell polarity and neurobiology.

Requirements

- MSc degree in Biophysics, Biomedical Sciences, Biology, Biochemistry, or similar.
- Expertise in yeast genetics or fluorescence microscopy. Experience in vesicle transport/image analysis is a plus.
- Highly motivated, enthusiastic and creative.
- Excellent written and oral communication skills in English.

The position

You will be employed on a 4-year PhD position in the group of Oriol Gallego at the department of Experimental and Health Sciences of the Pompeu Fabra University (UPF) with starting date around autumn 2018. The student will be part of a newly emerging research lab devoted to study supra-molecular machineries that control cell growth. Our work also involves the development of new interdisciplinary techniques in the frontier between cell biology and structural biology. We are building a team of scientist with different expertise where you will be trained in a wide panel of disciplines and where you are expected to contribute and collaborate.

The DCEXS

The department of Experimental and Health Sciences of the Pompeu Fabra University (www.upf.edu/web/biomed) is located at the PRBB, a scientific park hosting 6 research centers, including a new outstation of the European Molecular Biology Laboratory. We are equipped with state-of-the-art research facilities in a unique scientific environment. DCEXS research excellence has been recognized with a Maria de Maeztu award and our PhD program in Biomedicine is entirely in English.

More information can be obtained in our web page: www.gallegolab.org

How to apply

If you are interested in this position, please contact Oriol (oriol.gallego@upf.edu) before **15th September 2018**. Include a **Curriculum Vitae, Cover letter and three reference contacts**.