

## 1° Year of Phd in NANOSCIENCE

Name: Francesco Margheriti

Supervisor: Dott. Gianpiero Garau





National Enterprise for nanoScience and nanoTechnology





### ATTENDED COURSES (with final exam):

- Introductory Quantum Physics
- Fundamentals of Biophysics at the Nanoscale
- Physics of the living cell

## OTHER PHD ORIENTED ACTIVITIES:

- Ciclo di seminari Biophysical sciences
- Scientific data analysis school





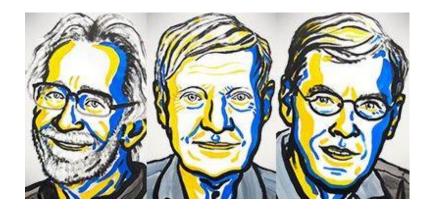




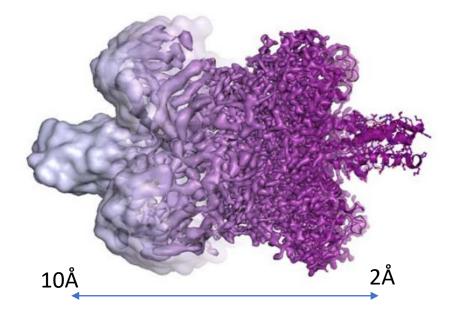


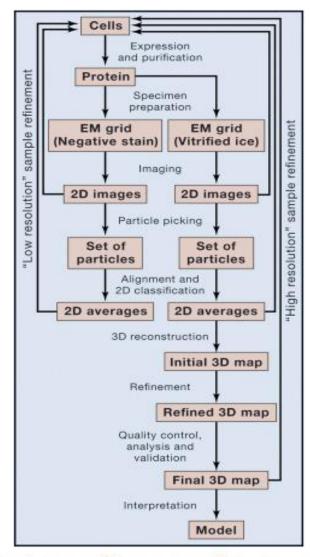
# SINGLE PARTICLE CRYO-ELECTRON MICROSCOPY

#### **The Nobel Prize in Chemistry 2017**



**Dubochet – Frank - Henderson** 





National Enterprise for nanoScience and nanoTechnology

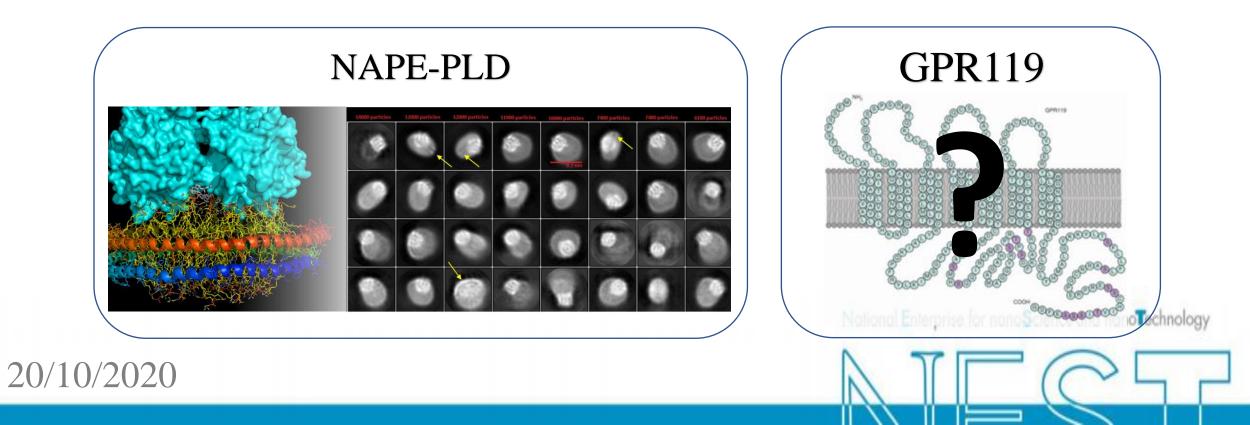




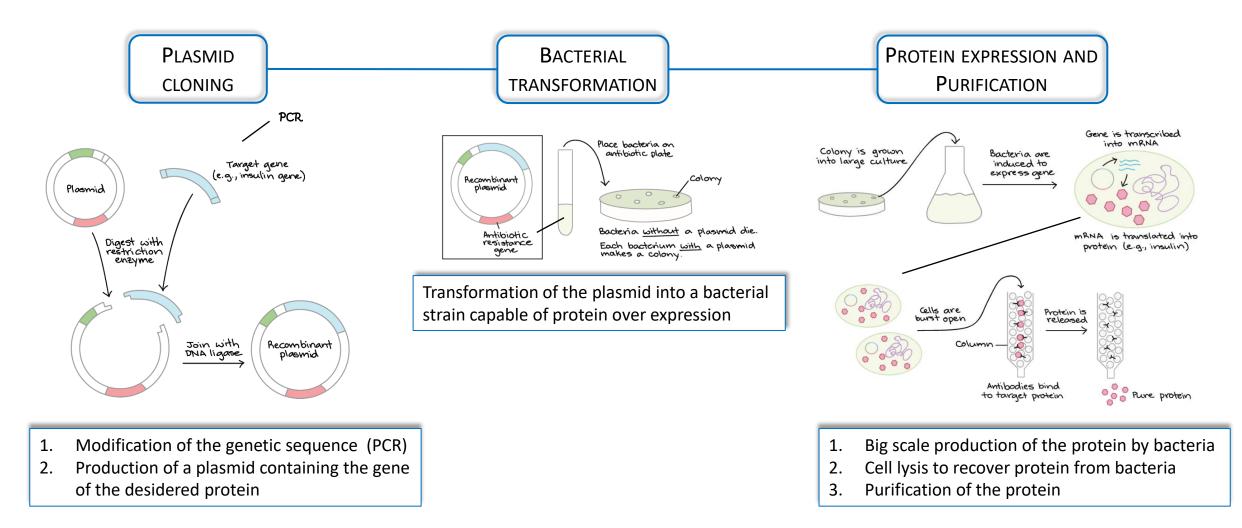
### PHD OBJECTIVES



- 1. Acquire knowledge for images acquisition, data processing and 3D reconstruction of membrane proteins by cryo-EM
- 2. Determine the structure of the membrane receptor GPR119 by cryo-EM



## Recombinant protein expression



### 20/10/2020