



RESEARCH INTERNSHIP IN MOLECULAR BIOLOGY / BIOPHYSICS

Are you looking for a research opportunity that can give you a **head-start** in your future scientific career? Do you find it easy to **adapt** to an international environment? Do you seek to gain **experience** in a scientific laboratory? Do you wish to take part in a challenging project with high chances of scientific **publication**? Then this vacancy is for you!

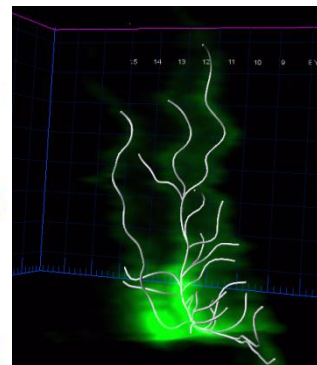
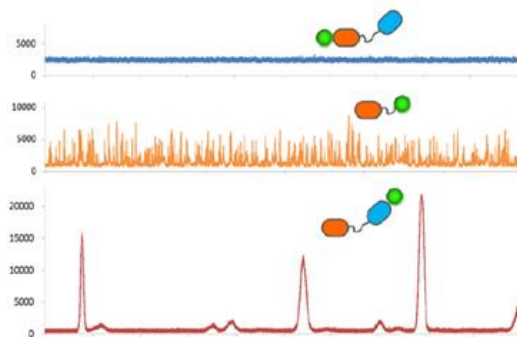
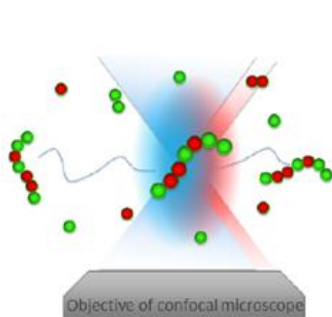
Our Group:

'*InteracTeam*' - research group based at the University of New South Wales, Sydney (UNSW). We are part of the newly created EMBL node in Australia, Single Molecule Science Group (SMS). Our group uses single-molecule biophysical techniques to investigate the role of Protein-Protein Interactions (PPI's) in different biological systems:

- neurodegenerative disease and effect of chaperones
- Protein fibrillation as an extreme amplification of signal in innate immunity
- Networks of interactions of transcription factors and their druggability in cancer
- Type III secretion system and hijacking of pathways during bacterial infection

Our techniques:

- cell-free expression of proteins and analysis of protein binding without purification using nanobeads assays
- Single molecule counting to detect oligomerisation or aggregation of the proteins
- 3D Lattice light sheet imaging to image protein complexes and protein fibrils



Who are we:

Two group leaders, a total of 5 PhD students, 2 research assistant, and interns from all over the world - France, India, Ireland, Australia, Spain and Portugal. The two group leaders are from Ecole Normale, enjoyed training abroad and are keen to continue the cycle by giving opportunities to the next generation !

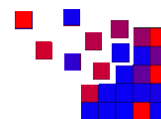
We have a few projects set out for you, starting first trimester of 2017, Please send your **CV** and **motivation letter** y.gambin@unsw.edu.au & e.sierecki@unsw.edu.au



UNSW
AUSTRALIA

EMBL

Australia
Single Molecule Science



InteracTeam