

# PhD studentship Offer

**4-year FPI contract** associated to **MCINN Grant CTQ2011-28680**

**Topic:** Recognition of **chromatin structure** by the **ING tumor suppressors**

**Where:** At **CIC bioGUNE**, near Bilbao, Spain, under the supervision of **Dr. Francisco J. Blanco**, Group leader in the Structural Biology Unit

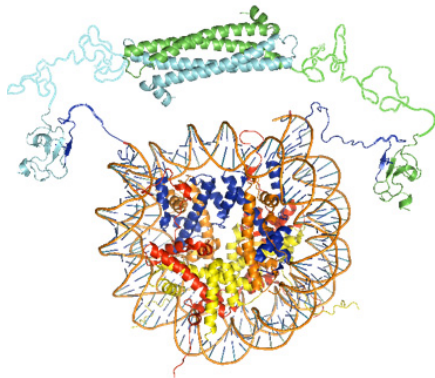
**Who:** A **motivated** graduate student with interest in **structural biology**.

**When:** The **contract** will commence in **summer 2012**. By then the student should hold a **Master degree** to have access to the PhD program of a spanish university

**How:** Early in 2012 the MCINN will publish the list of grants with associated contracts and the candidate should apply for it.

If the candidate is currently enrolled in the Master program of the local UPV-UC universities, he/she may do the **Master research project** in our laboratory starting in **january 2012**.

**Applicants should send their CV to [fblanco@cicbiogune.es](mailto:fblanco@cicbiogune.es)**



**Model of ING4 bound to the nucleosome.** ING4 is an antiparallel dimer (green a cyan ribbons) with two domains that specifically recognize the histone H3 N-termini (in blue) trymetylated at lysine-4.

We will investigate their binding to the same nucleosome and the interations with the DNA

## Recent publications of the group

- The Dimeric Structure and the Bivalent Recognition of H3K4me3 by the Tumor Suppressor ING4 Suggests a Mechanism for Enhanced Targeting of HBO1 Complex to Chromatin. Alicia Palacios *et al.*, 2010, **Journal of Molecular Biology** 396, 1117-1127.
- Functional impact of cancer-associated mutations in the tumor suppressor protein ING4. Alberto Moreno *et al.*, 2010, **Carcinogenesis** 31, 1932-1938.
- Solution Structure of Human Growth Arrest and DNA Damage 45 $\alpha$  (Gadd45 $\alpha$ ) and its Interactions with Proliferating Cell Nuclear Antigen (PCNA) and Aurora A Kinase. Ricardo Sánchez *et al.*, 2010, **Journal of Biological Chemistry** 285, 22196-22201.
- Transient Protein-DNA/RNA interactions. Francisco J Blanco & Guillermo Montoya, 2011, **FEBS Journal** 278, 1643-1650.
- Reduced stability and increased dynamics in the human proliferating cell nuclear antigen (PCNA) relative to the yeast homolog. Alfredo De Biasio *et al.*, 2011, **PLoS One** 6, e16600.