**Internship Project Title:**

**Understanding the mechanism of chromatin assembly during DNA replication**

**Short Description of the Work:**

The student will use in vitro biochemical approaches to study the interactions and activity of proteins responsible for assemblying chromatin on replicated DNA.

The student will learn how to use bacteria, yeast and insect cells to express recombinant proteins. They will learn to purify these proteins and to use them in biochemical assays.

**Duration of the Internship:**

The internship should last no shorter than 6 months.

**Necessary Skills and Qualifications:**

Interest in genome biology and epigenetics is a plus. Structural biology interest is also a plus.

**Techniques to be Used:**

Bacteria, yeast, insect and human cell cultures. Protein expression and purificaiton. SDS-PAGE, PAGE and western blotting. Recombinant chromatin preparations and analyses. Fluorescence-based assays.

**Learning Objectives:**

The student will learn to express and isolate highly pure mutli-subunit protein complexes and DNA molecules. The student will learn how to design and execute biochemical assays involving recombinant chromatin components.

**Host institution:**

Hubrecht Institute, Utrecht

**Supervision:**

* **Daily Supervisor:** PhD student or postdoc in the lab, dependent on the specific project
* **Principal Investigator (PI):** Francesca Mattiroli

**Contact Email Address:** f.mattiroli@hubrecht.eu

**Other Host-Specific Requirements:**

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**Date of Posting:**

10-01-2025