3-day PhD course: Epigenetics in Cancer

- **Dates:** 26 - 28 August 2019 at 10:00 to 16:00.
- **Place:** AU Conference Center, room (TBA)
- **Head of course:** Professor Anders Lade Nielsen and Ass. Professor Lise Lotte Hansen, Dept. of Biomedicine.

**Course description**

Epigenetic changes are involved in development and progression of cancer. Epigenetic-based biomarkers are promising for being prognostic and predictive of treatment response.

We will introduce the background of non-coding RNAs and DNA methylation in relation to cancer epigenetics, and will cover the following:

1. Epigenetic reprogramming
2. Epigenetic deregulation
3. Epigenetic-based biomarkers
   a. Liquid biopsies
   b. FFPE tissues
4. Epigenetic-based therapy

**The course will include workshops related to the topic: How to identify an epigenetic-based biomarker**

1. Generation of epigenomic data
2. Analyses of epigenomic data
3. Validation of the generated epigenomic data

The course will contain expert lectures and workshops including short presentations of “today’s subject”.

**ECTS credits**

Participation in this course equals 2.4 ECTS (including the joint session).