

## **Màster Biomedicina**

**Programa de l'assignatura: Investigació Bàsica i Translacional en Patologies Humanes 569890**

**Nom de l'assignatura: Molecular Bases and Research in Cancer**

**Crèdits: 3**

**Coordinadors: Montserrat Coromines and Joan Gil**

### **Blocs temàtics:**

- 1. Introduction (1h)**
- 2. Genetics and epigenetics of cancer (1h)**
- 3. Cell cycle control mechanisms (4h).**
- 4. Signal transduction pathways (4h)**
- 5. Metastasis (1h)**
- 6. Angiogenesis (1h)**
- 7. Apoptosis and cancer (2h)**
- 8. Molecular bases of cancer therapy (2h)**

### **SEMINARS (12 h)**

## **Bibliografia**

### **Books:**

- **The Biology of Cancer (Garland Publishing Inc) 2<sup>nd</sup> Edition (2013)**  
by Robert A. Weinberg

### **Articles:**

- Hanahan, D., and Weinberg, R.A. (2000). The hallmarks of cancer. *Cell* *100*, 57-70.
- Hanahan, D., and Weinberg, R.A. (2011). Hallmarks of cancer: the next generation. *Cell* *144*, 646-674.