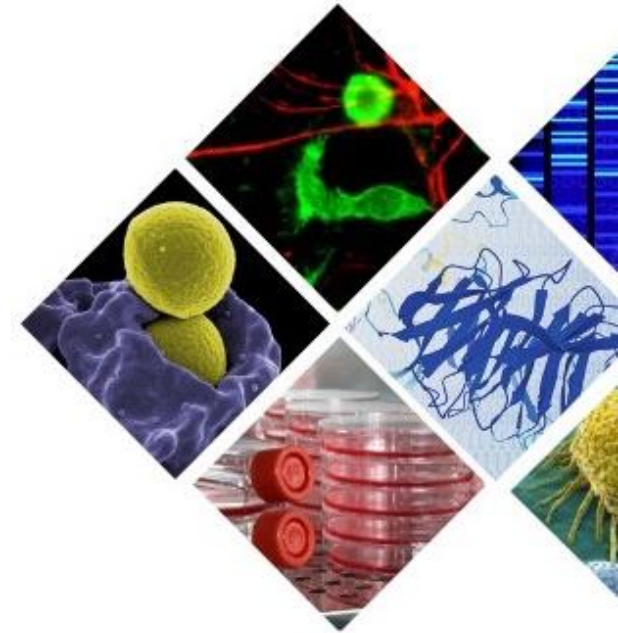


**Ciências
ULisboa**

Faculdade
de Ciências
da Universidade
de Lisboa

**MESTRADO
BIOQUÍMICA E BIOMEDICINA**



**Margarida Gama-Carvalho (DQB/FCUL)
and Peter Jordan (INSA)**



Oncobiology

Course presentation

General information

Faculty:

- Margarida Gama-Carvalho; Peter Jordan;
- Guest lecturers, healthcare professionals

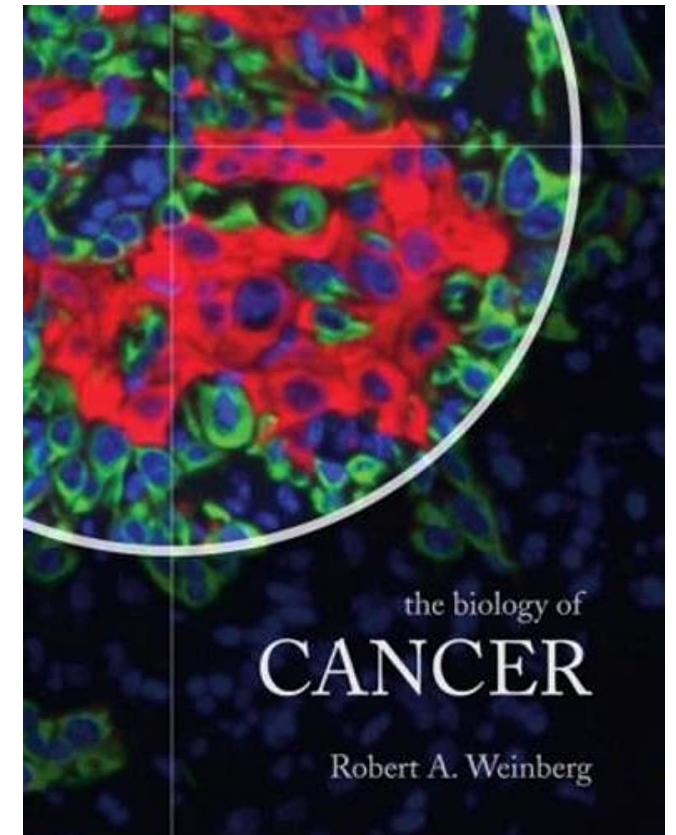
Teaching methods:

- Lectures, research seminars with specialists in the field
- Problem-based learning – Case Studies
- Discussion sessions with healthcare professionals

Assessment:

- Final written exam (50%)
- Continuous assessment (50%)

Recommended book:



Course topics:

Concepts of cancer development; International cancer statistics;

Hereditary forms of cancer; Breast cancer susceptibility genes;

Tumor suppressor genes; Mechanisms of mutagenesis and DNA repair;

Genetic subtypes in colorectal cancer; Leukemia and lymphoma;

Signaling pathways and cancer; The protein kinase superfamily; Apoptosis;

Cell metabolism; stress and angiogenesis; Migration; invasion and metastasis;

The tumor microenvironment; Chronic inflammation and cancer;

Lifestyle and cancer prevention

Problem based learning approach

3 case studies - 3 groups per case (3 students per group)

Week 1: in class discussion of the cases and identification of learning objectives

Week 2: one group per case study leads class and presents LOs (all groups submit their work).

Wrap-up 10 min multiple choice/word fill quiz.

Case studies



GOING TO THE DOCTOR



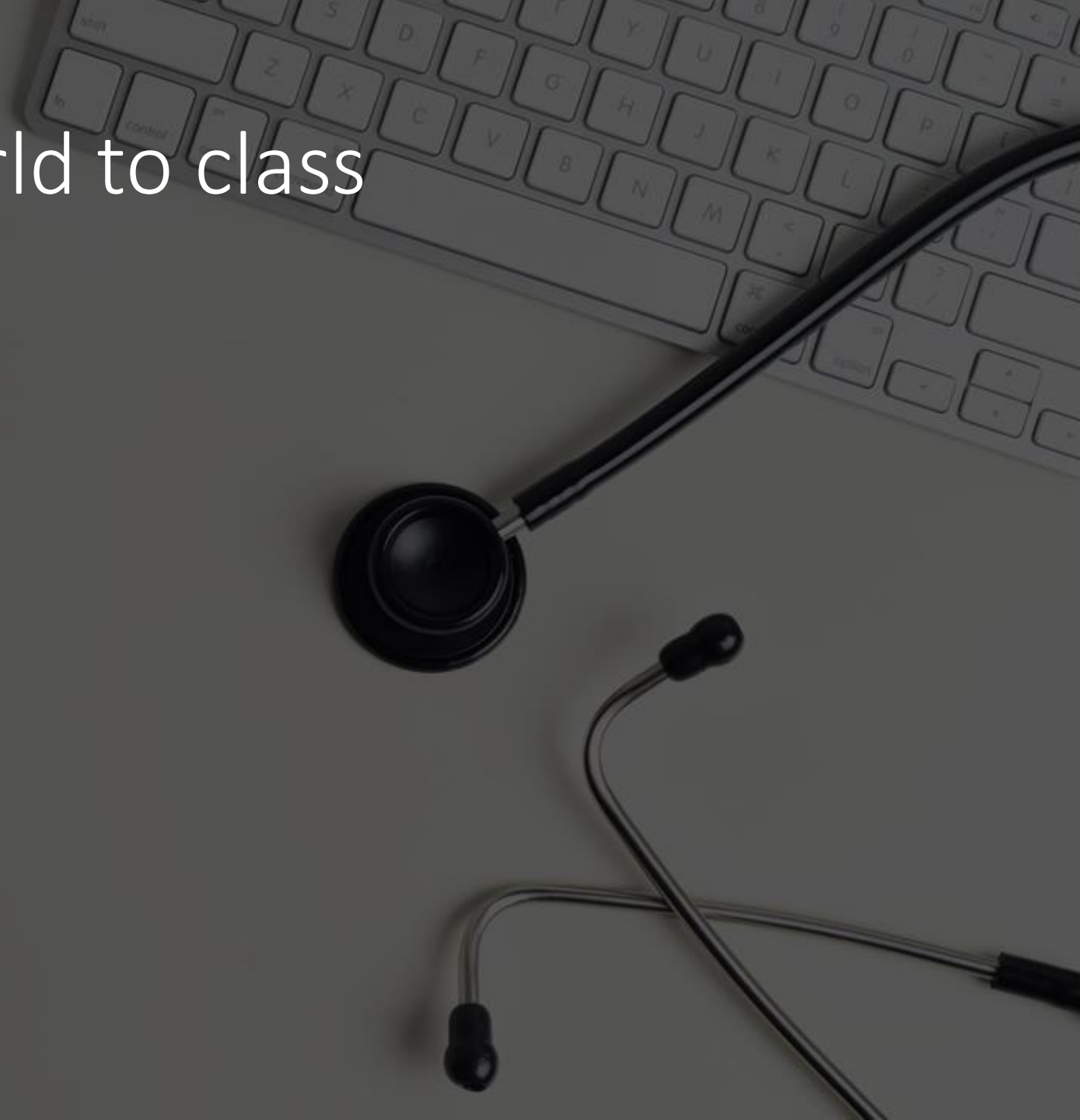
DIAGNOSIS AND FIRST
LINE OF TREATMENT



RESISTANCE AND
TARGETED THERAPIES

Bringing the real world to class

- Patient advocate
- Medical Geneticist
- Medical Oncologist



Group assignments

Case study	Group	Lead class on
1	1	March 11th
	2	April 8th
	3	May 20th
2	1	March 11th
	2	April 8th
	3	May 20th
3	1	March 11th
	2	April 8th
	3	May 20th

Continuous assessment



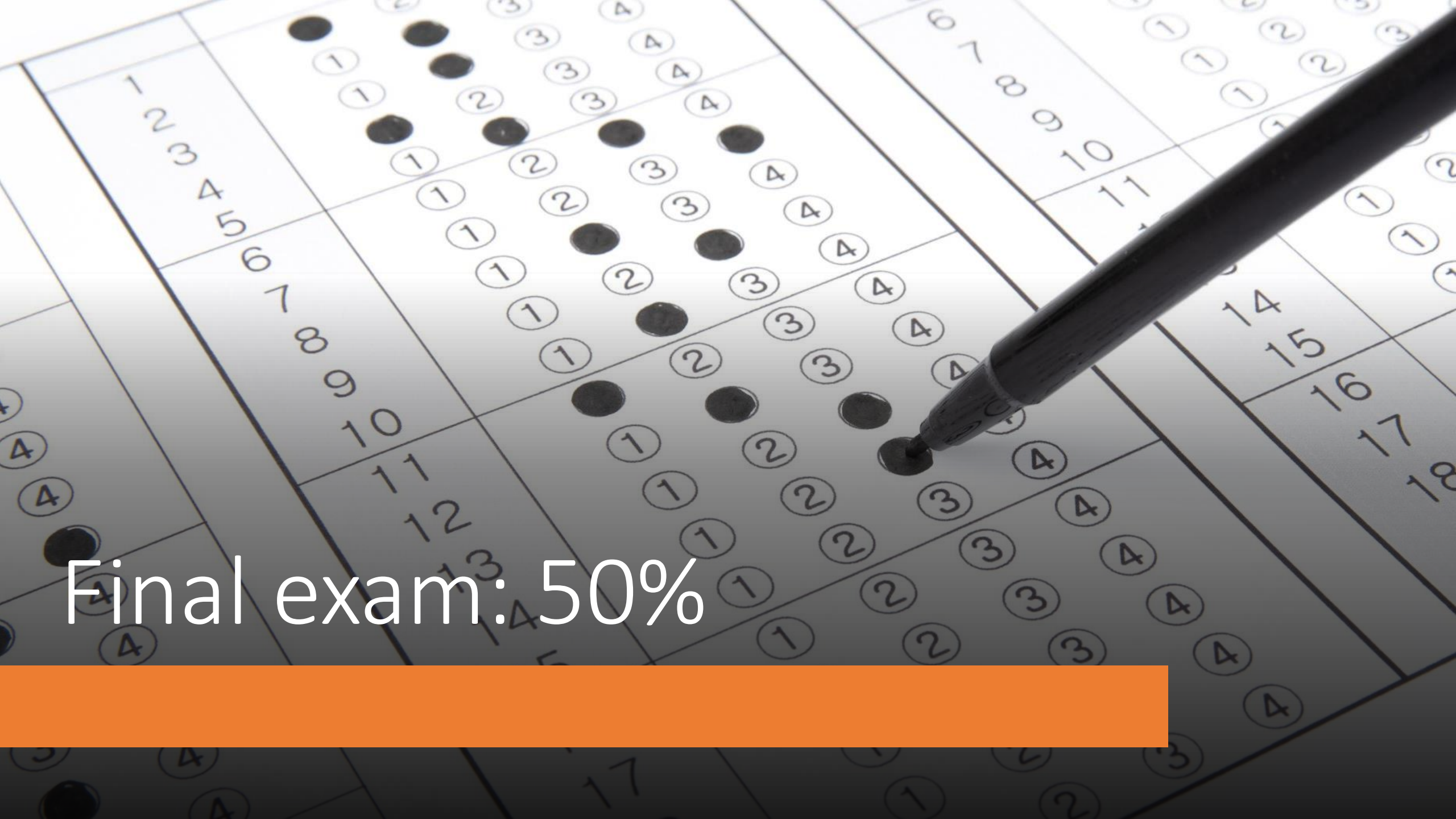
LO presentation (1): 15 points



Each LO report (2): 10 points



Each quiz (3): 5 points



Final exam: 50%



Course schedule

