



COURSE SPECIFICATION

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Program offering the course.	Postgraduate Doctor Degree in Clinical Pathology-CPATH 630
(2) Department offering the program	Clinical Pathology
(3) Department responsible for teaching the course.	Clinical Pathology
(4) Part of the program	Second Part (elective)
(5) Date of approval by the Department's council	16-5-2016
(6) Date of last approval of program specification by Faculty council	9/8/2016
(7) Course title	Stem cells
(8) Course code	CPATH 630 SC
(9) Credit hours	1
(10) Total teaching hours.	15

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows: (either to be written in items or as a paragraph)

The overall aim of the course is to:

Provide the student with the basic characteristics and role of stem cells in disease pathogenesis and therapy

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

A1-Identify the general characteristics of stem cell

A2-recognize the principles of immunogenetics of stem cell

A3-Describe the stem cell niche

A4-Define stem cell plasticity

B- Intellectual skills

B1- Demonstrate the role of leukemic stem cell in leukomogenesis

B2- Apply the principle of stem cell trans-differentiation in reparative medicine

B3- Distinguish various types of stem cells

B4- Use stem cell transplantation in disease management

(3) Course content:

Subjects	Lectures	Clinical	Laboratory	Field	Total Teaching Hour
Stem cell: General issues	1.5				1.5
Stem cell separation	2				2
Stem cell culture	2				2
Stem cell niche	1.5				1.5
Immunogenetics of stem cells	2				2
Cancer stem cell and leukemic stem cell	2				2
Stem cell transplantation	2				2
Stem cell plasticity	2				2

(4) Teaching methods:

4.1: Lectures

4.2: Self-learning

4.3: Student teaching

(5) Assessment methods:

5.1: Written exam for assessment of knowledge & intellectual skills.

5.2: Oral exam for assessment of knowledge , intellectual & communication skills.

5.3: MCQ continuous assessment at the end of each semester.

Percentage of each Assessment to the total mark:

Written exam. 60%(24 marks)

Oral exam. 25%(10 marks)

MCQ exam. 15%(6 marks)

Total : 100% (40 marks)

(6) References of the course.

6.1: Text books: Essential stem cell methods: reliable laboratory solution

6.2: Journals: Blood

Course coordinator: Prof. Tarek Selim

Head of the department: Prof. Osama Elbaz

Date: