

ROMANIAN ACADEMY

School of Advanced Studies of the Romanian Academy (SCOSAAR)

CONCISE SYLLABUS OF THE DISCIPLINE: "BIOMEDICAL RESEARCH AT THE CROSS ROAD OF SCIENCE IN THE XXIst CENTURY"

1. Data about the program

1.1 Department	Life, Medical and Agricultural Sciences
1.2 Institution	Romanian Academy
1.3 Domain of study	Biology
1.4 Study cycle	Doctorate

2. Discipline data

2.1 Name of the discipline	Biomedical research at the cross road of science in the XXI st century						
2.2 Titleholder of the course activities	Acad. Maya Simionescu						
2.3 Titleholder of the seminar activities	Acad. Maya Simionescu						
2.4 Owner of laboratory activities							
2.5 Year of study	I	2.6 Semester	I	2.7 Type of evaluation	E*	2.8 Regime of the discipline	SD**

3. Estimated total time (hours per semester of teaching activities)

3.1 Number of hours per week	4	Of which:			
3.2 course	2	3.3 seminar	2	3.4 laboratory	0
3.5 Total hours in the curriculum	56	Of which:			
3.6 course	28	3.7 seminar	28	3.8 laboratory	0
Distribution of time fund:					hours
Study using textbook, course support, bibliography and notes					60
Additional documentation in the library, on specialized electronic platforms and in the field					100
Preparation of seminars / laboratories, homework, papers, portfolios and essays					100
Tutorial					55
Exams					4
Other activities:					-
3.9 Total individual study hours	319				
3.10 Total hours per semester	375				
3.11 Number of credits (ECTS)	15				

4. "Learning outcomes" and specific skills acquired

1. Familiarization of Ph.D. students with the theoretical and practical principles underlying structural and functional biopathology of cardiovascular system in relation with the knowledge acquired in chemistry, biophysics, genetics and mathematics as well as with continuous and independent documentation.
2. Deepening the aspects related to the particularities of inter-relations between structure and function and theoretical and practical experimental modeling in biomedical research.
3. Development and consolidation of skills in a research laboratory in the technological era of biotechnology and applied science.
4. Enhancement of analytical thinking in the programming, development and accomplishment of an experimental model in vivo or in vitro.

5. Evaluation

Type of activity	5.1 Evaluation criteria	5.2 Evaluation methods	5.3 Weight of the final grade
5.4 Course	Acquired knowledge	Written and oral exam	55%
5.5 Seminar	Activity	Discussion, Debate	45%
5.6 Laboratory			
5.7 Minimum standard of performance: Knowledge of 70% of the information contained in the course			

Seminar holder signature

Course titleholder signature
Acad. Maya Simionescu -

Seminar titleholder signature
Acad. Maya Simionescu -

Laboratory owner signature

*E = Exam. C = Colloquy.

**FD = Fundamental Discipline. SD = Specialty Discipline.