

**ROMANIAN ACADEMY**

School of Advanced Studies of the Romanian Academy (SCOSAAR)

**CONCISE SYLLABUS OF THE DISCIPLINE:” BIOPATHOLOGY AND BIOCHEMISTRY OF BLOOD AND CARDIVASCULAR SYSTEM”**

**1. Data about the program**

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

**2. Discipline data**

<b>2.1 Name of the discipline</b>	Biopathology and biochemistry of blood and cardiovascular system						
<b>2.2 Titleholder of the course activities</b>	Acad. Maya Simionescu						
<b>2.3 Titleholder of the seminar activities</b>	Acad. Maya Simionescu						
<b>2.4 Owner of laboratory activities</b>							
<b>2.5 Year of study</b>	1	<b>2.6 Semester</b>	1	<b>2.7 Type of evaluation</b>	E*	<b>2.8 Regime of the discipline</b>	SD**

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

<b>3.1 Number of hours per week</b>	4	<b>Of which:</b>					
<b>3.2 course</b>	2	<b>3.3 seminar</b>	2	<b>3.4 laboratory</b>	0		
<b>3.5 Total hours in the curriculum</b>	56	<b>Of which:</b>					
<b>3.6 course</b>	28	<b>3.7 seminar</b>	28	<b>3.8 laboratory</b>	0		
<b>Distribution of time fund:</b>							<b>hours</b>
<b>Study using textbook, course support, bibliography and notes</b>							60
<b>Additional documentation in the library, on specialized electronic platforms and in the field</b>							100
<b>Preparation of seminars / laboratories, homework, papers, portfolios and essays</b>							100
<b>Tutorial</b>							55
<b>Exams</b>							4
<b>Other activities:</b>							-
<b>3.9 Total individual study hours</b>	319						
<b>3.10 Total hours per semester</b>	375						
<b>3.11 Number of credits (ECTS)</b>	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 and biochemistry of blood and cardiovascular system, as well as with continuous and independent documentation.
2. Deepening the aspects related to the particularities and difficulties of biomedical and cellular and molecular research.
3. Development and consolidation of absolutely necessary skills in a biochemistry laboratory.
4. Enhancement of analytical thinking in the programming, development and accomplishment of an experimental model in vivo or in vitro.
5. Use of theoretical knowledge of intercellular signaling in solving practical laboratory problems.

**5. Evaluation**

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

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.