

## Cardiovascular Physiology and Electrophysiology Book Lecture

CTS/KSL 481180-FS2023-0 and -1

**Course Description:** The main objective of these book lectures is to acquire the basic physiological and electrophysiological concepts concerning the heart. Based on the reading of the book chapters, the different aspects concerning the function of the heart will be introduced and discussed during regular sessions to better understand how the heart works. Book: *Medical Physiology* from Walter F. Boron and Emile L. Boulpaep

**1 ECTS:** if attend all the book lectures (21.Feb.23, 7.Mar.23, 21.Mar.23, 4.Apr.23, 18.Apr.23, and 2.May.23) and pass oral exam.

**0.5 ECTS:** if attend only book lectures related to the “physiological part” (21.Feb.23, 7.Mar.23, and 21.Mar.23) and pass oral exam.

**0.5 ECTS:** if attend only book lectures related to the “electrophysiological part” (4.Apr.23, 18.Apr.23, and 2.May.23) and pass oral exam.

**Course start date:** 21.02.2023

**Registration:** Please register via the [CTS/KSL platform](#), root no. 481180-FS2023-0 for full course (1 ECTS) or 481180-FS2023-1 for parts of the course (0.5 ECTS), either “physiological part” or “electrophysiological part”. If you are registering for only part of the course, please email [jean-sebastien.rougier@unibe.ch](mailto:jean-sebastien.rougier@unibe.ch) to let him know which part you are taking (“physiological part” or “electrophysiological” part).

**Limit:** Min. 3 and max. 5 participants

Course Registration Deadline: 01.02.2023

Exam Registration Deadline: 01.02.2023

**Exam:** Tuesday, 30.05.2023, Gertrud-Woker-Strasse 5, room 001, 14:00h

Date (Tuesdays, 14:00-16:00h)	Lecturer	Topic	Room
21.02.2023	PD Dr. Jean-Sébastien Rougier	Cellular Physiology of Skeletal, Cardiac, and Smooth Muscle.	Gertrud-Woker-Strasse 5, room 001 (Gewo5_001)
07.03.2023	PD Dr. Jean-Sébastien Rougier	Organization of the cardiovascular system.	Gewo5_001
21.03.2023	PD Dr. Jean-Sébastien Rougier	The heart as a pump.	Gewo5_001
04.04.2023	PD Dr. Jean-Sébastien Rougier	Electrophysiology of the Cell Membrane.	Gewo5_001
18.04.2023	PD Dr. Jean-Sébastien Rougier	Electrical Excitability and Action Potential.	Gewo5_001
02.05.2023	PD Dr. Jean-Sébastien Rougier	Cardiac electrophysiology and the electrocardiogram.	Gewo5_001
30.05.2023, 14:00-17:00h	PD Dr. Jean-Sébastien Rougier	Oral exam	Gewo5_001

**For further information, please contact:** [jean-sebastien.rougier@unibe.ch](mailto:jean-sebastien.rougier@unibe.ch)