

Medical Centre of Postgraduate Education, Warsaw

Thursday May 13th

- 17:00 - Registration
- 19:00 - Welcome Speech
- 19:15 - Welcome Reception

Friday May 14th

- 09:00-09:50 - **Mark Boyett** (Leeds, UK)
“Generation of the sinus rhythm”
- 09:50-10:40 - **Bohdan Lewartowski** (Warsaw, Poland)
“Excitation contraction coupling – Phenomenology of the whole cell level”
- 10:40-11:10 - **Coffee Break**
- 11:10-12:00 - **David Eisner** (Manchester, UK)
“Excitation contraction coupling-subcellular signalling”
- 12:00-12:40 - **Lunch**
- 12:40-14:00 - **Poster Viewing (informal, group A man their posters)**
- 14:00-15:30 - **Group A** - (5 groups x 5 students) Practical Session
Group B - (5 groups x 5 students) Meet the Expert
(see attached table for details)
- 15:30-15:45 - **Coffee Break**
- 15:45-17:15 - **Group A** - Meet the Expert
Group B - Practical Session

Saturday May 15th

- 09:00-09:50 - **Alex Verkhatsky** (Machester, UK)
“Endoplasmic reticulum calcium homeostasis: An overview”
- 09:50-10:40 - **Susan Wray** (Liverpool, UK)
“Excitation-contraction coupling in smooth muscle cells and regulation of the vascular tone”
- 10:40-11:10 - **Coffee Break**
- 11:10-12:00 - **Maria Fiora Gallitelli** (Halle, Germany)
“Measurements of total calcium (electron probe microanalysis) in cardiac cell compartments are needed to understand calcium binding”
- 12:00-12:50 - **Barbara Casadei** (Oxford, UK)
“Nitric oxide and the regulation of heart rate and contractility”
- 12:50-13:30 - **Lunch**
- 13:30-14:50 - **Poster Viewing (informal, group B man their posters)**
- 14:50-16:20 - **Group A** – Practical Session
Group B – Open discussion on fraud, publication and ethics.
- 16:20-16:35 - **Coffee Break**
- 16:35-18:05 - **Group A** – Open discussion on fraud, publication and ethics.
Group B – Practical Session
- 18:40 - Departure for ‘Workshop Banquet’

Sunday May 16th

09:30-10:00 - **Oral presentation of three best posters**

10:00-10:50 - **Gerrit Isenberg** (Halle, Germany)

“Cardiac arrhythmias and the role of stretch activated channels”

10:50-11:10 - **Coffee Break**

11:10-12:00 - **Gerd Hasenfuss** (Goettingen, Germany)

“Calcium cycling in failing heart”

12:00-12:50 - **Andrzej Beresewicz** (Warsaw, Poland)

“Signal transduction mechanism of ischemic preconditioning”

12:50-14:30 - **Final discussion, Lunch and Departure**

Laboratory Sessions:

Each participant will choose up to 3 lab sessions in order of preference, out of which the participant will be allocated to one different session for each day of the workshop.

- 1) Cardiomyocyte isolation technique.
- 2) Measuring whole cell currents, cell shortening, and calcium transients (INDO 1)
- 3) Measuring cellular membrane potentials, cell shortening and the effects of rate of stimulation and some pharmacological interventions (caffeine spritz etc.)
- 4) Langendorff guinea-pig – measuring left ventricular pressure, coronary flow and oxygen consumption (force-frequency relationship, Frank-Starling curve, assessment of coronary endothelium-dependent and –independent vasodilation, basic pharmacology).
- 5) Technique of blood sampling from the rat, technique of in vivo coronary artery ligation to produce infarction, histochemical technique of infarct size measurement of rat heart.

Group Allocations

Friday May 14th – 14:00-17:15

Group A 25 Students – Practical Session	Group B 25 Students – Meet the Expert
5 students – laboratory session 1 5 students – laboratory session 2 5 students – laboratory session 3 5 students – laboratory session 4 5 students – laboratory session 5	5 students – Mark Boyett 5 students – Alex Verkh ratsky 5 students – Maria Fiora Gallitelli 5 students – Barbara Casadei 5 students – Gerrit Isenberg

15:30-15:45

Coffee Break

Group A 25 Students – Meet the Expert	Group B 25 Students – Practical Session
5 students – Mark Boyett 5 students – Alex Verkh ratsky 5 students – Maria Fiora Gallitelli 5 students – Barbara Casadei 5 students – Gerrit Isenberg	5 students – laboratory session 1 5 students – laboratory session 2 5 students – laboratory session 3 5 students – laboratory session 4 5 students – laboratory session 5

Saturday May 15th – 14:50-18:05

Group A 25 Students – Practical Session	Group B 25 Students – Open Discussion
5 students – laboratory session 1 5 students – laboratory session 2 5 students – laboratory session 3 5 students – laboratory session 4 5 students – laboratory session 5	25 Students to have open discussion on fraud, publication and ethics with David Eisner, Susan Wray, and Gerd Hasenfuss

16:20-16:35

Coffee Break

Group A 25 Students – Open Discussion	Group B 25 Students – Practical Session
25 Students to have open discussion on fraud, publication and ethics with David Eisner, Susan Wray, and Gerd Hasenfuss	5 students – laboratory session 1 5 students – laboratory session 2 5 students – laboratory session 3 5 students – laboratory session 4 5 students – laboratory session 5

