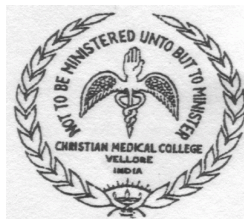


**Christian Medical College
Vellore 632 002**



**WORKSHOP IN EXPERIMENTAL
PHYSIOLOGY**

September 3rd-5th , 2008

**Venue : Department of Physiology,
CMC Bagayam Campus,
Vellore 632002
Tamil Nadu**

The program includes lectures and hands on practical sessions with input from faculty from CMC Vellore and IIT Madras

The Departments of Physiology and Bioengineering CMC Vellore are happy to announce a Workshop on Experimental Physiology to be held on September 3rd – 5th 2008

September 3rd - Day 1	
Session 1 8 am–1 pm	<ul style="list-style-type: none"> Studies in solute transport across the frog skin. Ionic currents across the frog skin will be recorded under voltage-clamp conditions in a mini Ussing's chamber. This preparation is an equivalent of renal epithelium.
Session 2 2 pm–6 pm	<ul style="list-style-type: none"> Demonstration of the force frequency relation in the frog heart using force transducers in a frog ventricular strip. Recording of intracellular action potentials in the frog heart using suction electrodes. Rhythm generating mechanisms in the frog heart will be demonstrated.
September 4th - Day 2	
Session 3 8 am–1 pm	<ul style="list-style-type: none"> Demonstration of continuous recording of ECG, BP and respiration in rats
Session 4 2 pm–6 pm	<ul style="list-style-type: none"> Human ECG and cardiac autonomic tests <ul style="list-style-type: none"> Blood flow analysis using Pulse Plethysmography
September 5th - Day 3	
Session 5 8 am–1 pm	<ul style="list-style-type: none"> Experiments on human skeletal muscle. These experiments are analogous to experiments done currently on the frog skeletal muscle.
Session 6 2 pm–6 pm	<ul style="list-style-type: none"> Motor Nerve conduction velocity EMG analysis

This workshop is meant for post graduates and junior faculty from the departments of Physiology, Biochemistry, Pharmacology and others interested in basic science research.

REGISTRATION

Please note that in order to ensure that all participants benefit sufficiently from the practical experiments, the number of participants is restricted.

The registration fee will be Rs 2000/- for post graduates and Rs 3000/- for faculty, payable by demand draft drawn in favour of CMC Vellore Association.

*Registration fee after **August 15th** will be Rs. 2200 and Rs 3200 respectively.*

As the number of participants is limited kindly contact us by email/phone to confirm registration before sending us your demand draft.

Each session will consist of a short introduction explaining the use of the equipment and the principles behind the experiment. This will be followed by hands on training in small groups.

The workshop will introduce the use of computers in physiological measurement. All participants will be given practical training in computer-based experiments on animal tissues and human volunteers . Equipment used in these experiments (except the computer) will be made available as a low cost kit. The kit will also be available in a modular structure.

Lunch will be provided for all participants between 1:00 pm and 2:00 pm on all days of the workshop.

Participants are free to spend time in the respective departments on September 6th (the day following the workshop) during which no organized sessions are planned.

ACCOMMODATION

Vellore has several comfortable hotels for the participants to stay. The approximate costs will be:

Hotel	Single	Single AC	Double	Double AC	Phone
Avana Inn	700	950	800	1050	2228953
Surabhi international	~	1150	850	1250	2216399
Riverview	500	750	650	1100	2222349
Grand Krishna	~	2000	~	3000	2258189
Baby Residency	~	~	650	750	2212285
Darling Residency	~	1150	~	1250	2213001
Hotel Ganga	~	~	550	700	2223160
Mount Paradise	350	500	450	650	2228631
Hotel Sams	~	~	368	~	2245327
Lingam Residency	~	~	350	575	2220971
Hotel Solai	150	~	252	520	2222606
Koona Residency	~	200	~	~	2211218
Kumaran Millenium	~	~	475	605	2245500
Gayatri Annexe	140	200	~	~	2227714
Arunachalam lodge	~	~	350	650	2210979
Hotel Ranga	~	~	430	600	2223034

Taxes are levied extra.

Please contact us for any clarification. Participants are requested to contact the respective hotels directly for accommodation.

Co-Ordinators:

Dr. Sathya Subramani, Dept. of Physiology
Dr. Suresh Devasahayam, Dept. of Bioengineering

Contact Details

E-mail: physio@cmcvellore.ac.in

Tel. Ph.No.0416-2284268

<http://www.cmcvellore.res.in/physiology>

The techniques planned are as follows:

Animal studies

- Force recording from an isolated frog ventricular strip using isotonic force transducers.
- Recording of Action Potentials in the frog heart using suction electrodes.
- Voltage Clamp/ Current measurement across frog skin in an Ussing Chamber type apparatus.
- Continuous recording of ECG, Blood Pressure and respiration in the whole animal : the rat model.

Human studies

- Pulse plethysmography
- Cardiac Autonomic function tests
- Experiments on human skeletal muscle (twitch, summation, length dependence)
- Compound Muscle Action Potential, EMG
- Nerve conduction velocity

REGISTRATION FORM

Kindly fill in the following sheet and send it back to Physiology Department at the *earliest*.

Name in full (Block letters) Dr/Mr/Ms

Educational Qualification-Degree/Diploma/PG

Professional affiliation -----

Postal address -----

Tel. Ph. No. (Res./Off.)-----

E mail -----

Please attach a page of your professional experience and publications.

Date-

Signature